



Disconnect Switches

Non-fusible, Fusible, Enclosed, Cam switches

Power and productivity
for a better world™



Non-fusible • Fusible

Disconnect switches



Disconnect Switches

- Compact, heavy duty

SwitchLine

Non-fusible disconnect switches1.1 - 1.54

PowerLine

Fusible disconnect switches2.1 - 2.39

SafeLine

Enclosed disconnect switches3.1 - 3.12

Cam switches

OM, ON, OL cam switches4.1 - 4.54

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SwitchLine Non-fusible Disconnect switches

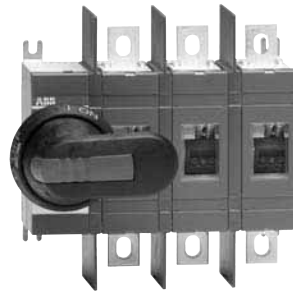


SwitchLine

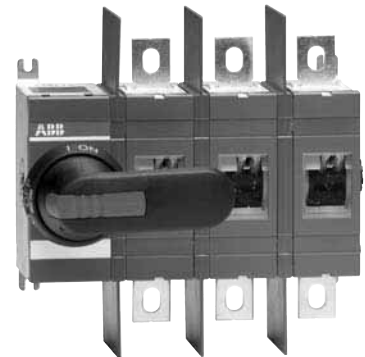
Non-fusible disconnect switches

Compact, Heavy duty

16A – 2000A, 600V



OT200U



OT400U

ABB SwitchLine includes 16 different amperage sizes from 16A to 2000A. The basic construction provides flexibility, safety, and high performance in an extremely compact size. ABB SwitchLine is a perfect choice for all switching applications from industrial motor control to construction safety switches.

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Overview

Non-fusible disconnect switches

OT16F3 – OT100F3



OT16F3 OT25F3 OT40F3



OT63F3 OT80F3



OT30F3 OT60F3 OT100F3

Catalog number	3 pole	OT16F3	OT25F3	OT40F3	OT63F3	OT80F3	OT30F3	OT60F3	OT100F3
General purpose amp rating	A	20	30	40	60	80	30	60	100
Catalog reference	Page #	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11
Approvals ^①									
	2 pole	—	—	—	—	—	—	—	—
	3 pole	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
Technical ratings									
CSA,UL®									
Max operating voltage	V	600	600	600	600	600	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC
Max horsepower rating									
Three phase									
	208V HP	3	7.5	10	15	20	10	20	25
	240V HP	5	7.5	10	15	20	10	20	30
	480V HP	10	15	20	30	40	20	40	50
	600V HP	10	20	25	30	40	30	40	50
Single phase									
	120V HP	1	1.5	2	2	2	2	3	5
	240V HP	2	3	5	7.5	10	5	7.5	15
Technical ratings									
IEC^②									
Rated insulation and operational voltage, AC20 and DC20 ^③	V	750	750	750	750	750	750	750	750
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	25	32	40	63	80	40	63	115
AC 20/DC 20 enclosed	A	25	32	40	63	80	40	63	115
AC 21A ≤ 500V	A	16	25	40	63	80	40	63	100
690V	A	16	25	40	63	80	40	63	100
Rated operational power AC23									
400/415V	kW	7.5	9	11	22	37	15	18.5	37
690V	kW	7.5	9	11	15	18.5	15	15	37
Physical characteristics									
Weight ^④ 3 pole	Kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36
Dimension 3 pole									
	H mm	68	68	68	91	91	100	100	100
	W mm	35	35	35	53	53	70	70	70
	D mm	56	56	56	72	72	75	75	75
Accessories									
Terminal lug kit		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Terminal shroud		•	•	•	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•	•
Handle CSA/UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		•	•	•	•	•	•	•	•
Pistol		•	•	•	•	•	•	•	•
Conversion kits									
6 pole		•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•
Bypass		•	•	•	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	—	—	—

• = Available
— = Not available

CSA approved, UL listed, IEC rated, CE marked

① CSA 22.2 No.4 (UL98) —CSA File #LR58077, UL File # E101914, CSA 22.2 No. 14 (UL508) —CSA File #LR58247, UL File # E63822

② For complete technical information please see page 1.28 – 1.35.

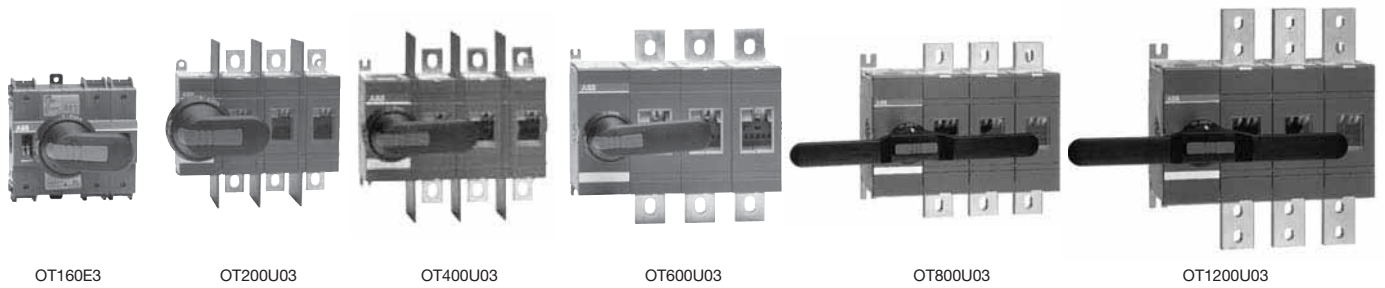
③ 1000V, IEC 408.

④ Switch only

Overview

Non-fusible disconnect switches

OT160E3 – OETL-NF2000



Catalog number	3 pole	OT160E3	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
General purpose amp rating	A	125	200	400	600	800	1200	1600	2000
Catalog reference	Page #	1.11	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Approvals^①									
	2 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	3 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4 IEC	CSA C22.2 No.4 IEC
Technical ratings									
CSA, UL^②									
Max operating voltage	V	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	480
Max horsepower rating									
Three phase									
200 – 208V	HP	30	60	100	150	200	—	—	—
240V	HP	40	75	125	200	250	—	—	—
480V	HP	75	150	250	450	500	—	—	—
600V	HP	100	200	350	500	500	—	—	—
Single phase									
120V	HP	7.5	—	—	—	—	—	—	—
240V	HP	20	—	—	—	—	—	—	—
Technical ratings									
IEC^③									
Rated insulation and operational voltage. AC20 and DC20 ^④	V	750	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	200	250	400	800	1000	1600	2500	2500
AC 20/DC 20 enclosed	A	160	250	400	800	1000	1600	2300	2300
AC 21A 500V	A	160	250	400	800	1000	1600	2500	2500
690V	A	160	250	400	800	1000	1600	2500	2500
Rated operational power AC23									
400/415V	kW	75	140	220	400	450	560	400	400
690V	kW	75	240	390	800	800	800	—	—
Physical characteristics									
Weight ^④	3 pole	Kg	1.1	1.2	2.2	5.2	15.2	37	37
Dimension	3 pole	H mm	127	170	220	250	372	636	636
		W mm	126	170	221	266	334	468	468
		D mm	74	84	105	139	141	271	271
Accessories									
Terminal lug kit		Integral	OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	DSK8TL	DSK8TM
Terminal shroud		•	•	•	•	•	•	—	—
Auxiliary contact		•	•	•	•	•	•	•	•
Handle CSA/UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		—	—	—	—	—	—	—	—
Pistol		•	•	•	•	•	•	•	•
Conversion kits									
6 pole		•	•	•	•	•	•	—	—
Transfer		•	•	•	•	•	•	—	—
Bypass		•	•	•	•	•	•	—	—
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	•	•	•	•	•	•	•

• = Available
— = Not available

CSA approved, UL listed, IEC rated, CE marked

① CSA 22.2 No.4 (UL98) —CSA File #LR58077, UL File # E101914 , CSA 22.2 No. 14 (UL508) —CSA File #LR58247, UL File # E63822

② For complete technical information please see page 1.28 – 1.35.

③ 1000V, IEC 408.

④ Switch only

General information : 1.1 – 1.7	Complete Non-fusible switches: 1.8 – 1.9	Components: 1.10 – 1.26	Technical information: 1.28– 1.35	Dimensions: 1.36 – 1.53
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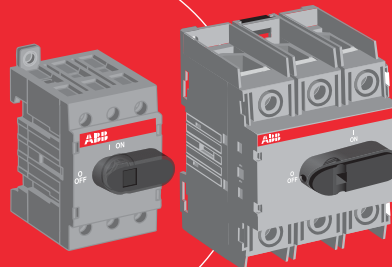
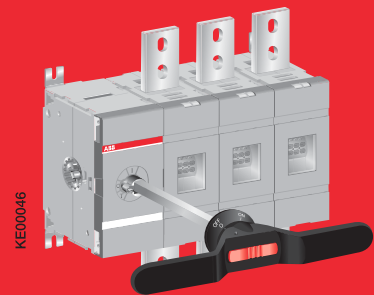
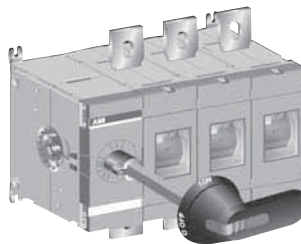
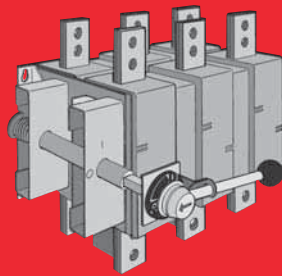
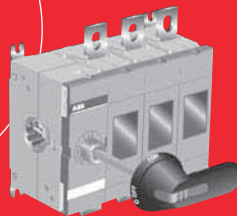
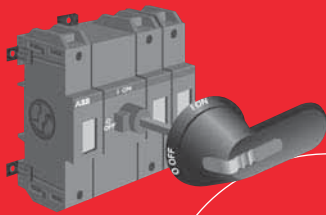


Enhanced range of non-fusible disconnect switches

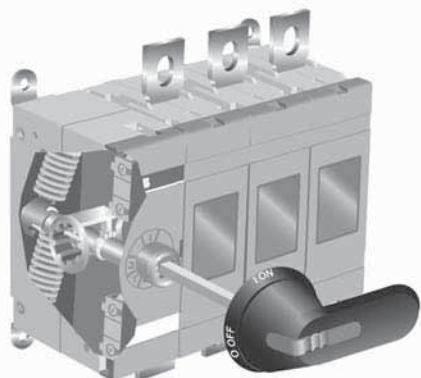
From 16 to 2000 A, 600 V

The non-fusible disconnect switches are suitable for diverse applications, in motor control centers, in switchboards and as main switches in various equipments and machines. From single to 8-poles front operated switches with pistol handle or direct mounted handle. For installation in enclosures, side operated switches and combination switches for change-over, bypass, reversing etc.

- Mountable on DIN rails or base plates and on the door, both by snap-on and screw fitting
- Snap-on mounting of accessories



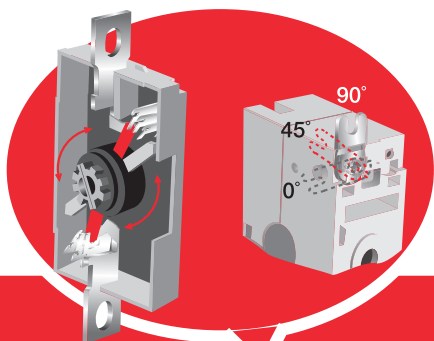
The most compact disconnect (isolation) solution



Optimally designed, the OT disconnect switch offers an advanced and compact solution, providing you with added value.

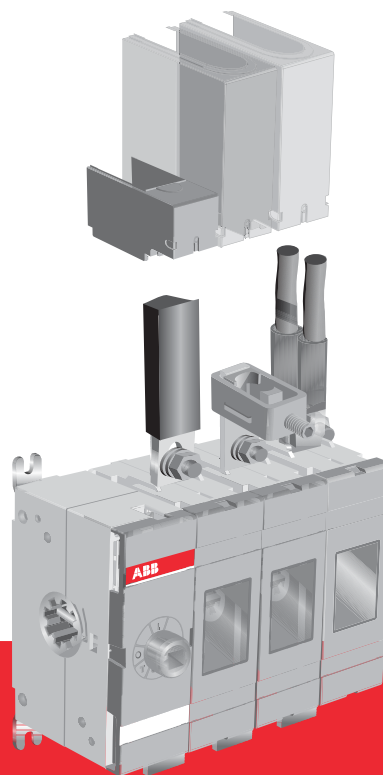
- The new double-sided spring construction in combination with fewer components made an innovative and compact design of the operation mechanism possible.
- The uniquely short current path enabled a small-sized contact construction.

High performance despite the small size



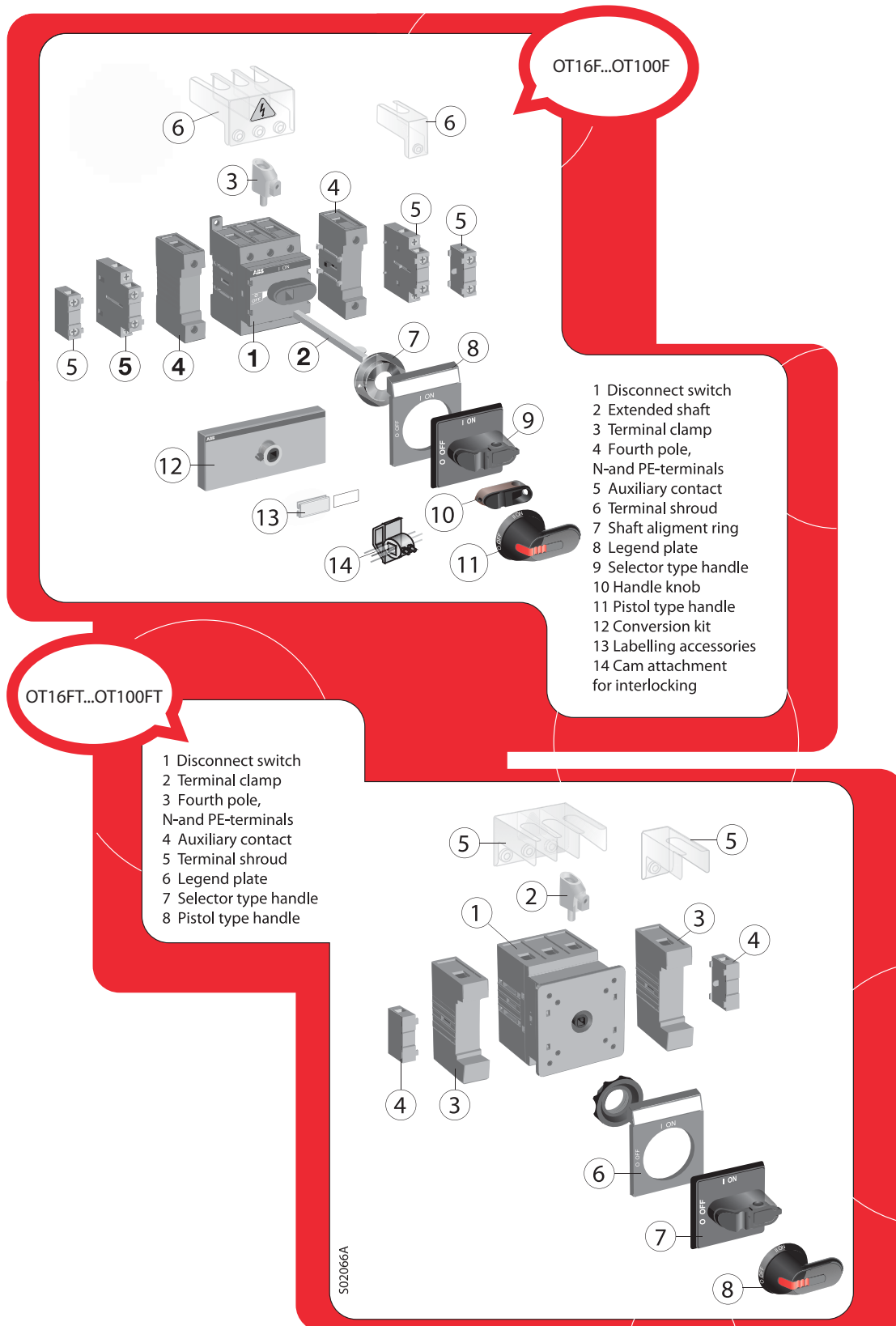
The powerful new construction, with its quick-make and quick-break operation features and two contact points instead of one, adds value to and enhances the performance of the disconnect switches.

- The OT range offers you improved power ratings, the highest on the market. Full I ratings can be used both in open air and in enclosures, without having to derate or enlarge the box.
- User-friendly and flexible, the OT disconnect switch provides you with full horse power ratings for all the voltages, even up to 600 V.

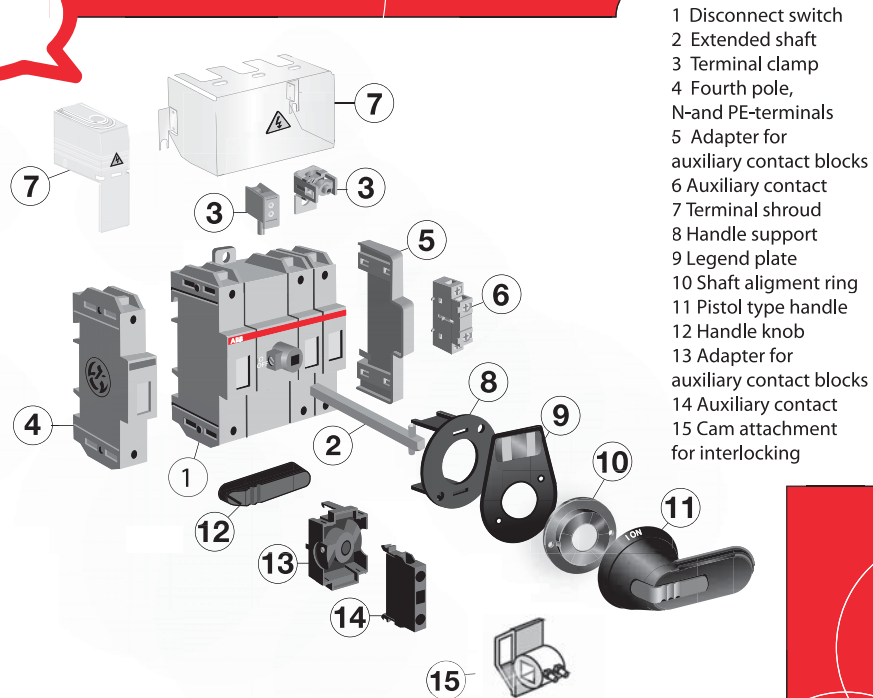


The OT disconnect switch is easy to use and a snap to install according to your choice: horizontally or vertically - even in the ceiling! The adjustable mounting feet allow both top and side mounting of the switch.

ABB's disconnect switch range meets disconnect and isolation requirements more effectively than ever, maximizing the benefits and optimizing your use of assets.

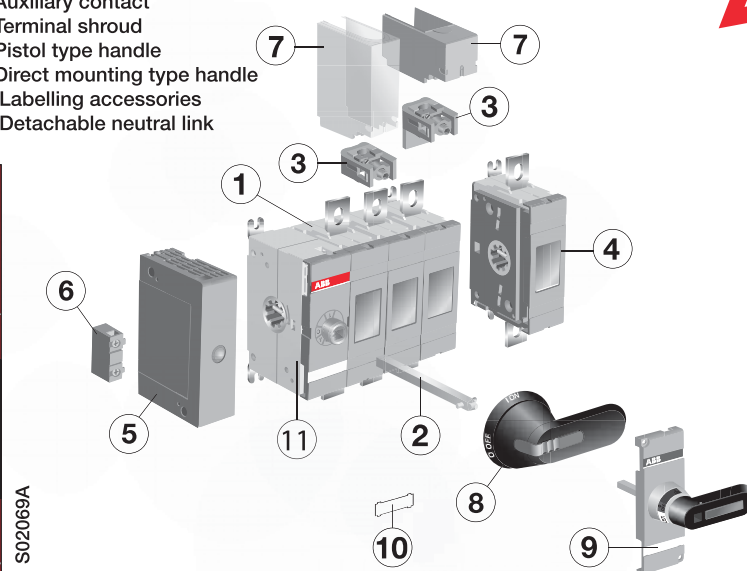


OT160



- 1 Disconnect switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Fourth pole, N-and PE-terminals
- 5 Adapter for auxiliary contact blocks
- 6 Auxiliary contact
- 7 Terminal shroud
- 8 Handle support
- 9 Legend plate
- 10 Shaft alignment ring
- 11 Pistol type handle
- 12 Handle knob
- 13 Adapter for auxiliary contact blocks
- 14 Auxiliary contact
- 15 Cam attachment for interlocking

- 1 Disconnect switch
- 2 Extended shaft
- 3 Terminal clamp
- 4 Fourth pole
- 5 Module for auxiliary contact
- 6 Auxiliary contact
- 7 Terminal shroud
- 8 Pistol type handle
- 9 Direct mounting type handle
- 10 Labelling accessories
- 11 Detachable neutral link



OT200... 1200

S02069A



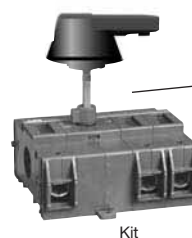
Complete switches

Non-fusible disconnect switches

16A – 2000A, 600V, 3 pole^①

Each kit includes:

- 1 three pole^① switch
- 1 handle
- 1 shaft



Kit

- handle
- shaft^②
- switch
- terminal lug kit^③

Complete switches, base & DIN rail mounted, selector handles

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase			Three phase				
		120V	240V	200V – 208V	240V	480V	600V		
20	14	1	2	3	5	10	10	OT16F3S	
30	14	1.5	3	7.5	7.5	15	20	OT25F3S	
40	14	2	5	10	10	20	25	OT40F3S	
60	14	2	7.5	15	15	30	30	OT63F3S	
80	14	2	10	20	20	40	40	OT80F3S	
30	4	2	5	10	10	20	30	OT30F3S	
60	4	3	7.5	20	20	40	40	OT60F3S	
100	4	5	15	25	30	50	50	OT100F3S	

Complete switches, base & DIN rail mounted, pistol handles[®]

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase		Three phase					
		120V	240V	200V – 208V	240V	480V	600V		
20	14	1	2	3	5	10	10	OT16F3P	
30	14	1.5	3	7.5	7.5	15	20	OT25F3P	
40	14	2	5	10	10	20	25	OT40F3P	
60	14	2	7.5	15	15	30	30	OT63F3P	
80	14	2	10	20	20	40	40	OT80F3P	
30	4	2	5	10	10	20	30	OT30F3P	
60	4	3	7.5	20	20	40	40	OT60F3P	
100	4	5	15	25	30	50	50	OT100F3P	
125	4	7.5	20	30	40	75	100	OT160E3P	
200	4	—	40	60	75	150	200	OT200U03P [®]	
400	4	—	—	100	125	250	350	OT400U03P [®]	
600	4	—	—	150	200	400	500	OT600U03P [®]	
800	4	—	—	200	250	500	500	OT800U03P [®]	
1200	4	—	—	—	—	—	—	OT1200U03P [®]	
1600	4	—	—	—	—	—	—	OETL-NF1600P [®]	
2000	4	—	—	—	—	—	—	OETL-NF2000P [®]	

Complete switches, door mounted

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Complete switches catalog number	List price
		Single phase		Three phase					
		120V	240V	200V – 208V	240V	480V	600V		
20	14	1	2	3	5	10	10	OT16FT3S	
30	14	1.5	3	7.5	7.5	15	20	OT25FT3S	
40	14	2	5	10	10	20	25	OT40FT3S	
60	14	2	7.5	15	15	30	30	OT63FT3S	
80	14	2	10	20	20	40	40	OT80FT3S	
30	4	2	5	10	10	20	30	OT30FT3S	
60	4	3	7.5	20	20	40	40	OT60FT3S	
100	4	5	15	25	30	50	50	OT100FT3S	
30	4	2	5	10	10	20	30	OT30FT3P	
60	4	3	7.5	20	20	40	40	OT60FT3P	
100	4	5	15	25	30	50	50	OT100FT3P	
125	4	7.5	20	30	40	75	100	OT160ET3	

① Four poles are available — please refer to accessories page.

② Shaft is not required with door mounted switch, except OT160ET3.

③ Terminal lug kit are sold separately, see accessories page 1.21.

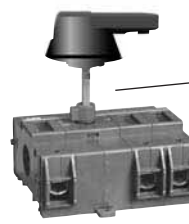
④ Maximum operating voltage 480V.

Components list for non-fusible disconnect switches 16A – 2000A, 600V, 3 pole^①



Each kit includes:

- 1 three pole^① switch
- 1 handle
- 1 shaft



Kit

handle^②

shaft

switch

terminal lug kit^③

Components for base & DIN rail mounted switches with selector handles

Complete switches catalog number	Switch	Handle ^②				Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^④ (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16F3S	OT16F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	190 – 205	180	OXS6X180	#18 – #8	Cu	Integral
OT25F3S	OT25F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	190 – 205	180	OXS6X180	#18 – #8	Cu	Integral
OT40F3S	OT40F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	190 – 205	180	OXS6X180	#18 – #8	Cu	Integral
OT63F3S	OT63F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	205 – 220	180	OXS6X180	#14 – #1	Cu	Integral
OT80F3S	OT80F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	205 – 220	180	OXS6X180	#14 – #1	Cu	Integral
OT30F3S	OT30F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	212.5 – 215	180	OXS6X180	#14 – #4	Cu	Integral
OT60F3S	OT60F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	212.5 – 215	180	OXS6X180	#14 – #4	Cu	Integral
OT100F3S	OT100F3	1,3R,12	O/I & OFF/ON	Y	OHBS2AJ	212.5 – 215	180	OXS6X180	#8 – 1/0	Cu	Integral

Components for base & DIN rail mounted switches with pistol handles

Complete switches catalog number	Switch	Handle ^②				Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^④ (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16F3P	OT16F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	175 – 190	170	EXP6X170	#18 – #8	Cu	Integral
OT25F3P	OT25F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	175 – 190	170	EXP6X170	#18 – #8	Cu	Integral
OT40F3P	OT40F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	175 – 190	170	EXP6X170	#18 – #8	Cu	Integral
OT63F3P	OT63F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	195 – 205	170	EXP6X170	#14 – #1	Cu	Integral
OT80F3P	OT80F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	195 – 205	170	EXP6X170	#14 – #1	Cu	Integral
OT30F3P	OT30F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	197.5 – 205	170	EXP6X170	#14 – #4	Cu	Integral
OT60F3P	OT60F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	197.5 – 205	170	EXP6X170	#14 – #4	Cu	Integral
OT100F3P	OT100F3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	197.5 – 205	210	EXP6X210	#8 – 1/0	Cu	Integral
OT160E3P	OT160E3	1,3R,12	O/I & OFF/ON	Y	OHB65J6	185 – 215	210	EXP6X210	#8 – 1/0	Cu	Integral
OT200U03P	OT200U03	1,3R,12	O/I & OFF/ON	Y	OHB80J6	220 – 320	210	EXP6X210	#4 – 300 kcmil	Cu/Al	OZXA-200
OT400U03P	OT400U03	1,3R,12	O/I & OFF/ON	Y	OHB145J12	260 – 370	280	EXP12X280	#2 – 600 kcmil	Cu/Al	OZXA-400
OT600U03P	OT600U03	1,3R,12	O/I & OFF/ON	Y	OHB145J12	260 – 370	280	EXP12X280	(2)#2 – 600 kcmil	Cu/Al	OZXA-800
OT800U03P	OT800U03	1,3R,12	O/I & OFF/ON	Y	OHB274J12	295 – 390	280	EXP12X280	(4)#2 – 600 kcmil	Cu/Al	OZXA-1200
OT1200U03P	OT1200U03	1,3R,12	O/I & OFF/ON	Y	OHB274J12	295 – 390	280	EXP12X280	(4)#2 – 600 kcmil	Cu/Al	OZXA-1200
OETL-NF1600P	OETL-NF1600	1,3R,4,4X,12	OFF/ON	—	YASDA-8	340 – 585	325	EXP12X325	(4)#1/0 – 750 kcmil	Cu/Al	OZXA-28
OETL-NF2000P	OETL-NF2000	1,3R,4,4X,12	OFF/ON	—	YASDA-8	340 – 585	325	EXP12X325	(6)#1/0 – 750 kcmil	Cu/Al	OZXA-28/2

Components for door mounted switches

Complete switches catalog number	Switch	Handle ^②				Shaft			Terminal lugs ^③		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth (mm)	Length (mm)	Catalog number	Wire size	Wire type	Catalog number
OT16FT3S	OT16FT3	1,3R,12	O/I & OFF/ON	—	OHBS2PJ	No shaft required			#18 – #8	Cu	Integral
OT25FT3S	OT25FT3	1,3R,12	O/I & OFF/ON	—	OHBS2PJ	No shaft required			#18 – #8	Cu	Integral
OT40FT3S	OT40FT3	1,3R,12	O/I & OFF/ON	—	OHBS2PJ	No shaft required			#18 – #8	Cu	Integral
OT63FT3S	OT63FT3	1,3R,12	O/I & OFF/ON	—	OHBS2RJ	No shaft required			#14 – #1	Cu	Integral
OT80FT3S	OT80FT3	1,3R,12	O/I & OFF/ON	—	OHBS2RJ	No shaft required			#14 – #1	Cu	Integral
OT30FT3S	OT30FT3	1,3R,12	O/I & OFF/ON	—	OHBS2RJ	No shaft required			#14 – #4	Cu	Integral
OT60FT3S	OT60FT3	1,3R,12	O/I & OFF/ON	—	OHBS2RJ	No shaft required			#14 – #4	Cu	Integral
OT100FT3S	OT100FT3	1,3R,12	O/I & OFF/ON	—	OHBS2RJ	No shaft required			#8 – #1/0	Cu	Integral
OT30FT3P	OT30FT3	1,3R,12	O/I & OFF/ON	—	OHB65J6	Include OHZX6 adapter			#14 – #4	Cu	Integral
OT60FT3P	OT60FT3	1,3R,12	O/I & OFF/ON	—	OHB65J6				#14 – #4	Cu	Integral
OT100FT3P	OT100FT3	1,3R,12	O/I & OFF/ON	—	OHB65J6				#8 – 1/0	Cu	Integral
OT160ET3	OT160ET3-2	1,3R,12	O/I & OFF/ON	—	OHB65J6	—	130	EXP6X130	#8 – 1/0	Cu	Integral

①Other pole configurations available; please see individual components.

②All handles are black and accept three padlocks. For other handles please see individual components.

③Terminal lug kit for OT/OETL switches are sold separately, see accessories page 1.21.

④Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.



16A – 80A

Manual motor controllers

Base & DIN rail mounted, door mounted

For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft^①



OT40F3



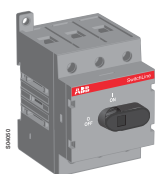
OXF6X210



OHB65J6



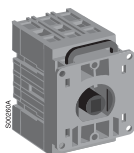
OT16-OT40F3



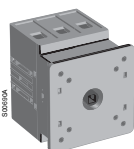
OT63-80F3



OT16F6



OT16-OT40FT3



OT63-OT80FT3

Base and DIN rail mounted, 16 – 80 Amp switches, 600V, 3 pole^②

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
20	14	1	2	3	5	10	10	#18 – #8	Cu	OT16F3	
30	14	1.5	3	7.5	7.5	15	20			OT25F3	
40	14	2	5	10	10	20	25			OT40F3	
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	OT63F3	
80	14	2	10	20	20	40	40			OT80F3	

16 – 80 Amp switches- 600V, 6 pole

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
20	14	1	2	3	5	10	10	#18 – #8	Cu	OT16F6	
30	14	1.5	3	7.5	7.5	15	20			OT25F6	
40	14	2	5	10	10	20	25			OT40F6	
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	OT63F6	
80	14	2	10	20	20	40	40			OT80F6	

16 – 80 Amp switches- 600V, 3 pole change-over switches

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower ratings						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
20	14	1	2	3	5	10	10	#18 – #8	Cu	OT16F3C	
30	14	1.5	3	7.5	7.5	15	20			OT25F3C	
40	14	2	5	10	10	20	25			OT40F3C	
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	OT63F3C	
80	14	2	10	20	20	40	40			OT80F3C	

Door mounted, 16 – 80 Amp switches, 600V, 3 pole^{①②}

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
20	14	1	2	3	5	10	10	#18 – #8	Cu	OT16FT3	
30	14	1.5	3	7.5	7.5	15	20			OT25FT3	
40	14	2	5	10	10	20	25			OT40FT3	
60	14	2	7.5	15	15	30	30	#14 – #1	Cu	OT63FT3	
80	14	2	10	20	20	40	40			OT80FT3	

① Door mounted switches do not require shafts

② A snap on fourth pole may be added — please reference accessories pg 1.14.

30A – 125A

Non-fusible disconnect switches

Base & DIN rail mounted, door mounted



For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft^①



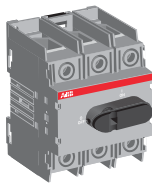
OT160E3



OXP6X210



OHB65J6



OT100F3

Base and DIN rail mounted, 30 – 100 Amp switches, 600V, 3 pole^②

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase				Wire size	Wire type		
		120V	240V	200V	240V	480V	600V				
30	4	2	5	10	10	20	30	#14 – #4	Cu	OT30F3	
60	4	3	7.5	20	20	40	40	#14 – #4		OT60F3	
100	4	5	15	25	30	50	50	#8 – 1/0		OT100F3	

30 – 100 Amp switches- 600V, 6 pole

CSA general purpose amp rating	CSA standard C22.2 No.							Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
30	4	2	5	10	10	20	30	#14 – #4	Cu	OT30F6	
60	4	3	7.5	20	20	40	40	#14 – #4		OT60F6	
100	4	5	15	25	30	50	50	#8 – 1/0		OT100F6	

30 – 100 Amp switches- 600V, 3 pole change-over switches

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower ratings						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
30	4	2	5	10	10	20	30	#14 – #4	Cu	OT30F3C	
60	4	3	7.5	20	20	40	40	#14 – #4		OT60F3C	
100	4	5	15	25	30	50	50	#8 – 1/0		OT100F3C	

Door mounted, 30 – 100 Amp switches, 600V, 3 pole^{①②}

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
30	4	2	5	10	10	20	30	#14 – #4	Cu	OT30FT3	
60	4	3	7.5	20	20	40	40	#14 – #4		OT60FT3	
100	4	5	15	25	30	50	50	#8 – 1/0		OT100FT3	

Base & DIN rail mounted, 125 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase							
		120V	240V	200V	240V	480V	600V	Wire size	Wire type		
2 pole											
125	4	—	—	—	—	—	—	#8 – 1/0	Cu	OT160E2	
3 pole											
125	4	7.5	20	30	40	75	100	#8 – 1/0	Cu	OT160E3	

125 Amp Door mounted switch, 600V, 3 pole

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating						Terminal lugs		Catalog number	List price
		Single phase		Three phase				Wire size	Wire type		
		120V	240V	200V	240V	480V	600V				
125	4	7.5	20	30	40	75	100	#8 – 1/0	Cu	OT160ET3	

① Door mounted switches do not require shafts, except OT160ET3-2

② A snap on fourth pole may be added — please reference accessories pg 1.14.

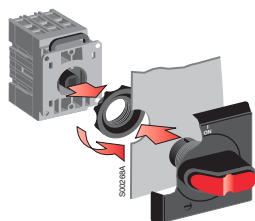


Handles

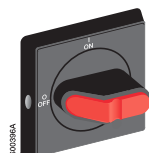
for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted



OHBS3_



OHBS2_



OZ331_B



OZ371PB



OHBS_



SS handles



OHBS2PJEH

Selector handles — for use with shafts (□ 6 x 6 mm) base-mount switches

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
All marked both O/I & Off/On								
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHBS3AH1 ^①	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHYS3AH1 ^①	
1, 3R, 12	IP65	Blk	O/I & OFF/ON	Yes	Yes	65	OHBS2AJ	
1, 3R, 12	IP65	Grey	O/I & OFF/ON	Yes	Yes	65	OHGS2AJ	
1, 3R, 12	IP65	Red/Yel	O/I & OFF/ON	Yes	Yes	65	OHYS2AJ	
1, 3R, 12	IP65	Blk	I / O / II	Yes	Yes	65	OHBS2AJE011	
1, 3R, 12	IP65	Red/Yel	I / O / II	Yes	Yes	65	OHYS2AJE011	
1, 3R, 12	IP65	SS HASP	O/I & OFF/ON	Yes	Yes	65	OHBS2AJEH	

Round Padlockable handles base-mount switches

Padlockable in 0-position, max 3 padlocks with max 8 mm hasp diameter.

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
NEMA 4X	IP65	Black	OFF/ON	Yes	Yes	66x66	OZ331PB	
NEMA 4X	IP65	Red/Yel	OFF/ON	Yes	Yes	66x66	OZ331PRY	
NEMA 4X	IP69K	Black	O/I & OFF/ON	Yes	Yes	66x66	OZ331P67B	
NEMA 4X	IP69K	Red/Yel	O/I & OFF/ON	Yes	Yes	66x66	OZ331P67RY	
Handles with door coupling in ON-position								
NEMA 4X	IP65	Black	OFF/ON	No	Yes	66x66	OZ371PB	
NEMA 4X	IP65	Red/Yel	OFF/ON	No	Yes	66x66	OZ371PRY	

Selector handles, Door mounted switches

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
All marked both O/I & Off/On								
Snap-on mounting — for use on OT16FT3 – OT40FT3								
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHBS3PH	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHYS3PH	
1, 3R, 12	IP65	Blk	O/I & OFF/ON	—	Yes	65	OHBS2PJ	
1, 3R, 12	IP65	Red/Yel	O/I & OFF/ON	—	Yes	65	OHYS2PJ	
1, 3R, 12	IP65	SS HASP	O/I & OFF/ON	—	Yes	65	OHBS2PJEH	

Screw mounting — for use on OT16FT3 – OT100FT3

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Dim. (mm ²)	Catalog number	List price
1	IP54	Blk	O/I & OFF/ON	—	Yes	48	OHBS3RH	
1	IP54	Red/Yel	O/I & OFF/ON	—	Yes	48	OHYS3RH	
1, 3R, 12	IP65	Blk	O/I & OFF/ON	—	Yes	65	OHBS2RJ ^②	
1, 3R, 12	IP65	Red/Yel	O/I & OFF/ON	—	Yes	65	OHYS2RJ ^②	

Pistol handles — for use with shafts (□ 6 x 6 mm) ^③ padlockable with three padlocks in OFF-position, door interlock in ON-position.

NEMA type	IEC type	Color	Marking	Defeatable	Padlockable	Shaft size (mm ²)	Catalog number	List price
1, 3R, 12	IP65	Black	O/I & Off/On	Yes	Yes	6	OHBS45J6	
		Red/Yel	O/I & Off/On	Yes	Yes	6	OHYS45J6	
		Black	O/I & Off/On	Yes	Yes	6	OHBS65J6	
		Grey	O/I & Off/On	Yes	Yes	6	OHGS65J6	
		Red/Yel	O/I & Off/On	Yes	Yes	6	OHYS65J6	
		Black	O/I & Off/On	Yes	Yes	6	OHBS80J6	
		Grey	O/I & Off/On	Yes	Yes	6	OHGS80J6	
		Red/Yel	O/I & Off/On	Yes	Yes	6	OHYS80J6	
1, 3R, 4, 4X, 12	IP66	Black	O/I & Off/On	Yes	Yes	6	OHBS65L6	
		Red/Yel	O/I & Off/On	Yes	Yes	6	OHYS65L6	
		Black	O/I & Off/On	Yes	Yes	6	OHBS80L6	
		Red/Yel	O/I & Off/On	Yes	Yes	6	OHYS80L6	
1, 3R, 4, 4X, 12	IP65	SS	O/I & Off/On	Yes	Yes	6	OHM65L6	
1, 3R, 12	IP65	Black	I / O / II	Yes	Yes	6	OHBS65J6E011	
		Red/Yel	I / O / II	Yes	Yes	6	OHYS65J6E011	
1, 3R, 4, 4x, 12	IP66	Black	I / O / II	Yes	Yes	6	OHBS65L6E011	
		Red/Yel	I / O / II	Yes	Yes	6	OHYS65L6E011	

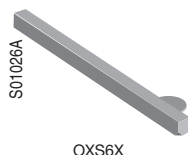
① Not suitable for use with OT30F3, OT60F3, OT100F3

② Suitable for OT30, 60, 100FT as well

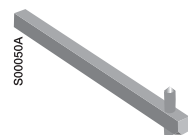
③ Plastic pistol grip handle with stainless steel hasp, add suffix EH. ex.: OHBS65J6EH

Shafts

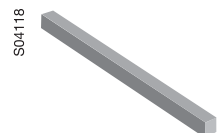
for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted



OXS6X__



OXp6X__



OXp6X__

Shafts — for use with OH selector handles (□ 6 x 6 mm)



Mounting depth^① in mm

Shaft length (mm)	OT16F3 OT25F3 OT40F3		OT63F3 OT80F3		OT30F3 OT60F3 OT100F3	Catalog number	List price
	OH_3_	OH_2_	OH_3	OH_2_	OH_2_		
85	105 – 125	90 – 110	125 – 140	110 – 125	100 – 125	OXS6X85	
130	150 – 170	135 – 155	170 – 185	155 – 170	145 – 170	OXS6X130	
180	200 – 220	185 – 205	220 – 235	205 – 220	195 – 220	OXS6X180	
250	270 – 290	255 – 275	290 – 305	275 – 290	265 – 290	OXS6X250	
330	350 – 370	335 – 355	370 – 385	355 – 370	345 – 370	OXS6X330	
455	475 – 495	460 – 480	495 – 510	480 – 495	470 – 495	OXS6X455	

Shafts — for use with pistol handles (□ 6 x 6 mm)



Mounting depth^① in mm

Shaft length (mm)	OT16F3 OT25F3 OT40F3		OT63F3 OT80F3	OT30F3 OT60F3 OT100F3	Catalog number	List price
150	155 – 170		175 – 185	160 – 185	OXp6X150	
170	175 – 190		195 – 205	180 – 205	OXp6X170	
265	270 – 285		290 – 300	275 – 300	OXp6X265	
400	405 – 420		425 – 435	410 – 435	OXp6X400	
500	505 – 520		525 – 535	510 – 535	OXp6X500	
700	705 – 720		725 – 735	710 – 735	OXp6X700	

Shafts — For round padlockable type handles. Shaft diameter 6 mm

Shaft length (mm)	suitable for switches	Catalog number	List price
60	OT16...100F	OX6X60	
85	OT16...100F	OX6X85	
105	OT16...100F	OX6X105	
115	OT16...100F	OX6X115	
130	OT16...100F	OX6X130	
155	OT16...100F	OX6X155	
200	OT16...100F	OX6X200	
300	OT16...100F	OX6X300	

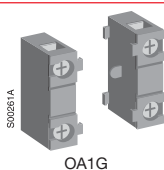
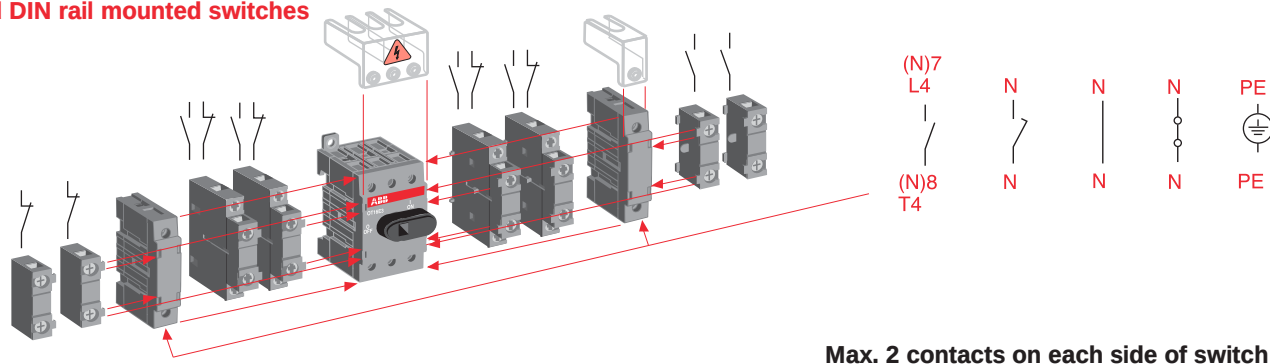
① Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.



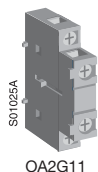
Accessories

for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted, door mounted

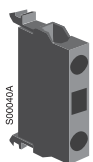
Base and DIN rail mounted switches



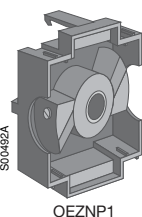
OA1G_



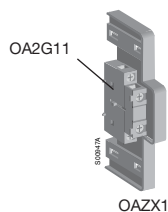
OA2G11



OBEA_



OEZNP1



OAZX1

Auxiliary contacts — snap-on mounting

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. mounts on right side (2 max)	OT16F(T)3 - OT100F(T)3 OT16F3C - OT100F3C	10	600	OA1G10	
1 N.O. Gold plated	OT16F(T)3 - OT100F(T)3	10	600	OA1G10AU	
1 N.O. mounts on left side (2 max)	OT16F3C - OT100F3C	10	600	OA7G10	
1 N.C. mounts on left side (2 max)	OT16F(T)3 - OT100F(T)3 OT16F3C - OT100F3C	10	600	OA1G01	
1 N.C. Gold plated	OT16F(T)3 - OT100F(T)3	10	600	OA1G01AU	
1 N.C. mounts on right side (2 max)	OT16F3C - OT100F3C	10	600	OA8G01	
1 N.O. + 1 N.C. mounts on left or right hand side of switch	OT16F3 - OT100F3	10	600	OA2G11 ^①	

① OT16_40: max. 2NO+2NC, OT63...100: max 4NO+4NC

Auxiliary contacts top mounted^②

- OEZNP1 mounting base required to mount auxiliary contacts (order separately) max 6 aux. blocks. Early break type

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O.	OT160E3	10	600	OBEA10	
1 N.C.		10	600	OBEA01	
1 N.O. gold plated		10	600	OBEA-10AU	
1 N.C. gold plated		10	600	OBEA-01AU	
Mounting base on top	OBEA_			OEZNP1	

Auxiliary contacts side mounted^②

- Accepts four contacts maximum (2 blocks/side)

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. + 1 N.C.	OT160E3	10	600	OA2G11	
Mounting base required for OA2G11				OAZX1	

② When using OBEA_ auxiliary contacts, mounting base OEZNP1 is required, and when using OA2G11, mounting base OAZX1 is required.

Accessories

for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted, door mounted



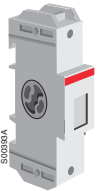
OTP_40_



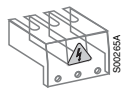
OTP_80_



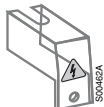
OTP_125_



OTP_160EP



OTS_T3



OTS_T1

Power poles — Only one power pole per switch, mounts on left or right side of switch

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Fourth pole	OT16F3 – OT40F3	40	600	OTPS40FPN1*	
	OT16F3 – OT40F3	40	600	OTPS40FPN2*	
	OT63F3 – OT80F3	80	600	OTPS80FP	
	OT30F3 – OT60F3	60	600	OTPS60FP	
	OT100F3	100	600	OTPS125FP	
	OT160E3, ET3	125	600	OTPS160EP	
Late-break/early-make	OT16F3 – OT40F3	40	600	OTPL40FP	
	OT63F3 – OT80F3	80	600	OTPL80FP	
	OT30F3, OT60F3	60	600	OTPL60FP	
	OT100F3	100	600	OTPL125FP	
Fourth pole	OT16FT3 – OT40FT3	40	600	OTPS40FDN1	
	OT16FT3 – OT40FT3	40	600	OTPS40FDN2	
	OT63FT3 – OT80FT3	80	600	OTPS80FD	
	OT30FT3, OT60FT3	60	600	OTPS60FD	
	OT100FT3	100	600	OTPS125FD	
Late-break/early-make	OT16FT3 – OT40FT3	40	600	OTPL40FD	
	OT63FT3 – OT80FT3	80	600	OTPL80FD	
	OT30FT3, OT60FT3, OT100FT3	100	600	OTPL125FD	

* N1 = On the left side of the switch N2 = On the right side of the switch

Terminal poles — Switch accepts one terminal pole per side, mounts on left or right side of switch

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid neutral Base & DIN rail mounted	OT16F3 – OT40F3	40	600	OTPN40FP	
	OT63F3 – OT80F3	80	600	OTPN80FP	
	OT30F3, OT60F3, OT100F3	100	600	OTPN125FP	
	OT160E3, ET3	125	600	OTPN160EP	
Detachable neutral Base & DIN rail mounted	OT16F3 – OT40F3	40	600	OTPD40FP	
	OT63F3 – OT80F3	80	600	OTPD80FP	
	OT30F3, OT60F3	60	600	OTPD60FP	
	OT100F3	100	600	OTPD125FP	
Ground terminal Base & DIN rail mounted	OT16F3 – OT40F3	40	600	OTPE40FP	
	OT63F3 – OT80F3	80	600	OTPE80FP	
	OT30F3, OT60F3	60	600	OTPE60FP	
	OT100F3	100	600	OTPE125FP	
	OT160E3, ET3	125	600	OTPE160EP	
Solid neutral Door mounted	OT16FT3 – OT40FT3	40	600	OTPN40FD	
	OT63FT3 – OT80FT3	80	600	OTPN80FD	
	OT30FT3, OT60FT3, OT100FT3	100	600	OTPN125FD	
Detachable neutral Door mounted	OT63FT3 – OT80FT3	80	600	OTPD80FD	
Ground terminal Door mounted	OT16FT3 – OT40FT3	40	600	OTPE40FD	
	OT63FT3 – OT80FT3	80	600	OTPE80FD	
	OT30FT3, OT60FT3	60	600	OTPE60FD	
	OT100FT3	100	600	OTPE125FD	

Terminal shrouds — snap on mounting for line or load side

Description	For use on:	Catalog number	List price
3 pole includes one shroud for line or load side	OT16F3 – OT40F3, -FT3 OT63F3 – OT80F3, -FT3 OT30F3, OT60F3, OT100F3, -FT3 OT160E3	OTS40T3 OTS63T3 OTS125T3 OTS160T3	
For 1 to 4-pole switches, shroud for single pole and for fourth	OTP_40F- OTP_80F- OTP_60F, OTP_125F OT160E	OTS40T1 OTS63T1 OTS125T1 OTS160T1	

** All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.



Accessories

for 16A – 125A non-fusible disconnect switches
Base & DIN rail mounted



OHRS2



OHBS11



OHBS12



OTZS1



OHY7



CXBY68140



OHZX5

Replacement Knob – mounts directly to switch; no shaft necessary.

UL/NEMA type	Color	For use on :	Length (MM)	Padlockable	Catalog number	List price
1	Black	OT16...40	25	–	CXBY68989	
1	Black	OT63... 80, OT30, 60, 100	35	–	CXBY68998	
1	Red	OT63-80, OT30-100	40	Yes	OHRS2	
1	Black	OT16 - OT40	–	Yes	OHBS12	
1	Black	OT160	72	–	OHBS13	
1	Black	OT63... 80, OT30, 60, 100	–	Yes	OHBS2/1	
Metal collar		OT16-OT200	–	–	OTZS2	
Red knob for locking shaft in place **re-use original set screw **		OT160	–	–	CXBY68100	
Set screw ①		OT16- OT100	–	–	FLSWM5X8AY	

(1) Set screw for use with knob or collar, to be ordered separately.

Red/Yellow handles are available by substituting the OHB prefix with OHY.

Modular adapter cover – for OT16, OT25, OT40

Item	For use on :	Length (inches)	Padlockable	Catalog number	List price
Adapter cover grey	OT16, OT25, OT40	–	Yes	OHBS7	
Adapter cover yellow	OT16, OT25, OT40	–	Yes	OHYS7	

A padlock can be used with the adapter cover.

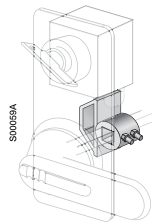
Locking clip – (replacement part)

Description	For use on :	Catalog number	List price
Door mounted switch handle locking clip	OT16, OT25, OT40	CXBY68140	

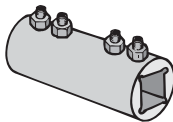
Handle support – (for direct mounting on the switch mechanism for OH_65, 80 handles)

Description	For use on:	Catalog number	List Price
Handle Support	OT160E3	OHZX5	

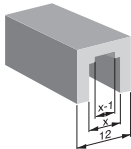
Accessories for 16A - 100A Non-fusible disconnect switches



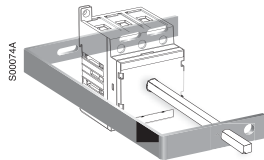
OETL-ZW16



OESA-ZX167
OETL-ZX95



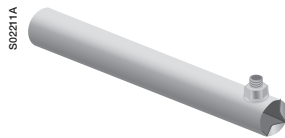
OETL-ZK19
(X = 6mm)



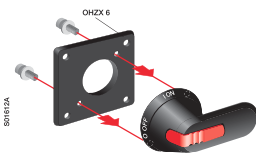
OETL-ZX58



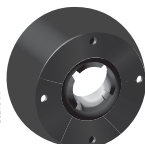
OHZX10



OXT20X210X



OHZX6



OHZX14

Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key interlock. The interlock is not included.	6 & 8mm shafts	OETL-ZW16	

Shaft extension couplers

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	for 6mm shafts for 12mm shafts	OESA-ZX167 OETL-ZX95	

Shaft adapter

Description	For use on:	Catalog number	List price
Adapts one end of a 6mm shaft to 12mm. The adapter can be placed inside the extension coupler OETLZX95	6mm shafts	OETL-ZK19	

Stainless steel hasp

Description	For use on:	Catalog number	List price
Replacement stainless steel hasp	Selector handle Pistol handle	OHZX12 OHZX13	

Shaft support

Description	For use on:	Catalog number	List price
Shaft support	OT16F3 – OT100F3	OETL-ZX58	

Pistol handle adapter, door mounted switches

Description	For use on:	Catalog number	List price
Adapter piece for pistol handle	OT30FT3, OT60FT3, OT100FT3	OHZX6	

Shafts alignment ring, improves the handle operation if a handle and a shaft have been poorly aligned

Description	For use on:	Catalog number	List price
For Pistol Handles	OH_45, 65, 80, 125, 145, 175J, L	OHZX10	
For Selector Handles	OH_2, 3, AH, AJ	OHZX11	
For round padlockable handle	OZ371P_	OZG71	

(1) fits all pistol grip handles, mounts on the inside of the enclosure door with provided hardware.

Shaft tube

Description	For use on:	Catalog number	List price
Supporting 12mm shafts longer than 280mm	12mm shafts	OXT20X210X	

Extension ring for pistol type handles

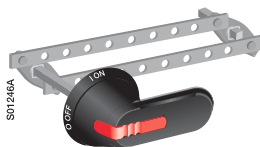
Description	For use on:	Catalog number	List price
Black	OHB_	OHZX14	



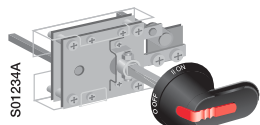
Accessories for 16A - 200A Non-fusible disconnect switches



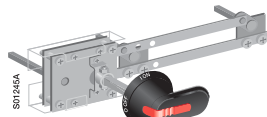
OTZW8



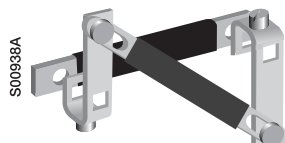
OESA-ZW2



OESA-ZW1



OTZW17



OTZW24

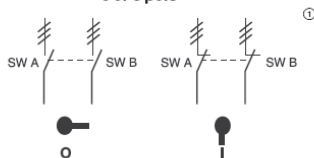
Conversion mechanisms

- For use with Base and DIN rail mounted switches only
- Switches are not included

Description	For use on:	Catalog Number	List price
6 or 8 pole	OT16F* – OT100F*	OTZW8	
Transfer		OESA-ZW1	
Bypass		OTZW17	
Mechanical Interlock		OTZW24	
6 or 8 pole	OT160E*-OT200U* OT200U* OT200U* OT160E*-OT200U*	OESA-ZW2	
Transfer		OTZW25	
By pass		OTZW26	
Mechanical Interlock		OTZW10	

Conversion kit type	To be ordered separately		Included in conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OESA-ZW2	-	-	x (2 pcs)	OHB145J12	-	-
Change-over switches						
OESAZW1	-	-	x (2 pcs)	OHB80J6E011	-	-
OTZW25	-	-	x (2 pcs)	OHB95J12E011	-	-
By-pass switches						
OETLZW17	-	-	x (3 pcs)	OHB80J6E011	-	-
OETLZW26	-	-	x (3 pcs)	OHB95J12E011	-	-
Mechanical interlock						
OTZW24	-	-	-	-	x	x
OTZW10	-	-	-	-	x	x

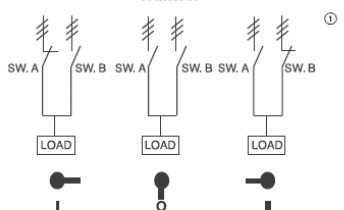
6 or 8 pole



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

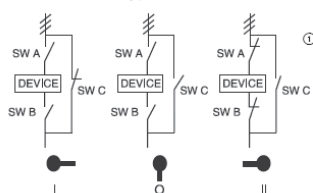
Transfer



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

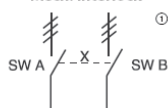
Bypass



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

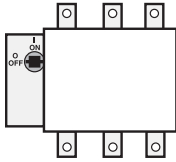
X = Closed
O = Open

Mech. interlock



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

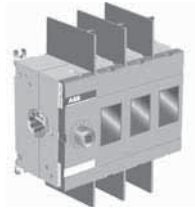


200A – 2000A Non-fusible disconnect switches



For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



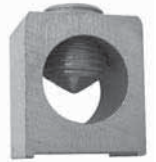
OT200U03



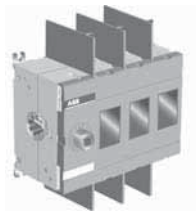
OX6X210



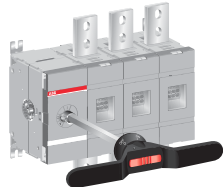
OHB80J6



OZXA-200



OT200U03



OT800U03P-OT1200U03P

200 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
2 pole								
200	4	30/1Ph	40/1Ph	40/1Ph	—	—	OT200U02	
3 pole								
200	4	60	60	75	150	200	OT200U03	
200	4	60	60	75	150	200	OT200U12	
200	4	60	60	75	150	200	OT200U30	
4 pole								
200	4	60	60	75	150	200	OT200U04	

400 – 800 Amp switches, 600V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		200V	208V	240V	480V	600V		
2 pole								
400	4	—	—	—	—	—	OT400U02	
600	4	—	—	—	—	—	OT600U02	
800	4	—	—	—	—	—	OT800U02	
3 pole								
400	4	100	100	125	250	350	OT400U03	
400	4	100	100	125	250	350	OT400U12	
400	4	100	100	125	250	350	OT400U30	
600	4	150	150	200	400	500	OT600U03	
600	4	150	150	200	400	500	OT600U12	
600	4	150	150	200	400	500	OT600U30	
800	4	200	200	250	500	500	OT800U03	
800	4	200	200	250	500	500	OT800U12	
800	4	200	200	250	500	500	OT800U30	
4 pole								
400	4	100	100	125	250	350	OT400U04	
600	4	150	150	200	400	500	OT600U04	
800	4	200	200	250	500	500	OT800U04	

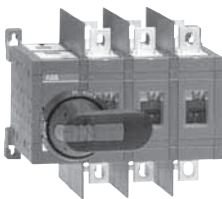
1200 – 2000 Amp switches, 600V

① Maximum operating voltage: 480V

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		200V	208V	240V	480V	600V		
2 pole								
1200	4	The Canadian Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A.					OT1200U02	
1600	4						OETL-NF1600-2	
2000	4						OETL-NF2000-2 ^①	
3 pole								
1200	4						OT1200U03	
1200	4						OT1200U12	
1600	4						OETL-NF1600	
2000	4						OETL-NF2000 ^①	
4 pole								
—	—						OT1200U04	
—	—						OETL-NF1600-4	
—	—						OETL-NF2000-4 ^①	

200 – 1200 Amp change-over switches – bridging bars on page 1.14 to be ordered separately

CSA general purpose amp rating	CSA standard C22.2 No.	Maximum horsepower rating					Catalog number	List price
		200V	208V	240V	480V	600V		
3 pole								
200	4	60	60	75	150	200	OT200U03C	
400	4	100	100	125	250	350	OT400U03C	
600	4	150	150	200	400	500	OT600U03C	
800	4	200	200	250	500	500	OT800U03C	
4 pole								
200	4	60	60	75	150	200	OT200U04C	
400	4	100	100	125	250	360	OT400U04C	
600	4	150	150	200	400	500	OT600U04C	
800	4	200	200	250	500	500	OT800U04C	

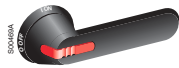


OT200U03CP



200A – 2000A

Non-fusible disconnect switches



OHBJ12

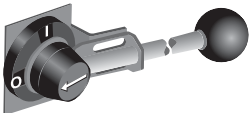


S02156A



OHBJ200J12

S00097A



YASDA-8

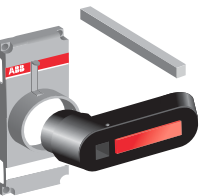
S01144A



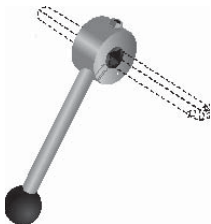
OHM_



OHZX10



OTV250EK



YASDA-34



OTZS2

Pistol handles — for use with (□ 6 x 6 mm) OT200 ②

NEMA type	IEC type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
1, 3R, 12	IP65	Blk	80	O/I & Off/On	Yes	Yes	OHB80J6	
1, 3R, 12	IP65	Grey	80	O/I & Off/On	Yes	Yes	OHG80J6	
1, 3R, 12	IP65	R/Y	80	O/I & Off/On	Yes	Yes	OHY80J6	
1, 3R, 4, 4X, 12	IP66	Blk	80	O/I & Off/On	Yes	Yes	OHB80L6	
1, 3R, 4, 4X, 12	IP66	R/Y	80	O/I & Off/On	Yes	Yes	OHY80L6	
1, 3R, 4, 4X, 12	IP66	SS	65	O/I & Off/On	Yes	Yes	OHM65L6	

Shafts — for use with pistol handles (□ 6 x 6 mm)

Shaft length mm	Mounting depth ^① in mm	Catalog number	List price
150	129 – 194	EXP6X150	
210	189 – 254	EXP6X210	
290	269 – 334	EXP6X290	
360	339 – 404	EXP6X360	
430	409 – 474	EXP6X430	
700	675 – 705	EXP6X700	

Pistol handles — for use with shafts (□ 12 x 12 mm) OT400...OETL-NF2000 ②

NEMA type	IEC type	Color	Length in mm	Marking	Defeatable	Padlockable	Catalog number	List price
1,3R,12	IP65	Blk	145	O/I & Off/On	Yes	Yes	OHB145J12	
1,3R,12	IP65	Grey	145	O/I & Off/On	Yes	Yes	OHG145J12	
1,3R,12	IP65	R/Y	145	O/I & Off/On	Yes	Yes	OHY145J12	
1,3R,12	IP65	Blk	175	O/I & Off/On	Yes	Yes	OHB175J12	
1,3R,12	IP65	R/Y	175	O/I & Off/On	Yes	Yes	OHY175J12	
1,3R,12	IP65	Blk	2 x 200	O/I & Off/On	Yes	Yes	OHB200J12P	
1,3R,4,4X	IP65	Blk	2 x 200	O/I & Off/On	Yes	Yes	OHB200L12P	
1,3R,4,4X	IP65	SS	2 x 200	O/I & Off/On	Yes	Yes	OHM200L12P	
1,3R,4,4X,12	IP66	Blk	145	O/I & Off/On	Yes	Yes	OHB145L12	
1,3R,4,4X,12	IP66	R/Y	145	O/I & Off/On	Yes	Yes	OHY145L12	
1,3R,4,4X,12	IP66	Blk	175	O/I & Off/On	Yes	Yes	OHB175L12	
1,3R,4,4X,12	IP66	R/Y	175	O/I & Off/On	Yes	Yes	OHY175L12	
1,3R,4,4X,12	IP65	Metal	220	Off/On	—	Yes	YASDA-8	
1,3R,4,4X,12	IP66	SS	125	O/I & Off/On	Yes	Yes	OHB125L12	
1,3R,4,4X,12	IP66	SS	175	O/I & Off/On	Yes	Yes	OHB175L12	
1,3R,4,4X,12	IP66	SS	275	O/I & Off/On	Yes	Yes	OHB275L12	
1,3R,12	IP65	Blk	274	O/I & Off/On	Yes	Yes	OHB274J12*	
1,3R,12	IP65	Blk	330	O/I & Off/On	Yes	Yes	OHB330J12*	

Shafts — for use with pistol handles (□ 12 x 12 mm)

Shaft length mm	Mounting depth ^① in mm	Catalog number	List price
For use on:	OT400, 600	OT800U03 - OT1200U03	OETL-NF1600,2000
280	260-340	295-390	
325	305-385	350-435	350-435
395	375-455	410-505	410-505
465	445-525	480-575	480-575
535	515-595	550-645	550-645
625	605-685	640-735	640-735

Shafts alignment ring — for use on :

Description	For use on:	Catalog number	List price
Pistol Handles	OH_45...275J5...12	OHZX10	

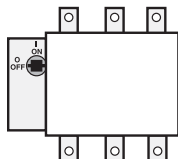
Direct Mounted Handle

Description	For use on:	Catalog number	List price
Padlockable with 3 padlocks in O-position	OT200	OTV250EK	
Includes shaft and mechanism	OT400	OTV400EK	
	OT600	OTV800EK	
	OT800-OT1200	OTV1000EK	
Mounts on shaft	OETL-NF1600, 2000	YASDA-34	

Replacement Parts

Accessory Type	Description	For use on:	Catalog number	List price
Metal Collar	for locking shaft in place	OT200	OTZS2	
Set Screw	Set screw for use with knob or collar	OT200	FLSWM5X6X	

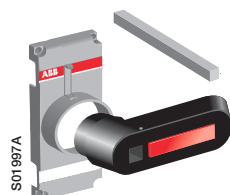
* for use on OT800... 1200U and OS1200



Accessories for 200- 1200A Non-fusible disconnect switches



OHB_



OTV_

Handles, door mounting

Plastic I - 0 - II handle, NEMA 1, 12, 3R and IP65, padlockable with three padlocks in 0-position, door interlock in I- and II-position and when padlocked.

Suitable for switches	Colour	Shaft diam. [mm]	Catalog number	List Price
OT200U_C	black	6	OHB80J6E011	
OT400U_C	black	12	OHB145J12E011	
OT600U_C	black	12	OHB145J12E011	
OT800U_C	black	12	OHB200J12PE011	

Plastic I - 0 - II handle, NEMA 1, 12, 3R and IP65, padlockable with three padlocks in all positions, door interlock in I- and II-position and when padlocked.

OT200U_C	black	6	OHB80J6E311	
OT400U_C	black	12	OHB145J12E311	
OT600U_C	black	12	OHB145J12E311	
OT800U_C	black	12	OHB200J12PE311	

★ – Coil voltage

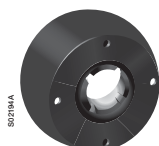
Handles, direct mounting

Plastic I - 0 - II handle, padlockable with three padlocks in 0-position. Includes a shaft and a mechanism cover. Types -ECMK include also microswitches.

Suitable for switches	Colour	Shaft diam. [mm]	Catalog price	List
OT200U_C	black	shaft included	OTV250ECK	
OT400U_C	black	shaft included	OTV400ECK	
OT600U_C	black	shaft included	OTV800ECK	
OT800U_C	black	shaft included	OTV1000ECK	

Metallic handles, IP65, Nema types 1, 3R, 4, 4X, 12. Indication I - 0 - II. Padlockable with 3 padlocks in OFF- position, door interlock in I- and II- position.

Handle length [mm]	Colour	Shaft diam. [mm]	Catalog price	List
220	Metal	12	YASDA21	
320	Metal	12	YASDA6	



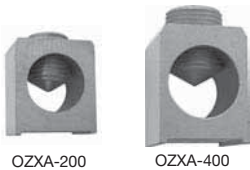
OHZX14

Extension ring for pistol type handles

Description	For use on:	Catalog number	List price
Black	OHB_	OHZX14	



Accessories for 200 – 2000A Non-fusible disconnect switches



OZXA-200

OZXA-400



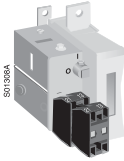
OZXA-32



OZXA-800



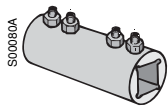
OEA28



OZXC-



OTS_L



OETL-ZX95

Terminal lug kits

For use on:	Wire size	Wire type	Terminal lugs per kit	Kit catalog number	List price
OT200	#4 – 300 kcmil	Cu/Al	6	OZXA-200	
	(6)#14 – #6 AWG	Cu/Al	3	OZXA-206T	
OT400	#2 – 600 kcmil	Cu/Al	6	OZXA-400	
	(2) #2 – 300 kcmil	Cu/Al	6	OZXA-402	
	(6) #14 – #6 AWG	Cu/Al	3	OZXA-406	
	(2) #4 – 500 kcmil	Cu/Al	6	OZXA-33	
OT600	(2) #2 – 600 kcmil	Cu/Al	6	OZXA-800	
OT800, OT1200	(4) #2 – 600 kcmil	Cu/Al	6	OZXA-1200	
OETL-NF1600	(4) #1/0 – 750 kcmil	Cu/Al	6	DSK8TL	
OETL-NF2000	(6) #1/0 – 750 kcmil	Cu/Al	6	DSK8TM	
OETL-NF800,NF1200,NF1600	(8) 2/0+(2)#2 – 600 kcmil	Cu/Al	3	OZXA-32	

Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog ^① number	List price
1 N.O. 1 N.C. Module for aux. contacts	OT200-1200	10	600	OA1G10	
		10	600	OA3G01	
		10	600	OEA28	
1 N.O. + 1 N.C. 2 N.O. + 2 N.C. 4 N.O. + 4 N.C.	OETL-NF1600 & OETL-NF2000	10	600	OZXC-1	
		10	600	OZXC-2	
		10	600	OZXC-3	

① Mounting on the side of the switch: max. 8 auxiliary contact blocks with the OEA28 module

Mounting under the mechanism cover: OT200: Max. 4 test contacts or 2 test contacts + 2 test indication contacts.

OT400-600: Max. 4 test contacts + 4 test indication contacts. OT800-1200: Max 4 test indication contacts + 8 test contacts. The test contacts can be used as standard auxiliary contacts as well.

Detachable neutral links

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Mounting separately on baseplate protected construction	OT200	200	600	OXN250	
	OT400	400	600	OXN400	
	OT600	600	600	OXN800T	

Terminal shrouds (Snap-on mounting, grey plastic, IP30) ^② For both line and load sides

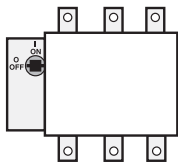
For use on:	Lug type	Qty per pkg	Quantity for full protection (pcs.) ^②	Catalog number	List price
OT200U03	OZXA-200	3 x 1P	2	OTS250G1L/3	
OT200U12	OZXA-200	3 x 1P	2	OTS250G1L/3	
OT400U03	OZXA-400	1 x 3P	2	OTS403	
OT400U03	OZXA-402	1 x 3P	2	OTS403	
OT400U03	OZXA-33	1 x 3P	2	OETL-ZX94	
OT600U03	OZXA-800	1 x 3P	2	OTS603	
OT800 -1200	OZXA-800	3 x 1P	2	OTS1600G1L/3	
OT800 -1200	OZXA-1200	3 x 1P	2	OTS1600G1L/3	

Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	6mm shafts	OESA-ZX167	
	12mm shafts	OETL-ZX95	

Mounting feet

Description	For use on:	Catalog number	List price
Mounting feet Screw	OT200	OEZKL1 FPMH3.5X12X-TX15	
Mounting feet Screw	OS200/400, OT400/600	OEZKL2 FPMH5X14X-TORX	
Mounting feet	OT800	OZXE14	



Accessories for 400- 1200A Non-fusible disconnect switches



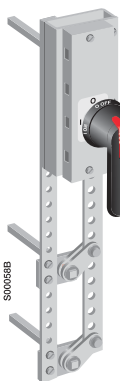
OETL-ZW9



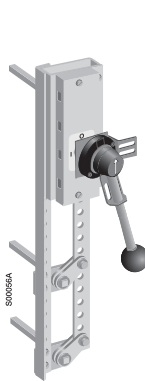
OTZW25



OETL-ZW12



OTZW26



OETL-ZW13



OETL-ZW15

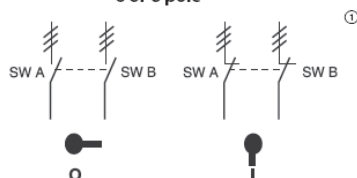
Conversion mechanisms

- For use with Base and Din rail mounted switches only
- Switches are not included

Description	For use on:	Catalog number	List price
6 or 8 pole Transfer Bypass	OT400, OT600	OETL-ZW9 OETL-ZW12 OETL-ZW13	
Mechanical interlock	OT400, OT1200	OETL-ZW15	

Conversion kit type	To be ordered separately		Included in conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OETL-ZW9 for OT	-	-	-	-	x	x
OETL-ZW9 for OETL	-	YASDA7	-	-	x	-
Change-over switches						
OETL-ZW12	-	-	x (2 pcs)	YASDA21 (metallic)	-	-
By-pass switches						
OETL-ZW13	-	-	x (3 pcs)	YASDA6	-	-
Mechanical interlock						
OETL-ZW15	-	-	-	-	x	x

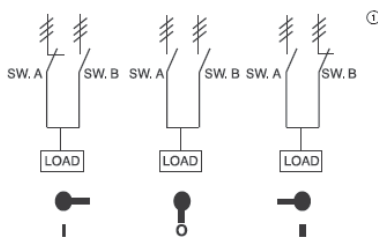
6 or 8 pole



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

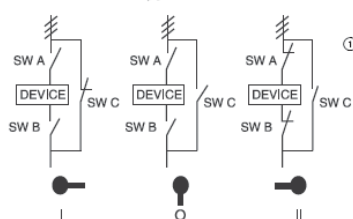
Transfer



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

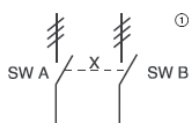
Bypass



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

Mech. interlock

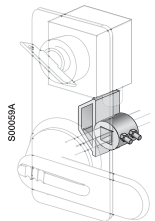


	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

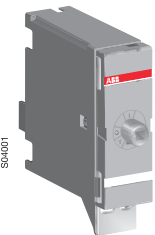
X = Closed
O = Open



Accessories for 200- 1200A Non-fusible disconnect switches



OETL-ZW5



OTZT1



OTZT3



OTZC_

Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. For adapting to the interlock system The interlock is not included.	12mm shafts	OETL-ZW5	

Phase separators

Description	For use on:	Catalog number	List price
Grey plastic plate for maintaining 1" clearance between the phases without terminal shrouds. Snap-on mounting. The package includes 6 plates.	OT600 OT800-OT1200	OTB800/6 OTB1600/6	

Mechanism interlock kits & Electrical interlocks

Non-fusible disconnect switches 200A- 1200A can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism. The diameter of the lock bail can be max dia. 8 mm.

Description	For use on:	Catalog number	List price
Interlocking in the OFF position	OT200 OT400 OT600 OT800-1200	OTZT1A OTZT2A OTZT3A OTZT4A	
Interlocking in the OFF & ON positions	OT200 OT400 OT600 OT800-1200	OTZT1L OTZT2L OTZT3L OTZT4L	

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions.

The electrical interlock works using the "closed circuit principle", meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Catalog number	List price
AC coils 110 VAC, 50Hz 110 VAC, 60Hz 208 VAC, 60Hz 230 VAC, 50Hz	PDAL2/110AC50Hz PDAL2/110AC60Hz PDAL2/208AC60Hz PDAL2/230AC50Hz	
DC coils 24 VDC 48 VDC 60 VDC 110 VDC OS600 ...800_ OS1200 ... 1250U_	PDAL2/24DC PDAL2/48DC PDAL2/60DC PDAL2/110DC OSZT3L OSZT4L	

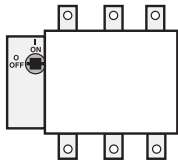
Bridging bars

The bridging bars provide a connection link either on the incoming or outcoming side of the switch.

Suitable for switches	Number of poles	Catalog number	List price
OT200U_C	3 4	OTZC13 OTZC14	
OT400U_C	3 4	OTZC23 OTZC24	
OT600U_C	3 4	OTZC33 OTZC34	
OT800U_C	3 4	OTZC43 OTZC44	

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

② Plastic pistol grip handle with stainless steel hasp, add suffix EH



Other configurations

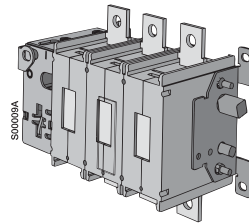
Side operated

30A – 800A



For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OETL-NF200A-S



OXP8X240



OHB80J8TE00S



OSNF30-S



OHY_J_



OETL-ZX74



OXP5X170
OXP8X240
OXP12X325



OZXA-24



OZXA-25



OZXA-26

Side operated switches — 3 pole

CSA general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	32	5	7.5	7.5	15	20	OSNF30-S	
60	63	15	15	15	30	50	OSNF60-S	
100	125	25	25	30	60	75	OSNF100-S	
200	250	60	60	75	150	200	OETL-NF200A-S	
400	630	100	100	125	250	350	OETL-NF400-S	

Handles

UL/NEMA type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
For use with OSNF30-S							
1, 12, 3R	Black	65	O/I & OFF/ON	Yes	Yes	OHB65J6	
1, 12, 3R	Red/Yel	65	O/I & OFF/ON	Yes	Yes	OHB65J6	
For use with OSNF60-S — OSNF100-S							
1, 12, 3R	Black	80	O/I & OFF/ON	Yes	Yes	OHB80J6	
1, 12, 3R	Red/Yel	80	O/I & OFF/ON	Yes	Yes	OHY80J6	
For use with OETL-NF200A-S							
1, 12, 3R	Black	80	O/I & OFF/ON	Yes	Yes	OHB80J8	
1, 12, 3R	Red/Yel	80	O/I & OFF/ON	Yes	Yes	OHY80J8	

Shafts

For use on :	Length mm	Description	Catalog number	List price
OSNF30-S	170	6 x 6mm	OXP6X170	
OSNF60-S – OSNF100-S	210	6 x 6mm	OXP6X210	
OETL-NF200A-S	240	8 x 8mm	OXP8X240	
OETL-NF400-S	325	12 X 12mm	OXP12X325	

Terminal lug kits

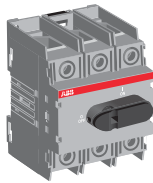
For use on:	Wire size	Weight	Wire type	Lugs per kit	Catalog number	List price
OSNF30-S	#18 – 8	—	Cu	—	Integral	
OSNF60-S	#14 – 4	—	Cu	—	Integral	
OSNF100-S	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	
OETL-NF200A-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25	
OETL-NF400-S	#2 – 600 kcmil	3.520	Cu/Al	6	OZXA-26	



Other configurations

Flange operated disconnect switches

Cable operated non-fusible



OT100F3



OHF1C12



OXC1L36



Operating mechanism



Switch



Handle



Cable



Lug kit (as required)



Operating mechanism

Flange operated switches 30A- 200A – 3 pole

CSA general purpose amp rating	Maximum horsepower rating					Catalog number	List price
	Three phase						
	200V	208V	240V	480V	600V		
30	10	10	10	20	30	OT30F3	
60	20	20	20	40	40	OT60F3	
100	25	25	30	50	50	OT100F3	
125	30	30	40	75	100	OT160E3	
200	60	60	75	150	200	OT200U30	

Operating mechanisms

For use with:	Catalog number	List price
OT30-100 OT160 OT200	MKCS1 MKCS3 MKCS4	

Handles

CSA/NEMA type	Color	Length (mm)	Marking	Defeatable	Padlockable	Catalog number	List price
1, 3R, 12	Metal	175	O/I & Off/On	Yes	Yes	OHF1C12	
4, 4X	Metal	175	O/I & Off/On	Yes	Yes	OHF1C4	

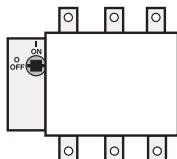
Cable

For use with:	Cable length (inches)	Catalog number	List price
OT30_ - OT400_	36	OXC1L36	
	48	OXC1L48	
	60	OXC1L60	
	72	OXC1L72	
	84	OXC1L84	
	96	OXC1L96	
	108	OXC1L108	

Door hardware NEMA 12

Description	Catalog number	List price
Safety door latch, 2 point, door less than 40" high	KDH2R	
Safety door latch, 3 point, door less than 40" high	KDH3R	

① Terminal lug kits are on page 1.21



CSA & UL Technical data for Non-fusible disconnect switches OT16F3 – OT160F3



CSA & UL

Catalog number	3 pole	OT16F3	OT25F3	OT40F3	OT63F3	OT80F3	OT30F3	OT60F3	OT100F3	OT160E3
*Approvals ^①	2 pole 3 pole 4 pole	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.14 CSA C22.2 No.14	N/A CSA C22.2 No.4 CSA C22.2 No.4	N/A CSA C22.2 No.4 CSA C22.2 No.4	N/A CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4
General purpose amp rating -40°C to 40°C pf = 0.7 – 0.8	A	16	25	40	60	80	30	60	100	125
Max. operating voltage	V	600	600	600	600	600	600VAC/250VDC	600VAC/250VDC	600VAC/250VDC	600VAC/250VDC
Max. horsepower rating/motor FLA current, pf = 0.4 – 0.5										
Three phase										
208V	HP/A	3/10.6	7.5/24.2	10/31	15/46	20/60	10/31	20/60	25/75	30/88
240V	HP/A	5/15.2	7.5/22	10/28	15/42	20/54	10/28	20/54	30/80	40/104
480V	HP/A	10/14	15/21	20/27	30/40	40/52	20/27	40/52	50/65	75/96
600V	HP/A	15/11	20/22	25/27	30/32	40/41	30/32	40/41	50/52	100/99
Single phase										
120V	HP/A	1/16	1.5/20	2/24	2/24	2/24	2/24	3/34	5/56	7.5/80
240V	HP/A	2/13	3/19	5/31	7.5/40	10/58	5/31	7.5/40	15/68	20/88
Short circuit rating with fuse										
Fuse type CC	kA	10 —	10 —	10 —	— —	— —	—	—	—	—
Fuse type J	kA	10 10	10 10	10 10	100 —	100 —	50	50	50	100
Fuse type T	kA	10 10	10 10	10 10	100 —	100 —	50	50	50	—
Fuse type RK1	kA	10 —	10 —	10 —	— —	— —	—	—	—	—
Fuse type RK5	kA	5 5	5 5	5 5	10 5	10 5	—	—	—	—
Fuse type L	kA	— —	— —	— —	— —	— —	—	—	—	—
Fuse type H	kA	— —	— —	— —	— 5	— 5	—	—	—	—
Fuse size	A	30 60 ^②	30 60 ^②	30 60 ^②	100 150	100 150	60	150	150	200
Short circuit rating with MCCB	kA	—	—	—	—	—	—	—	—	25
Endurances										
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	6000	6000	6000	6000	6000	6000	6000	6000
Min. Electrical endurance, pf = 0.40 – 0.50 operation cycles		1000	1000	1000	1000	1000	1000	②	②	②
Mechanical endurance operations		20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	16,000
Physical characteristics										
Weight, switches 3 pole	Kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	0.36	1.1
4 pole	Kg	0.15	0.15	0.15	0.35	0.35	0.5	0.5	0.5	1.3
Dimension, switches 3 pole	H mm	68	68	68	91	91	100	100	100	127
	W mm	35	35	35	53	53	70	70	70	126
	D mm	56	56	56	72	72	75	75	75	74
Shaft size — square □	mm	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6
Switch operating torque for rotary 3 pole switches	lb. in.	8.8	8.8	8.8	10.5	10.5	17.5	17.5	17.5	52.5
Terminal lug kits										
Wire range	AWG	Not required #18 – #8	Not required #18 – #8	Not required #18 – #8	Not required #14 – #1	Not required #14 – #1	Not required #14 – #4	Not required #14 – #4	Not required #8 – 1/0	Not required #8 – 1/0
Torque:										
Wire tightening	lb. in.	7	7	7	18	18	55	55	55	70
Lug mounting	lb. in.	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Auxiliary contacts		OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OBEA_ _
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	600	600	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10	10	10
AC maximum volt-ampere making	VA	7200	7200	7200	7200	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking	VA	720	720	720	720	720	720	720	720	720
NEMA ratings, DC		R300	R300	R300	R300	R300	R300	R300	R300	P600
DC rated voltage	VDC	300	300	300	300	300	300	300	300	600
DC thermal rated current	A	1	1	1	1	1	1	1	1	5
DC maximum make-break	VA	28	28	28	28	28	28	28	25	138
Torque:										
Wire tightening	lb. in	7	7	7	7	7	7	7	7	7
Wire range	AWG	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14

① CSA Approved switches are also UL Listed.

② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

③ Fuse size 70A for RK5



CSA & UL Technical data for Non-fusible disconnect switches OT200U03 – OETL-NF2000

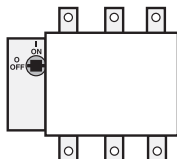
CSA & UL

Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
Approvals ^①	2 pole 3 pole 4 pole	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 CSA C22.2 No.4	CSA C22.2 No.4 CSA C22.2 No.4 IEC	CSA C22.2 No.4 CSA C22.2 No.4 IEC
General purpose amp rating pf = 0.7 – 0.8	40°C A	200	400	600	800	1200	1600	2000
Max. operating voltage	V	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	600VAC / 250VDC	480
Max. horsepower rating/Max. motor FLA current, pf = 0.4 – 0.5								
Three phase	208V HP/A 240V HP/A 480V HP/A 600V HP/A	60/178 75/192 150/180 200/192	100/286 125/312 250/302 350/336	150/416 200/480 450/515 500/472	200/528 250/602 500/590 500/576	— — — —	— — — —	— — — —
Single phase	120V HP/A 240V HP/A	— —	— —	— —	— —	— —	— —	— —
Short circuit rating with fuse								
Fuse type CC	kA	—	—	—	—	—	—	—
Fuse type J	kA	100 65	100	100	—	—	—	—
Fuse type T	kA	—	—	100	—	—	—	—
Fuse type RK1	kA	—	—	—	—	—	—	—
Fuse type RK5	kA	—	—	—	—	—	—	—
Fuse type L	kA	—	—	100	100	100	100	100
Fuse type H	kA	—	—	—	—	—	—	—
Max. fuse size	A	200 400	600	800	800	1200	2000	2000
Short circuit rating with MCCB	kA	15	30	50	50	50	65	65
Endurances								
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	1000	1000	500	500	500	500
Min. Electrical endurance, pf = 0.40 – 0.50 operation cycles		②	②	②	②	②	②	②
Mechanical endurance operations		20,000	16,000	10,000	6000	6000	6000	1200
Physical characteristics								
Weight, switches	3 pole Kg 4 pole Kg	1.2 1.5	2.2 2.8	5.2 6.5	15.2 19.5	15.2 22	37 68	37 68
Dimension, switches	3 pole H mm W mm D mm	170 170 84	220 221 105	250 266 139	372 334 141	372 334 141	636 468 271	636 468 271
Shaft size — square	mm	6 x 6	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches	lb. in.	62	142	184	184	184	438	438
Terminal lug kits		OZXA-200	OZXA-400	OZXA-800	OZXA-1200	OZXA-1200	OZXA-28	OZXA-28/2
Wire range	AWG	#4-300kcmil ^②	#2-600kcmil	(2)#2-600kcmil	(4)#2-600kcmil	(4)#2-600kcmil	(4)#2-600kcmil	(8)#2-600kcmil
Torque:								
Wire tightening	lb. in.	200	375	375	375	375	375	375
Lug mounting	lb. in.	75	240	240	240	240	230	230
Auxiliary contacts		OA1G-__	OA1G-__	OA1G-__	OA1G-__	OA1G-__	OZ XK-__	OZ XK-__
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10
AC maximum volt-ampere making	VA	7200	7200	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking	VA	720	720	720	720	720	720	720
NEMA ratings, DC		P600	P600	P600	P600	P600	P600	P600
DC rated voltage	VDC	600	600	600	600	600	600	600
DC thermal rated current	A	5	5	5	5	5	5	5
DC maximum make-break	VA	138	138	138	138	138	138	138
Torque:								
Wire tightening	lb. in.	7	7	7	7	7	7	7
Wire range	AWG	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14

① CSA Approved switches are also UL Listed.

② CSA 22.2 No. 4 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

③ Multi-tap lug available, please see pg. 1.21.



IEC Technical data for Non-fusible disconnect switches OT16F3 – OT160F3



IEC

Catalog number	3 pole	OT16F3	OT25F3	OT40F3	OT63F3	OT80F3	OT100F3	OT160E3
Rated insulation and operational voltage, AC20 and DC20	40°C							
	V	750	750	750	750	750	750	750
Rated impulse withstand voltage	kV	8	8	8	8	8	8	12
Rated thermal current, I_{th}								
AC 20/DC 20	open	A	25	32	40	63	80	115
	40°C enclosed	A	25	32	40	63	80	115
	60°C enclosed	A	25	32	40	63	80	115
Rated operational currents								
AC-22A	Up to 415 V	A	16	25	40	63	80	100
	440 - 500 V	A	16	25	40	63	80	100
	690 V	A	16	25	40	63	80	100
AC-23A	Up to 415 V	A	16	20	23	45	75	80
	440 - 500 V	A	16	20	23	45	58	60
	690 V	A	10	11	12	20	20	40
Rated operational currents/poles in series								
DC21A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2
	220V	A	16/3	25/3	32/3	45/4	63/4	100/4
	440V	A	16/4	25/6	32/6	—	—	—
	750V	A	16/8	25/8	32/8	—	—	—
DC22A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2
	220V	A	16/3	25/3	32/4	45/4	63/4	100/4
	440V	A	16/6	25/6	—	—	—	—
	750V	A	16/8	25/8	—	—	—	—
DC23A	48V	A	16/1	25/1	32/1	45/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	100/2
	220V	A	16/4	25/4	32/4	45/4	63/4	100/4
	440V	A	10/4	10/4	10/4	10/4	10/4	10/4
	750V	A	16/8	—	16/8	16/8	—	—
Rated operational power								
AC23A	230V	kW	3	4	5.5	11	22	22
	400/415V	kW	7.5	9	11	22	37	37
	500V	kW	7.5	9	11	22	37	37
	690V	kW	7.5	9	11	15	18.5	37
Short-circuit current	kA	50	50	50	50	50	50	100
with back-up fuses of size	A	25	32	40	63	80	100	200
Rated short-circuit making capacity, prospective peak value, I_{cm} 690V	kA	0.7	0.7	0.7	1.4	2.1	3.6	12
Rated short time withstand current,								
RMS I_{cw}	0.2s	kA	—	—	—	—	—	7
RMS I_{cw}	1.0s	kA	0.5	0.5	0.5	1	1.5	2.5
AC breaking capacity								
pf = 0.35	≤415V	A	128	160	184	240	304	640
	≤500V	A	128	160	184	240	256	480
	≤690V	A	80	88	96	160	160	320
DC breaking capacity/poles in series								
L/R = 15ms	≤48V	A	64/1	100/1	128/1	180/1	252/1	400/1
	≤110V	A	64/2	100/2	128/2	180/2	180/2	400/2
	≤220V	A	64/3	100/4	128/4	180/4	180/4	252/4
	≤440V	A	40/4	40/4	40/4	40/4	40/4	—
	≤750V	A	64/8	64/8	64/8	—	—	—



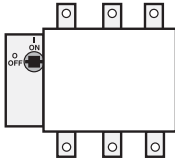
IEC Technical data

for Non-fusible disconnect switches

OT200 – OETL-NF2000

IEC

Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OT800U03	OT1200U03	OETL-NF1600	OETL-NF2000
Rated insulation and operational voltage, AC20 and DC20	40°C V	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage	kV	12	12	12	12	12	8	8
Rated thermal current, I _{th}								
AC 20/DC 20	open A	250	400	800	1250	1600	2500	3150
	40°C enclosed A	250	400	800	1250	1600	2300	2300
	60°C enclosed A	—	—	—	1000	1250	1950	1950
Rated operational currents								
AC 22A	Up to 415 V A	250	400	800	1000	1600	2500	2500
	440 - 500 V A	250	400	800	1000	1600	2500	2500
	690 V A	250	400	800	800	1250	—	—
AC 23A	Up to 415 V A	250	400	800	800	1000	1600	1600
	440 - 500 V A	250	400	800	800	1000	—	—
	690 V A	250	400	800	650	650	—	—
Rated operational currents								
DC21A	48V A	250/1	400/2	800/2	—	—	2500/2	2500/2
	110V A	250/2	400/2	800/2	—	—	2500/2	2500/2
	220V A	250/2	400/2	800/2	—	—	2500/2	2500/2
	440V A	250/3	400/3	800/3	—	—	2500/3	2500/3
	750V A	250/4	—	—	—	—	—	—
DC22A	48V A	250/1	400/2	800/2	—	—	2500/2	2500/2
	110V A	250/2	400/2	800/2	—	—	2500/2	2500/2
	220V A	250/2	400/2	800/2	—	—	2500/2	2500/2
	440V A	250/3	400/3	800/3	—	—	—	—
	750V A	250/4	—	—	—	—	—	—
DC23A	48V A	250/1	630/2	—	—	—	—	—
	110V A	250/2	630/2	—	—	—	—	—
	220V A	250/2	630/2	—	—	—	—	—
	440V A	250/3	—	—	—	—	—	—
	750V A	250/4	—	—	—	—	—	—
Rated operational power								
AC23A	230V kW	75	110	—	—	250	250	250
	400/415V kW	132	220	450	560	400	400	400
	500V kW	170	280	560	710	450	450	450
	690V kW	240	390	800	800	—	—	—
Short-circuit current	kA	100	100	100	50	50	50	50
with back-up fuses of size	A	355	500	800	1000	1250	1600	2000
Rated short-circuit making capacity, prospective peak value, I _{cm} 690V	kA	30	65	80	110	110	105	105
Rated short time withstand current,								
RMS I _{cw} 0.2s	kA	15	24	36	50	56	—	—
RMS I _{cw} 1.0s	kA	8	15	20	50	50	80	80
AC breaking capacity								
pf = 0.35	≤415V A	2000	3200	5760	10000	10000	6400	6400
	≤500V A	2000	3200	5600	10000	10000	6400	6400
	≤690V A	2000	3200	5600	6400	6400	4800	4800
DC breaking capacity								
	48V A	1000/2	—	—	—	—	—	—
	110V A	1000/2	—	—	—	—	—	—
	220V A	1000/2	1600/2	2000/2	1900/2	2600/2	2600/2	2600/2
	440V A	1000/3	1600/3	2000/3	—	—	—	—
	750V A	1000/4	—	—	—	—	—	—



Selecting switches per CEC & IEC



Selecting switches per CEC

Section 28 of the Canadian Electric Code includes two methods for properly sizing disconnect switches:

1. Single motor application

A properly sized disconnect switch for a single motor will:

- have an ampere rating greater than or equal to 115 percent of the rated motor full load current; or,
- have a HP rating greater than or equal to the rated motor HP (at applied voltage) if the disconnect switch under consideration is HP rated.

2. Combination load application

A properly sized disconnect switch for a combination load will be selected by adding all the simultaneous individual loads in the circuit under consideration.

Using motor nameplate information, load information, and tables from section 28 of the CEC, determine one equivalent full load current and plus 15% of the largest motor determine an equivalent HP rating. Select a disconnect switch:

- greater than or equal to 115 percent of the equivalent full load current; and,
- greater than or equal to the equivalent HP rating.

Selecting switches per IEC

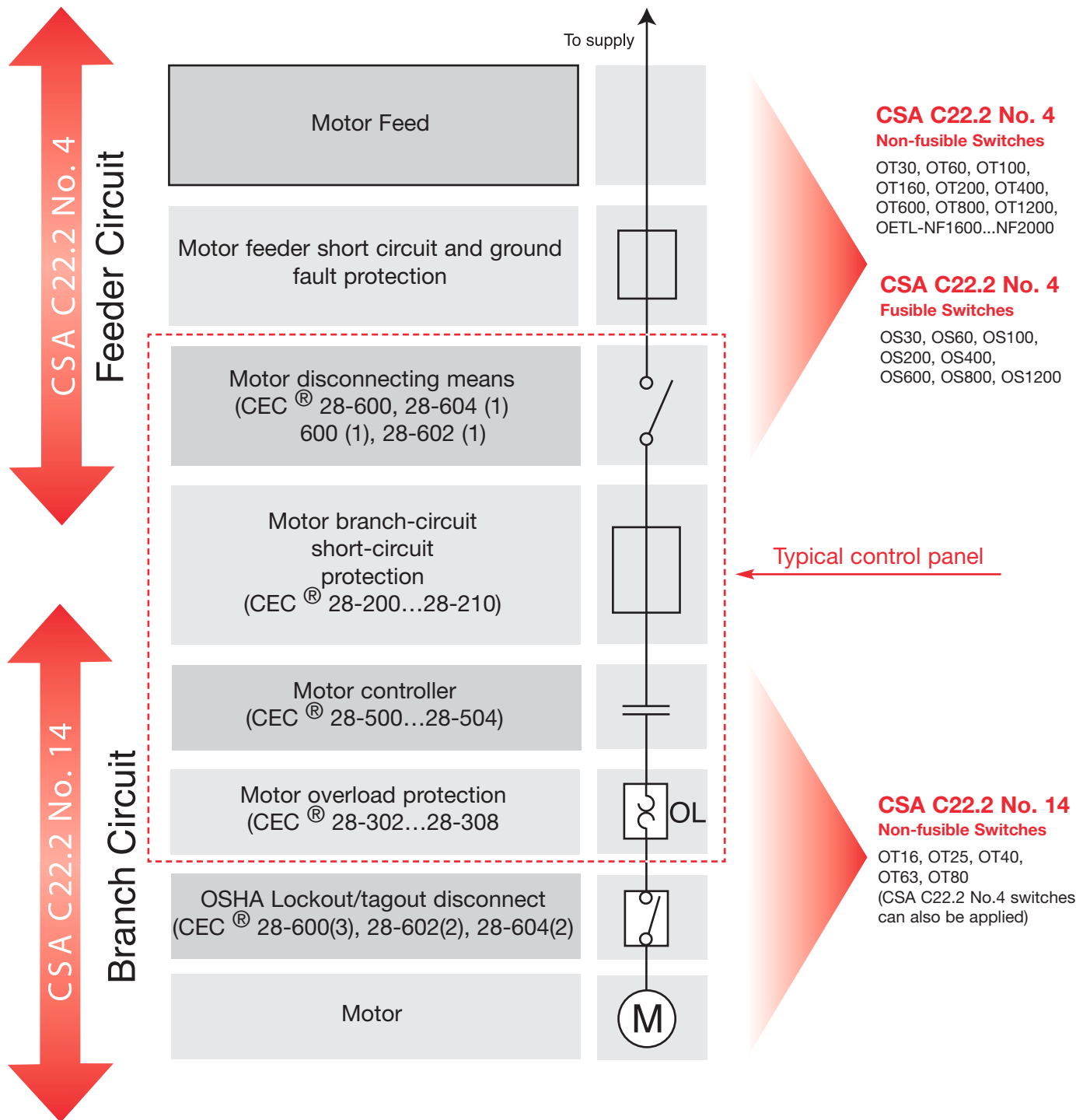
Utilization categories

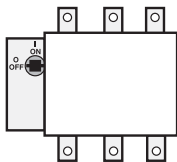
Nature of current	Utilization category		Typical applications
	Frequent operation	Infrequent operation	
Alternating current	AC-20A	AC-20B	- Connecting and disconnecting under no-load conditions - Switching of resistive loads including moderate overloads (PF > 0.95) - Switching of mixed resistive and inductive loads, including moderate overloads (PF > 0.65) - Switching of motor loads or other highly inductive loads (PF > 0.45 below 100A; PF > 0.35 above 100A)
	AC-21A	AC-21B	
	AC-22A	AC-22B	
	AC-23A	AC-23B	
Direct current	DC-20A	DC-20B	- Connecting and disconnecting under no-load conditions - Switching of resistive loads including moderate overloads (L/R < 1ms) - Switching of mixed resistive and inductive loads, including moderate overloads e.g., shunt motors (L/R < 2.5ms) - Switching of highly inductive loads e.g., series motors (L/R < 15ms)
	DC-21A	DC-21B	
	DC-22A	DC-22B	
	DC-23A	DC-23B	
Mechanical endurance	Number of operations	Number of operations	
100A	10,000	2000	
315A	8000	1600	
>315A	2000	400	

•Category AC-23 includes occasional switching of individual motors. The switching of capacitors of tungsten filament lamps shall be subject to agreement between manufacturer and user.



Use of CSA C22.2 No. 4 & No. 14 Disconnects According to CEC[®] Section 28



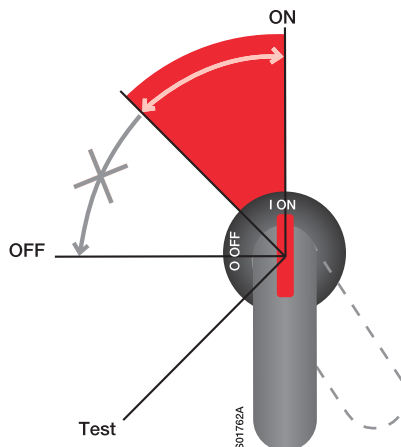


Auxiliary contact timing diagrams OT16 – OT160

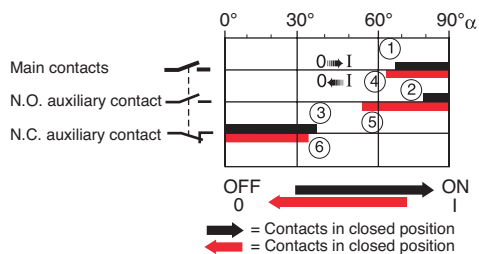


Handle indications and functions

- The handle indicates the position of the contacts with complete reliability in all situations.
If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.
- When operating the switch to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.

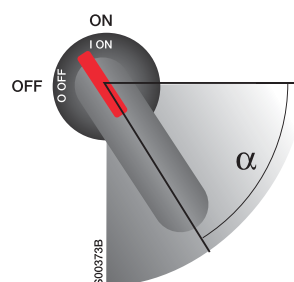


ON and OFF-functions of main and auxiliary contacts



Contacts closing

- ① Main contacts close
- ② N.O. auxiliary contacts close
- ③ N.C. auxiliary contacts open



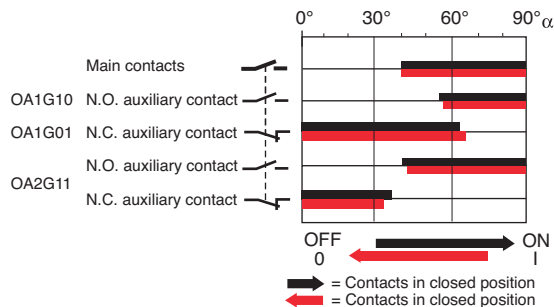
Contacts opening

- ④ Main contacts open
- ⑤ N.O. auxiliary contacts open
- ⑥ N.C. auxiliary contacts close

OT16, OT25, OT40

Catalog number	Auxiliary contact	Contact configuration
OT16, OT25, OT40	OA1G10	1 N.O.
	OA1G01	1 N.C.
	OA2G11	1 N.O. & 1 N.C.

Early break



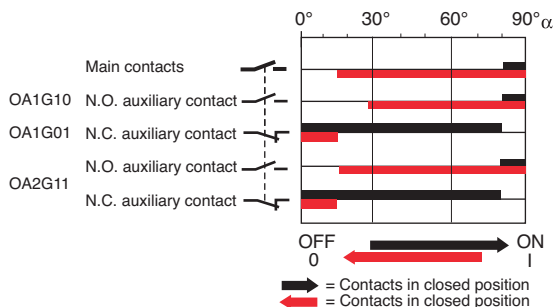


Auxiliary contact timing diagrams for Non-fusible disconnect switches OT200 - OETL-NF2000

OT63, OT80, OT30, OT60, OT100

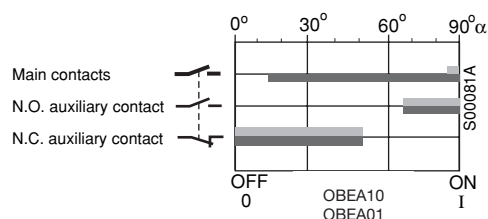
Catalog number	Auxiliary contact	Contact configuration
OT63, OT80 OT30, OT60, OT100	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.

Early break



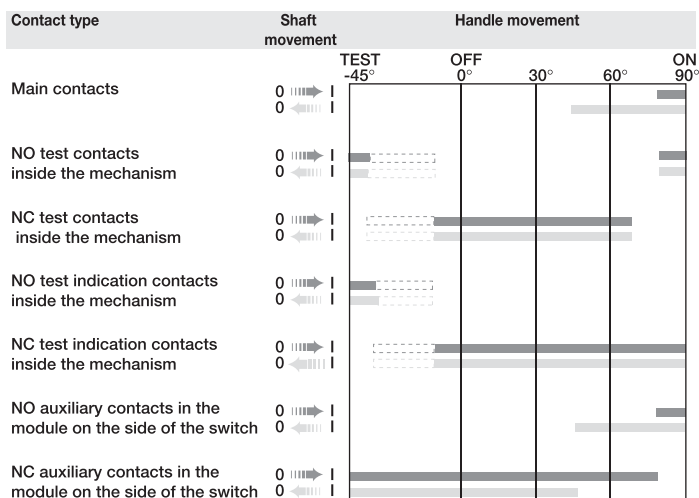
OT160

Catalog number	Auxiliary contact	Contact configuration
OT160	OBEA10 OBEA01	1 N.O. 1 N.C.



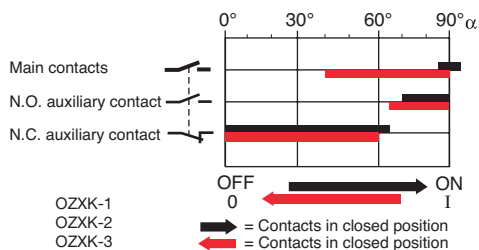
OT200U03 – OT1200U03

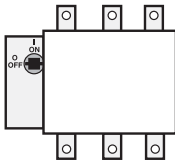
Catalog number	Auxiliary contact	Contact configuration
OT200U03 – OT1200U03	OA1G10 OA3G01	1 N.O. 1 N.C.



OETL-NF1600 – OETL-NF2000

Catalog number	Auxiliary contact	Contact configuration
OETL-NF1600 – OETL-NF2000	OZXK-1 OZXK-2 OZXK-3	1 N.O. & 1 N.C. 2 N.O. & 2 N.C. 4 N.O. & 4 N.C.





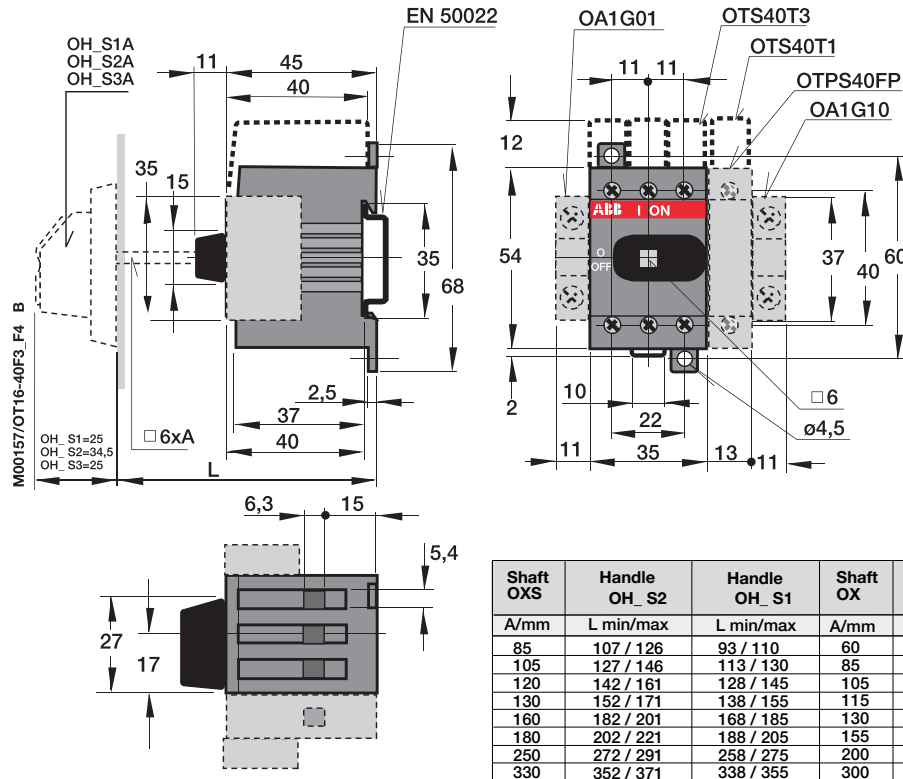
Approximate dimensions

Non-fusible disconnect switches

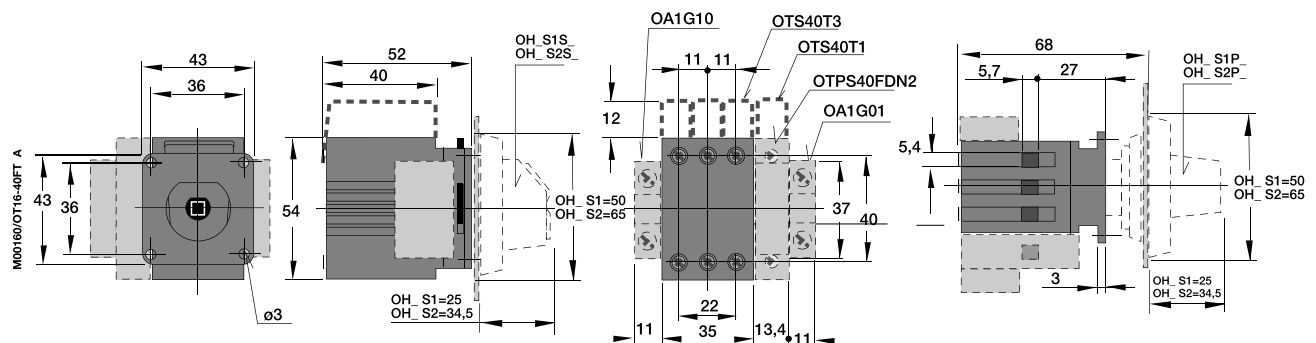
OT16 – OT40



OT16F3 – OT40F3 — base & DIN rail mounted switch



OT 16...40FT3, _FT4





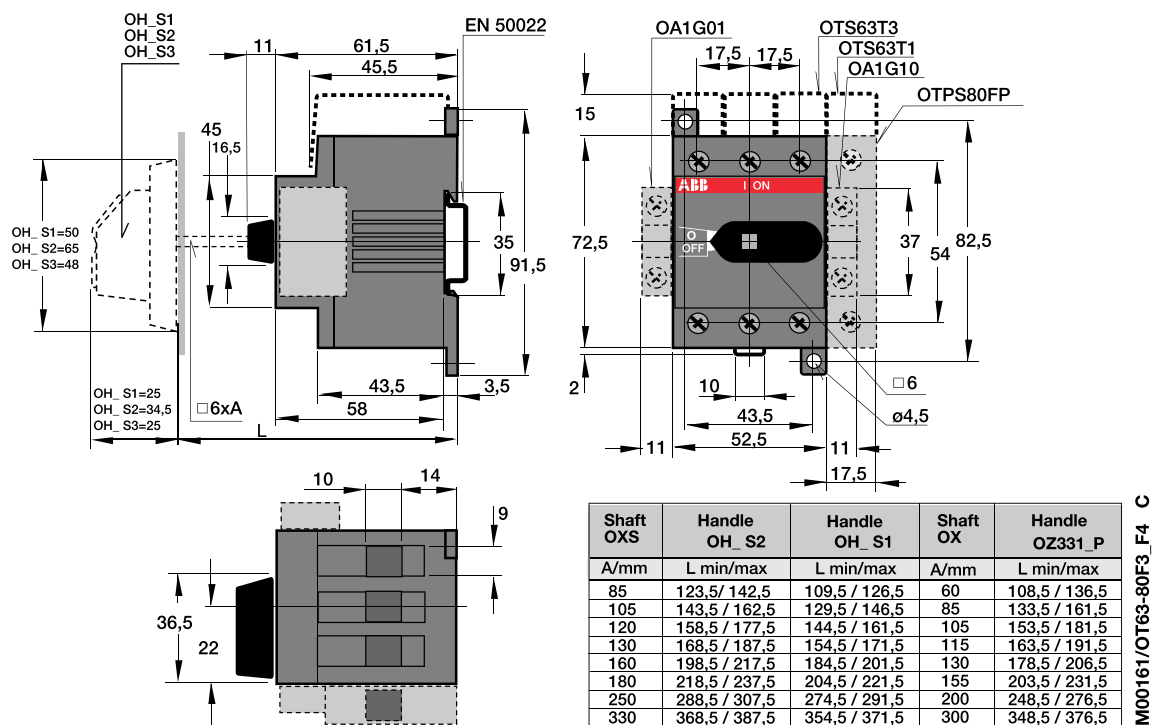
Approximate dimensions

Non-fusible disconnect switches

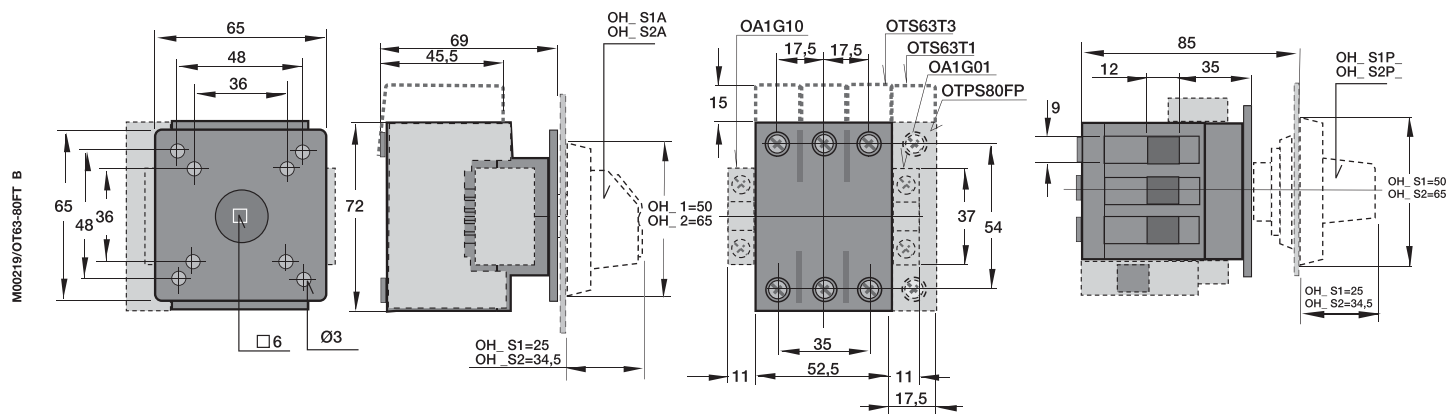
OT63 – OT80

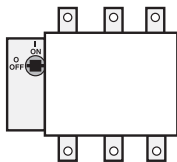
← 00 → Millimeters

OT 63...80F3, _F4



OT63FT3 – OT80FT3 – door mounted switch





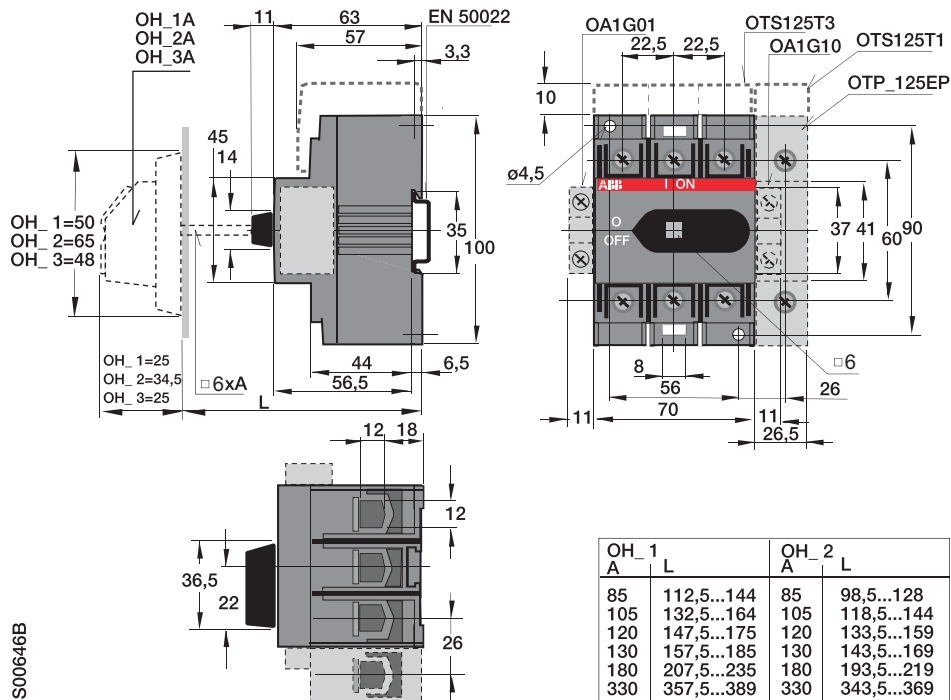
Approximate dimensions

Non-fusible disconnect switches

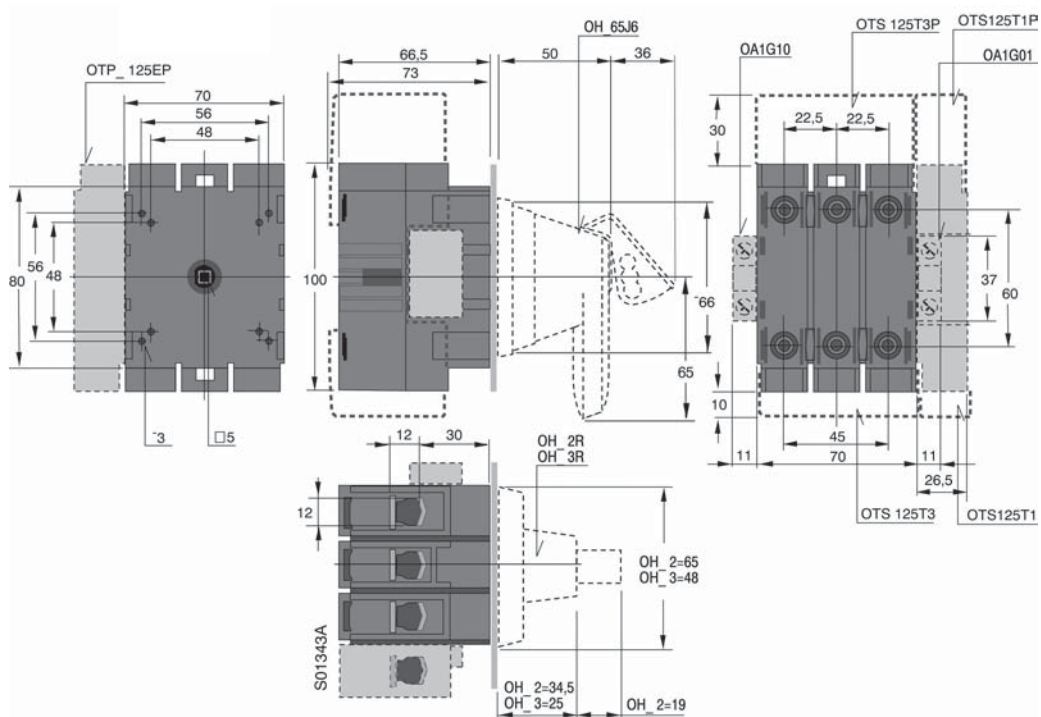
OT30 – OT100



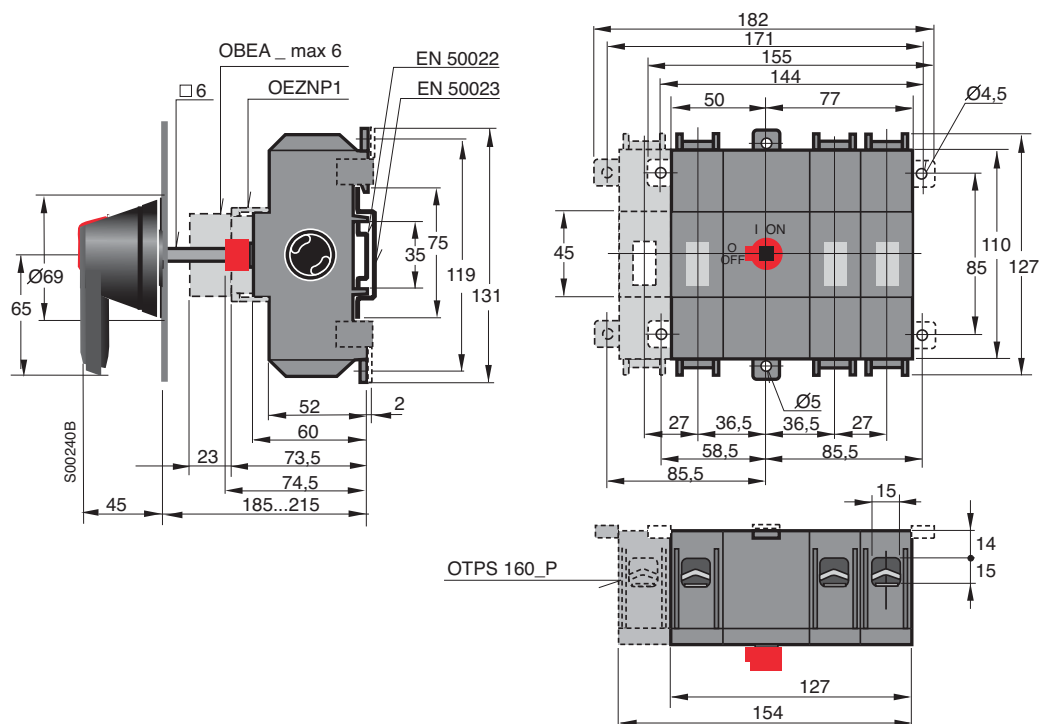
OT30F3 – OT60F3 – OT100F3 — base & DIN rail mounted switch



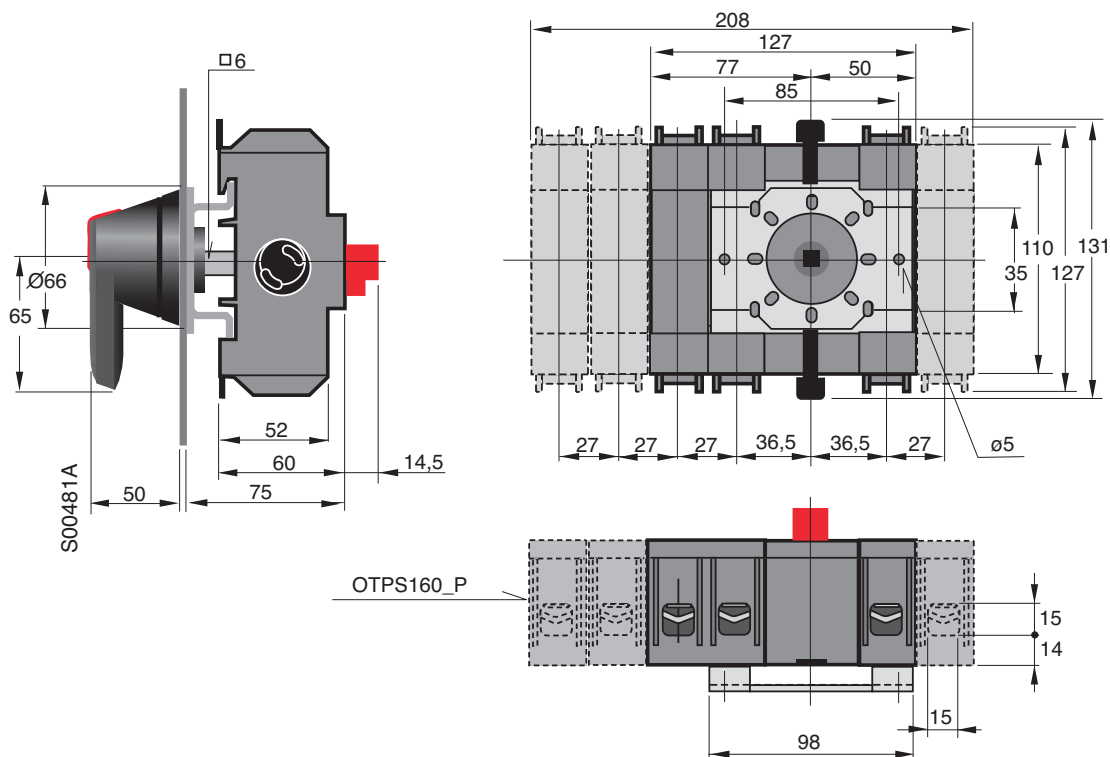
OT30FT3 – OT60FT3 – OT100FT3 — door mounted switches



OT160E3 — base & DIN rail mounted switch



OT160ET3 — Door mounted switch





Technical drawing of the M00159/OT16-40F6_8 D handle assembly, showing three views: side view, top view, and front view. The drawing includes dimensions and component labels.

Side View Dimensions: 11, 57, 40, 35, 15, 65, 19, 34,5, 12, 37, 2,5, 40, 35, 68, 12, 11, 11, 29,5, 12, 54, 2, 11, 13, 70, 13, 11, 5,4, 15, 6,3, 17, 27.

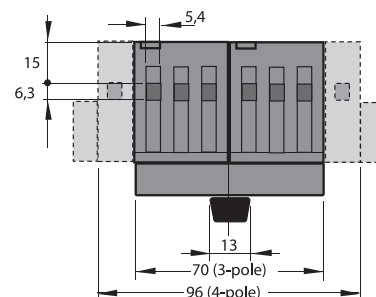
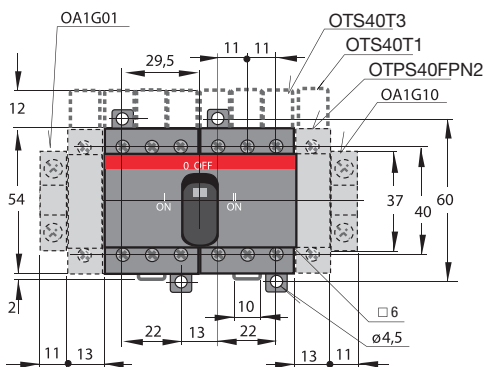
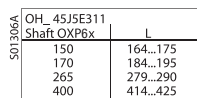
Top View Dimensions: 11, 57, 40, 35, 15, 65, 19, 34,5, 12, 37, 2,5, 40, 35, 68, 12, 11, 11, 29,5, 12, 54, 2, 11, 13, 70, 13, 11, 5,4, 15, 6,3, 17, 27.

Front View Dimensions: 11, 57, 40, 35, 15, 65, 19, 34,5, 12, 37, 2,5, 40, 35, 68, 12, 11, 11, 29,5, 12, 54, 2, 11, 13, 70, 13, 11, 5,4, 15, 6,3, 17, 27.

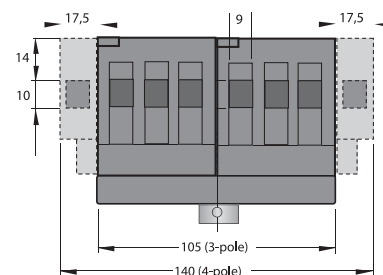
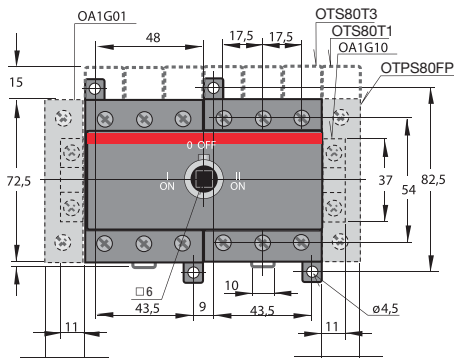
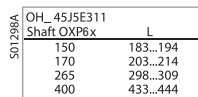
Component Labels: EN 50022, OA1G01, OTS40T3, OTS40T1, OTS40FPN1, OTS40FPN2, OA1G10, OH_S2A, 6xA, 6, 4,5, 17, 27.

Shaft OX S	Handle OH_S2	Handle OH_S1	Shaft OX	Handle OZ31_P
A/mm	L min/max	L min/max	A/mm	L min/max
85	110 / 120	124 / 136	60	109 / 130
105	130 / 140	144 / 156	85	134 / 155
120	145 / 155	159 / 171	105	154 / 175
130	155 / 165	169 / 181	115	164 / 185
160	185 / 195	199 / 211	130	179 / 200
180	205 / 215	219 / 231	155	204 / 225
250	275 / 285	289 / 301	200	249 / 270
330	355 / 365	369 / 381	300	349 / 370

[illegible]



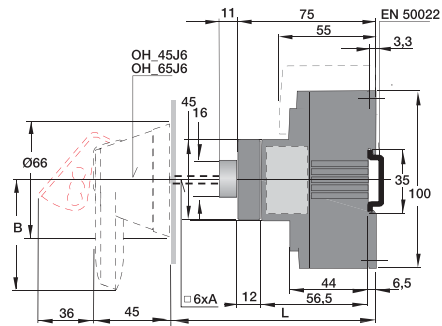
OT63, 80F3C & F4C – Transfer switches



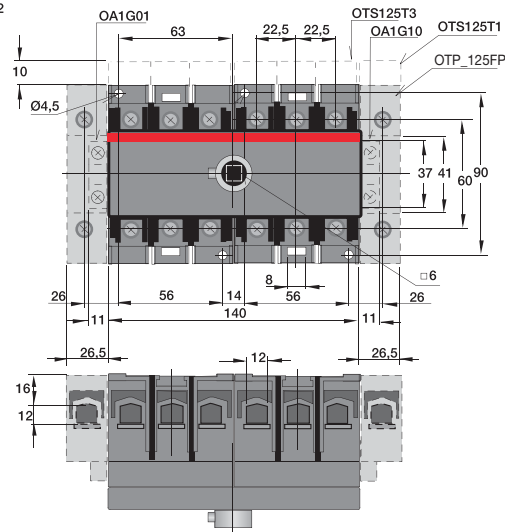


OT30, 60, 100F6 & F8 — 6 & 8 Pole switches

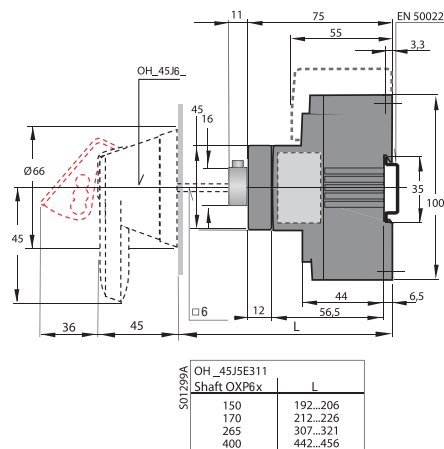
OT100...125F6 OT100...125F8



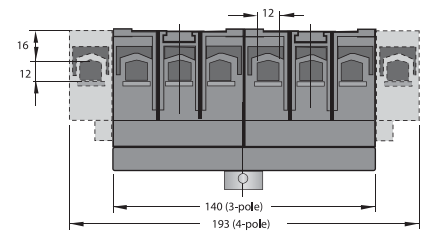
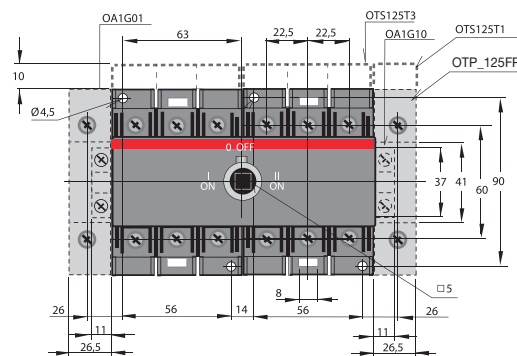
	OH_45J6	OH_65J6
	A	L
S01366A	130	165...175
	150	185...195
	210	245...255
	290	325...335
	360	395...405
	430	465...475



OT30, 60, 100F3C & F4C



501299A	OH_45JE311	
	Shaft OXP6x	L
	150	192...206
	170	212...226
	265	307...321
	400	442...456





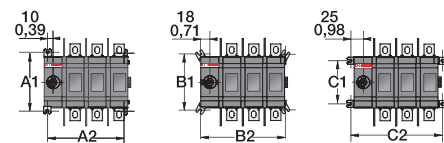
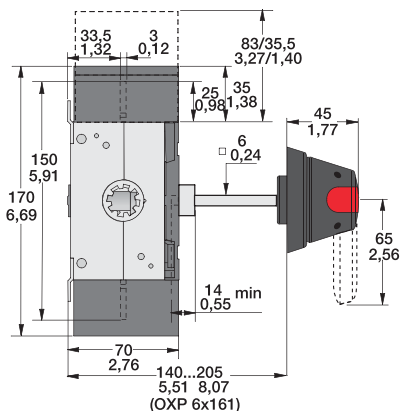
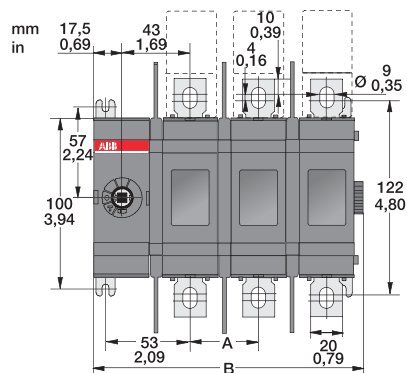
Approximate dimensions

Non-fusible disconnect switches

OT200_ & OT400_

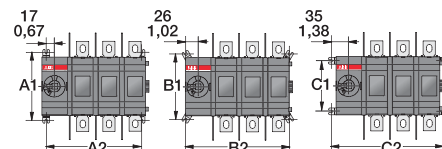
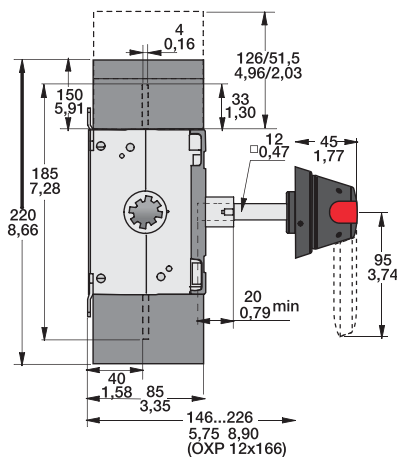
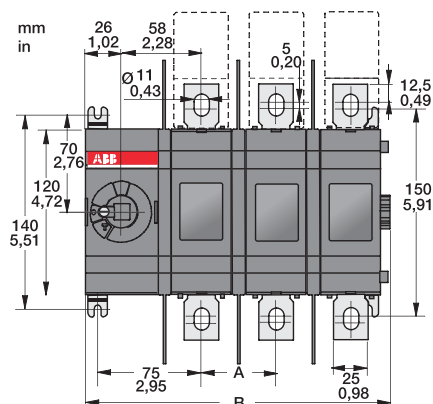
← 00 → Millimeters

OT200U_P

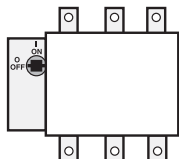


M0009/OT200U01_04 E	OT200			
	U01	U02	U03	U04
	mm / in	mm / in	mm / in	mm / in
A	-	43 / 1,69	43 / 1,69	43 / 1,69
B	83,5 / 3,24	126,5 / 4,98	169,5 / 6,67	212,5 / 8,37
A1	114 / 4,49	114 / 4,49	114 / 4,49	114 / 4,49
A2	63 / 2,48	106 / 4,17	149 / 5,87	192 / 7,56
B1	109,5 / 4,31	109,5 / 4,31	109,5 / 4,31	109,5 / 4,31
B2	79 / 3,11	122 / 4,80	165 / 6,50	208 / 8,19
C1	84 / 3,31	84 / 3,31	84 / 3,31	84 / 3,31
C2	93 / 3,66	136 / 5,35	179 / 7,05	222 / 8,74

OT400U_P



M00019/OT400U01_04 E	OT400			
	U01	U02	U03	U04
	mm / in	mm / in	mm / in	mm / in
A	-	54 / 2,13	54 / 2,13	54 / 2,13
B	113 / 4,45	167 / 6,58	221 / 8,70	275 / 10,83
A1	140 / 5,51	140 / 5,51	140 / 5,51	140 / 5,51
A2	88 / 3,47	142 / 5,59	196 / 7,72	250 / 9,84
B1	135 / 5,32	135 / 5,32	135 / 5,32	135 / 5,32
B2	106 / 4,17	160 / 4,17	214 / 8,43	268 / 10,55
C1	104 / 4,09	104 / 4,09	104 / 4,09	104 / 4,09
C2	124 / 4,88	178 / 7,01	232 / 9,13	286 / 11,27



Approximate dimensions

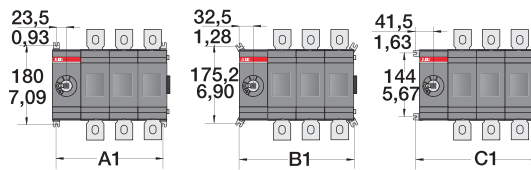
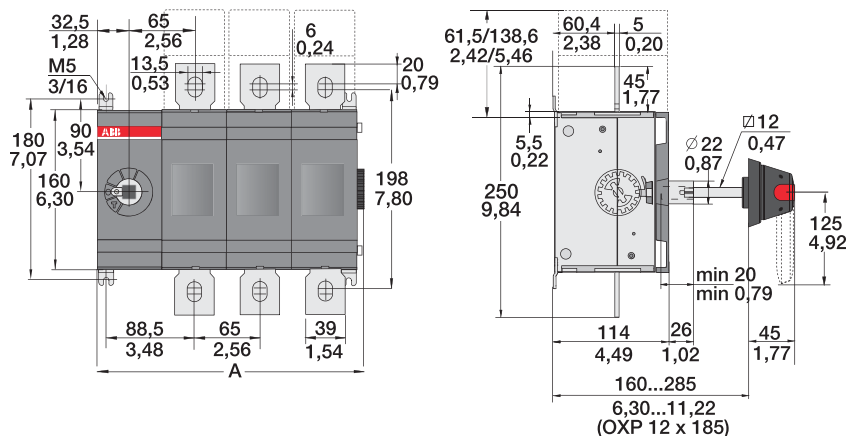
Non-fusible disconnect switches

OT600U_P ... OT1200U_P



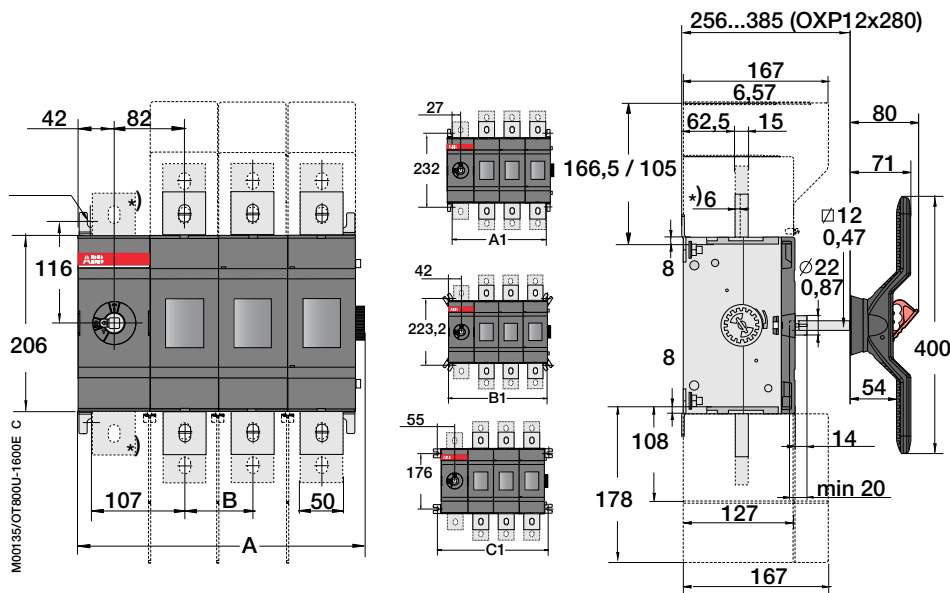
OT600U_P

mm
in



OT 600				
	U01	U02	U03	U04
	mm/in	mm/in	mm/in	mm/in
A	136/5,35	201/7,91	266/10,47	331/13,03
A1	112/4,41	177/6,97	242/9,53	307/12,09
B1	130/5,12	195/7,68	260/10,24	325/12,80
C1	148/5,83	213/8,39	278/10,95	343/13,50

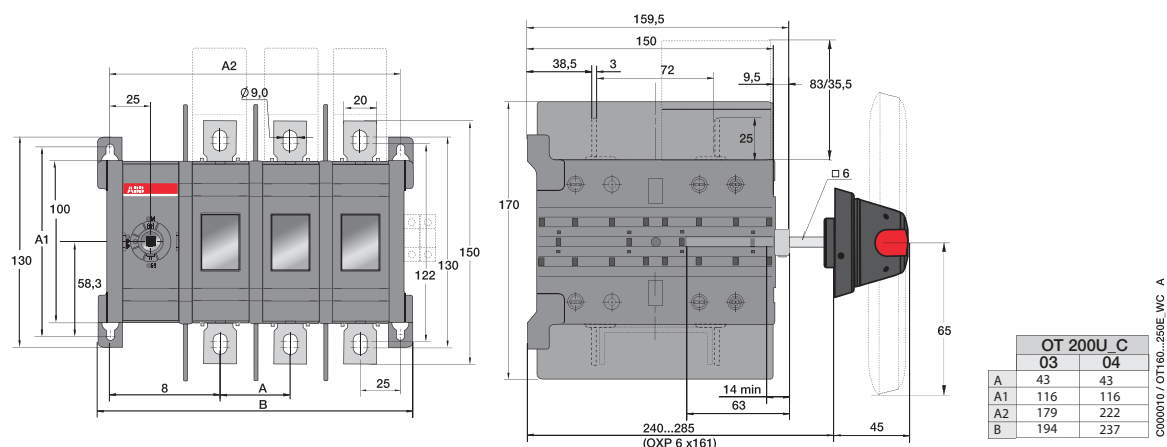
OT800U_P, OT1200U_P



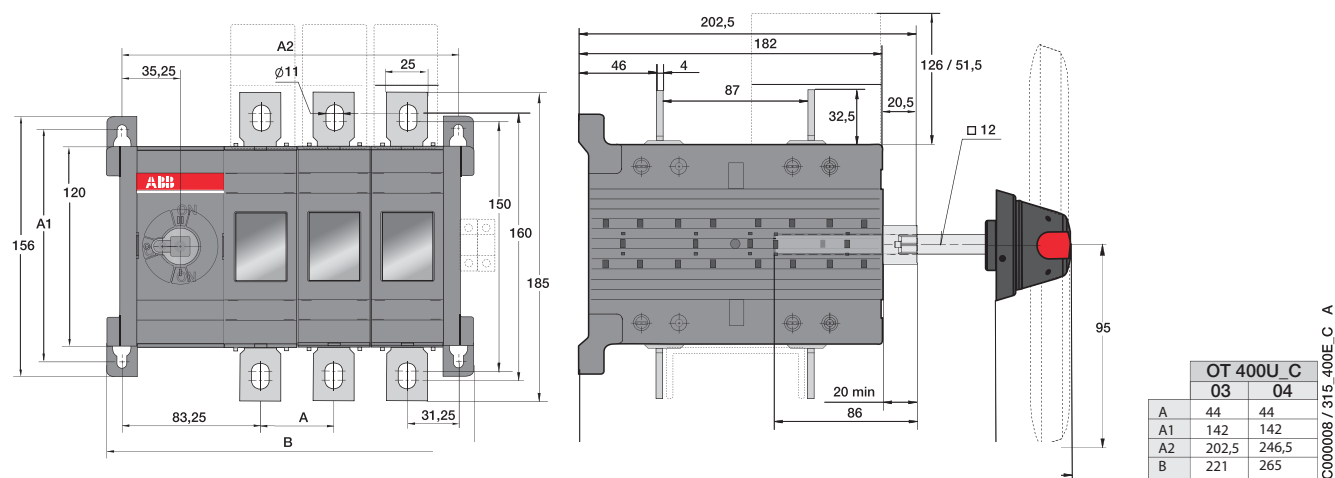
OT 800 / 1200U_P												
	01	02	03	04	11	12	13	22	03W4	04W4	03WB	04WB
A	mm	174,50	254,50	334,50	414,50	254,50	334,50	414,50	414,50	454,50	594,50	544,50
	in	6,87	10,02	13,17	16,32	10,02	13,17	16,32	16,32	17,89	23,41	21,44
B	mm	80	80	80	80	80	80	80	140	140	185	185
	in	3,15	3,15	3,15	3,15	3,15	3,15	3,15	5,51	5,51	7,28	7,28
A1	mm	134	214	294	374	294	374	374	414	414	554	504
	in	5,28	8,43	11,57	14,72	11,57	14,72	14,72	16,30	16,30	21,81	19,84
B1	mm	164	244	324	404	244	324	404	404	444	584	534
	in	6,46	9,61	12,76	15,91	9,61	12,76	15,91	15,91	17,48	22,99	21,02
C1	mm	190	270	350	430	270	350	430	430	470	610	560
	in	7,48	10,63	13,78	16,93	10,63	13,78	16,93	16,93	18,50	24,02	22,05

ABB Oy, Low Voltage Products
Taku Prepared
T Rintamäenpää
07-04-17
Tarkastettu
Tarkastettu
Hyväksytty
Hyväksytty
Päivitetty No. 13 OT800U-1600E C
Document No.

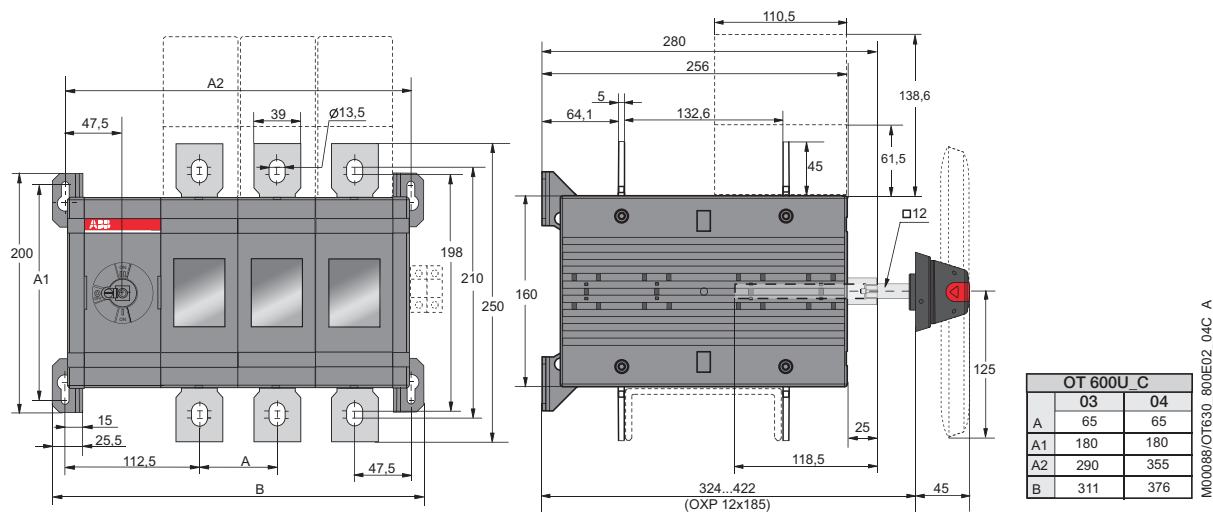
OT200U03/04CP

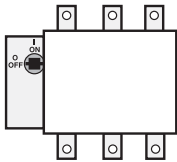


OT400U03/04CP



OT600U03/04CP





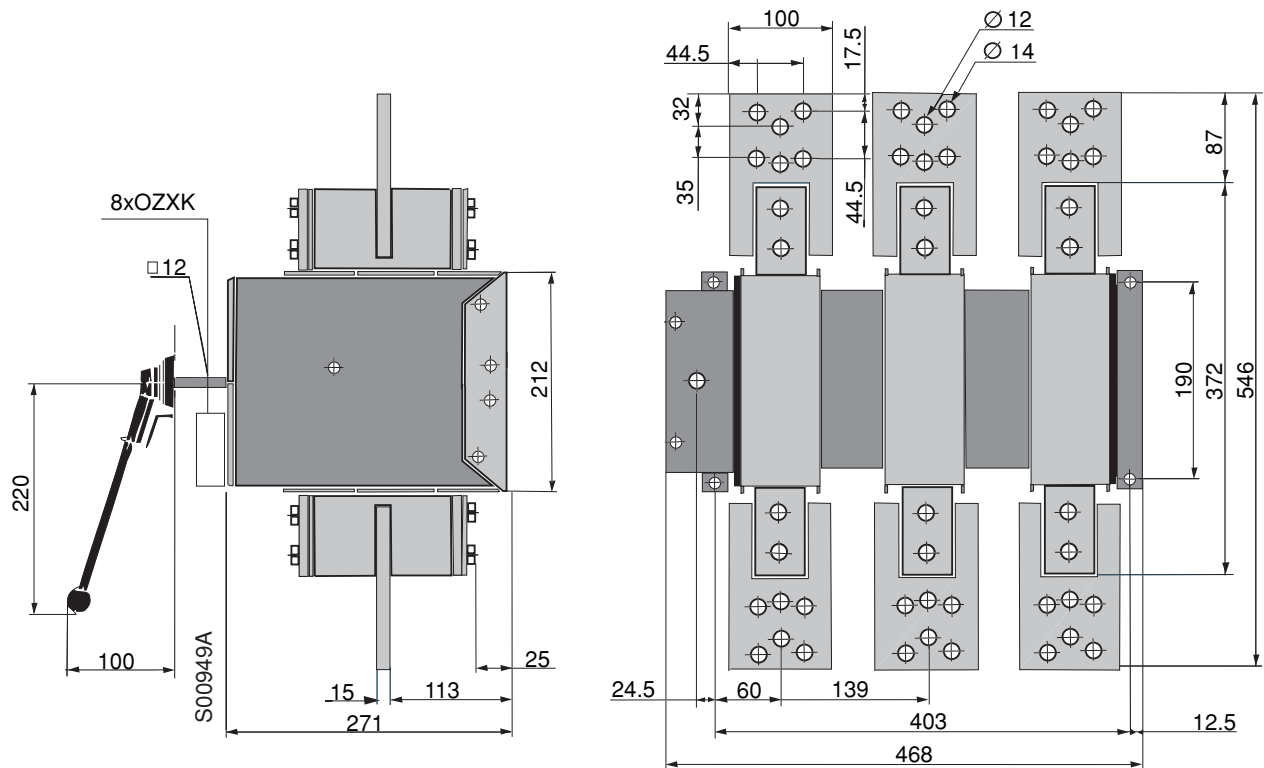
Approximate dimensions

Non-fusible disconnect switches

OETL-NF1600 & OETL-NF2000



OETL-NF1600P and OETL-NF2000P

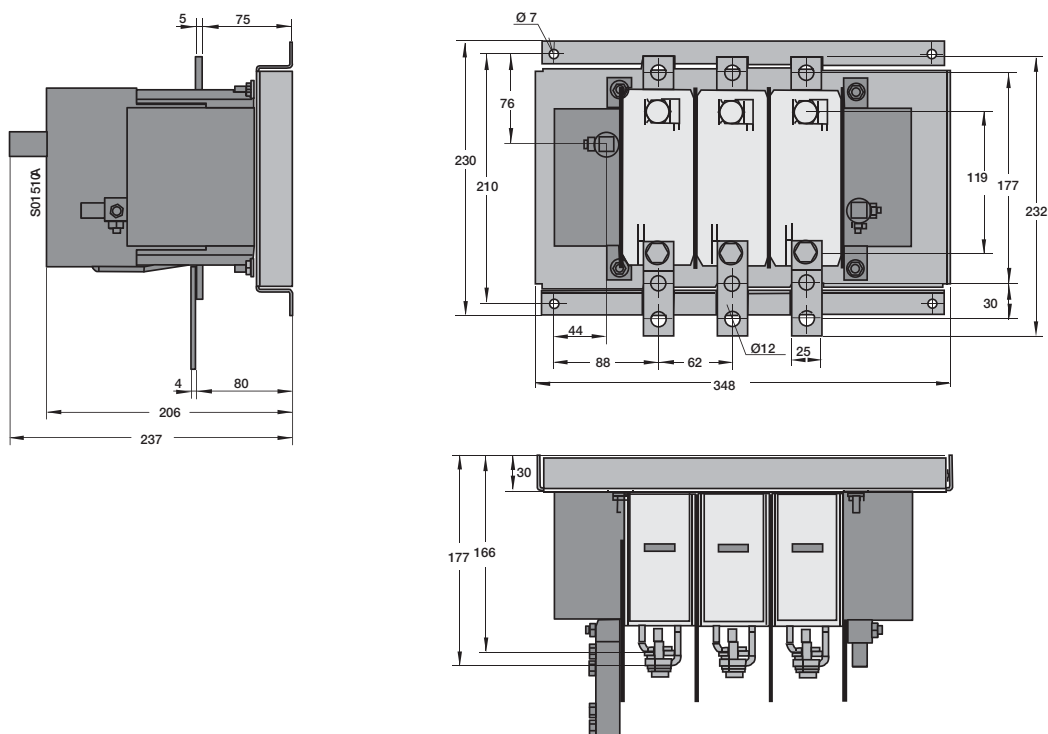




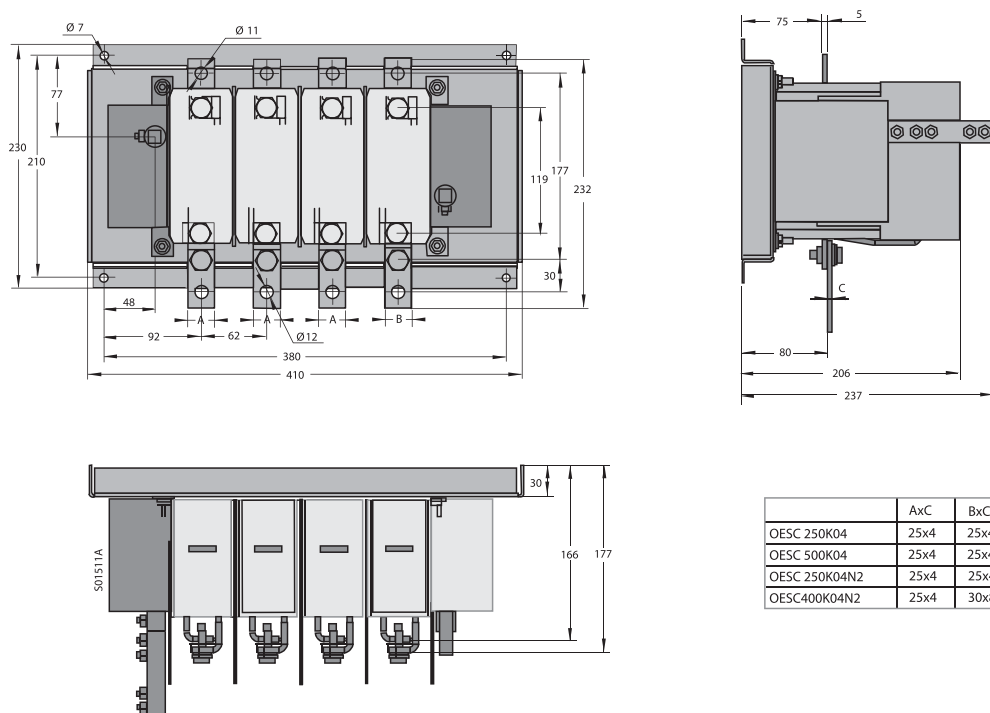
Approximate dimensions OESC250 — OESC500

← 00 → Millimeters

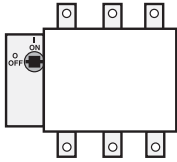
OESC250 – OESC500 – 3 pole



OESC250 – OESC500 – 4 pole



	AxC	BxC
OESC 250K04	25x4	25x4
OESC 500K04	25x4	25x4
OESC 250K04N2	25x4	25x4
OESC400K04N2	25x4	30x8

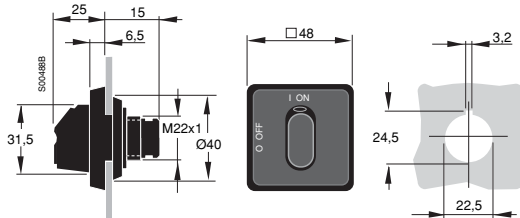


Approximate dimensions Selector Handles

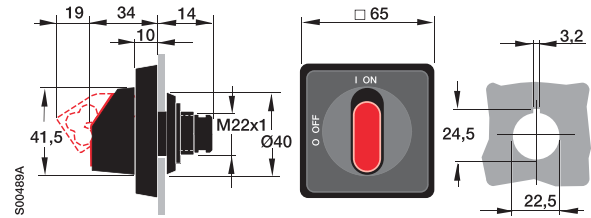


Selector handles for base and DIN rail mounted switches

OH_3A

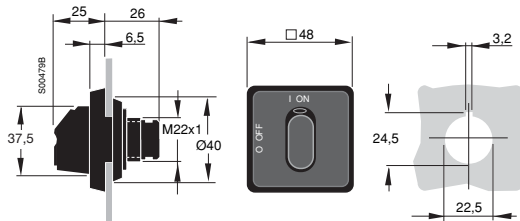


OH_2A

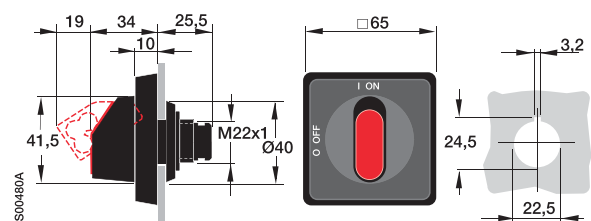


Selector handles for door mounted switches (Snap-on mounting)

OH_3P

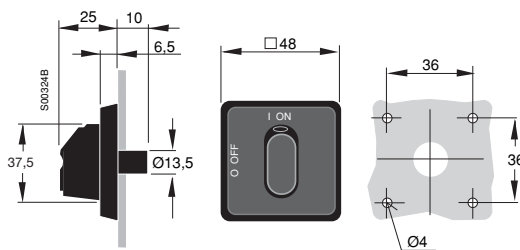


OH_2P

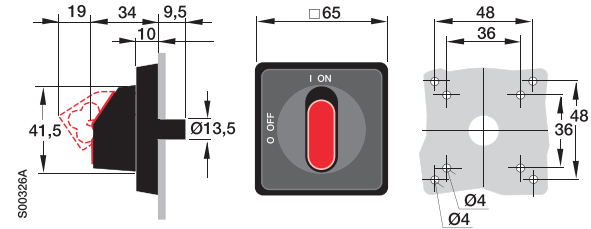


Selector handles for door mounted switches (Snap-on mounting)

OH_3R



OH_2R





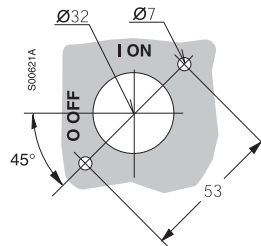
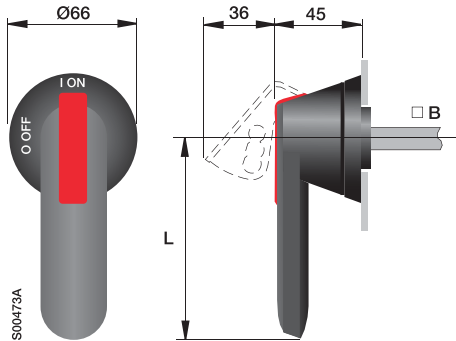
Approximate dimensions Pistol Handles

← 00 → Millimeters

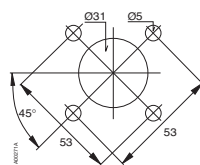
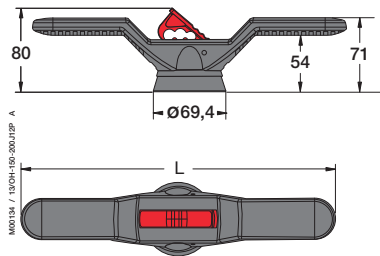
Pistol handles

Plastic

Door drilling for
OH_-handles:

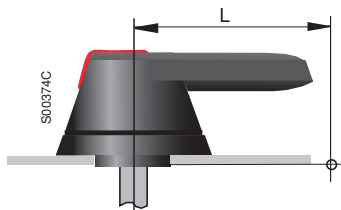


Handle type	Handle length (mm) L	Shaft (mm) B
OH_45J6	45	6
OH_65J6	65	6
OH_80J6	80	6
OH_125J12	125	12
OH_145J12	145	12
OH_175J12	175	12
OH_275J12	275	12



Type	L
OHB150J12	300
OHB200J12	400

Minimum distance L, between the hinge and the rotating shaft

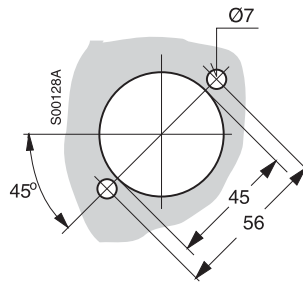
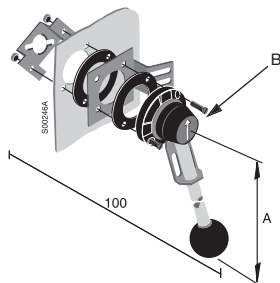


Switch size	Length L (mm)	Handle type
OT16...100	75	OH_2, OH_3
OT16...200	80	OH_65, 80J_
OT400...600	150	OH_145J12
OT800...1200	150	OHB150J12P
OETL-NF1600..2000	220	YADSDA-7, 8 OH_175J12

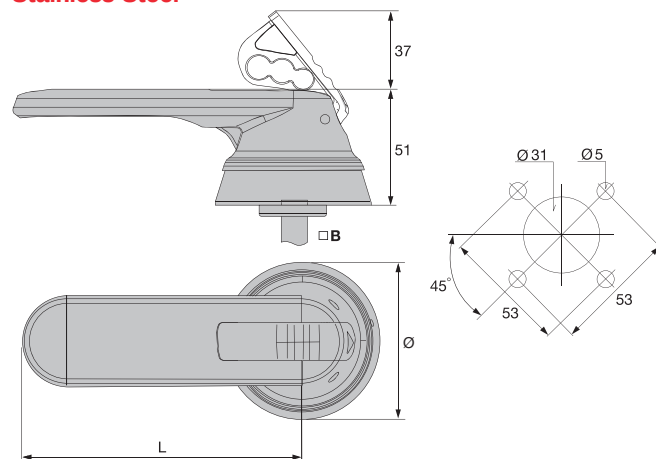
Metallic handles

YASDA-6 (A=320 mm)
YASDA-7, 8, 21 (A=220 mm)
YASDA-24 (A=145 mm)

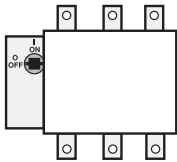
Door drilling for YASDA_:



Stainless Steel



Handle type	OHM45L5	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	45	65	125	175	275
□B	5	6	12	12	12

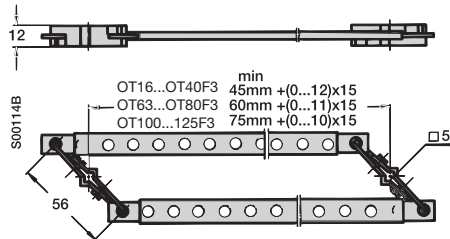


Approximate dimensions Conversion mechanisms

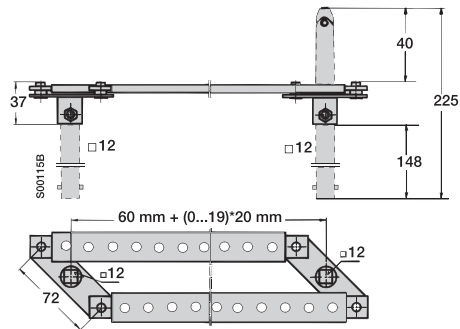


6 or 8 pole switches

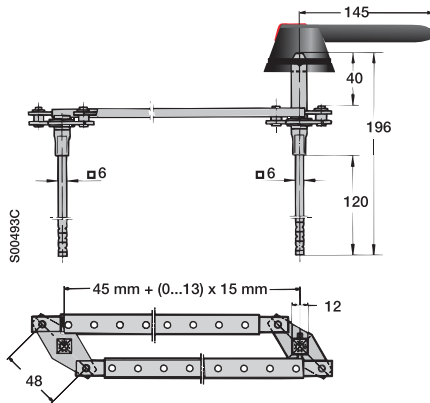
OTZW8



OETL-ZW9

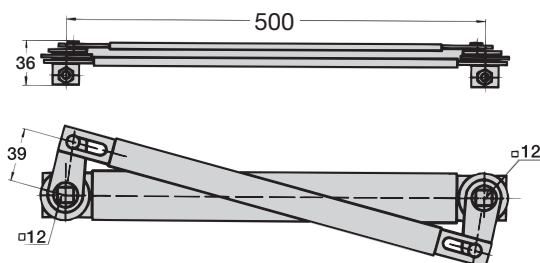


OESA-ZW2

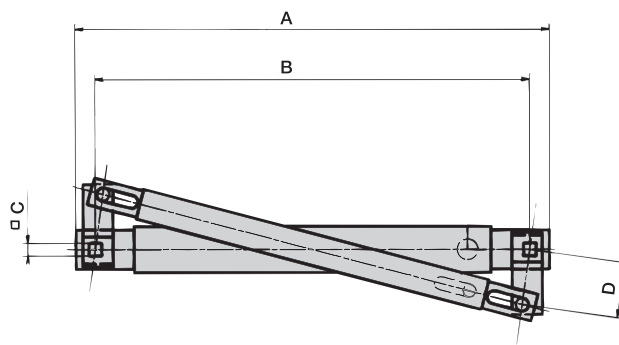


Mechanical interlock

OETL-ZW15



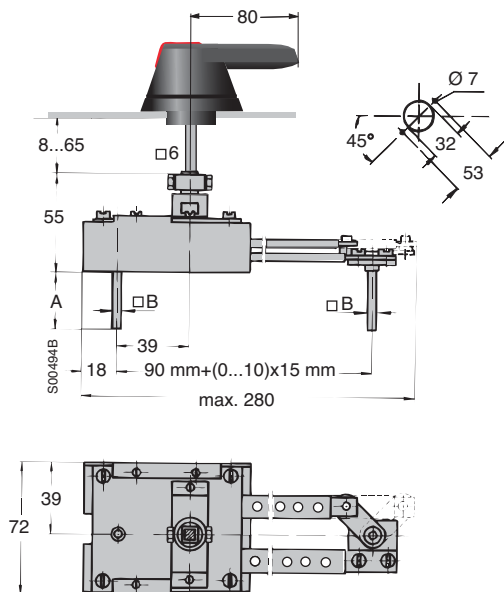
OTZW10
OTZW24



Type	A	B	C	D
OTZW10	206	190	6	30
OTZW24	114	100	5	25

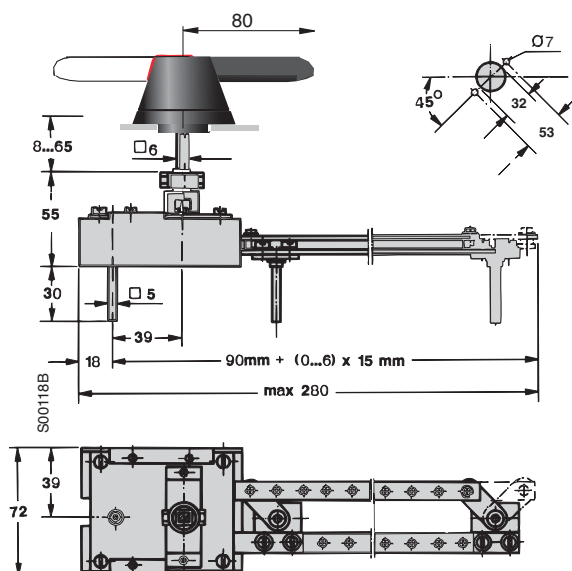
Change-over switches and by-pass switches

OTZW6, OESA-ZW1

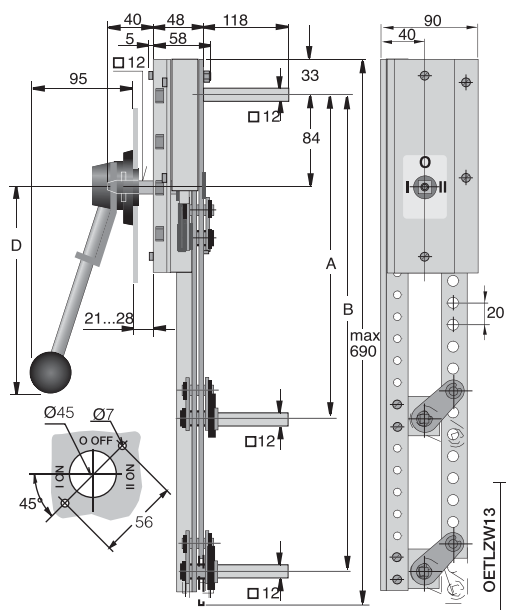


	A	B
OESAZW1	116	6
OTZW6	30	6

OTZW17

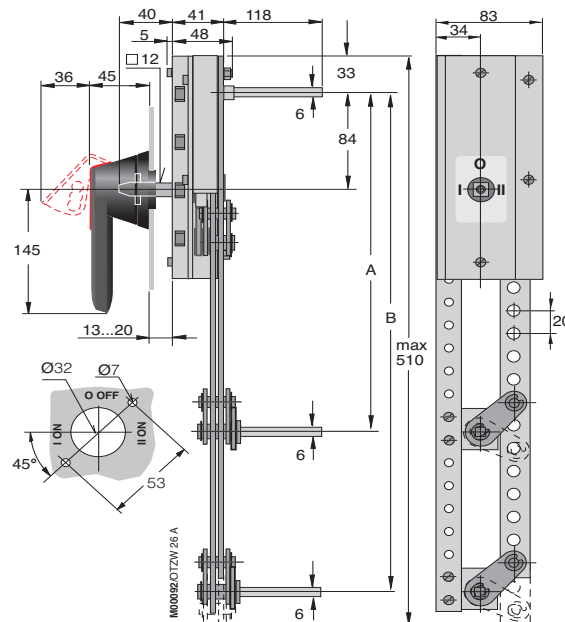


OETL-ZW12, 13

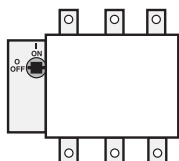


	A	B	D
OETLZW 12	210+(0...18)x20 mm	250+(0...18)x20 mm	220 mm
OETLZW 13	210+(0...18)x20 mm	250+(0...18)x20 mm	320 mm

OTZW25, OTZW26



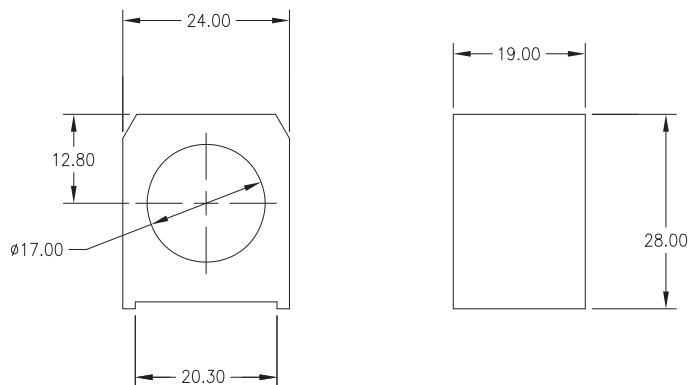
	A	B
OTZW 25	210+(0...18)x20 mm	210+(0...9)x20 mm
OTZW 26	210+(0...9)x20 mm	210+(0...9)x20 mm



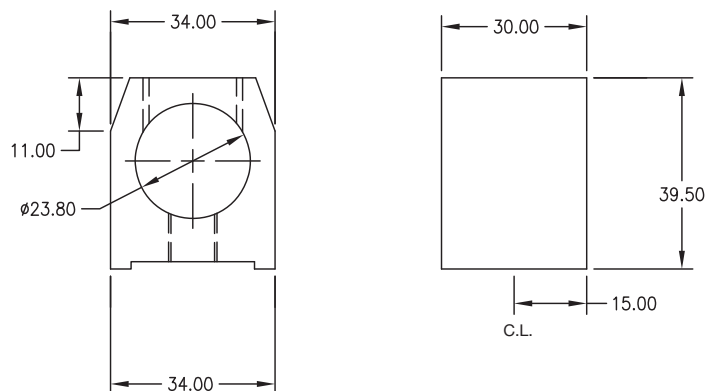
Approximate dimensions Terminal lugs



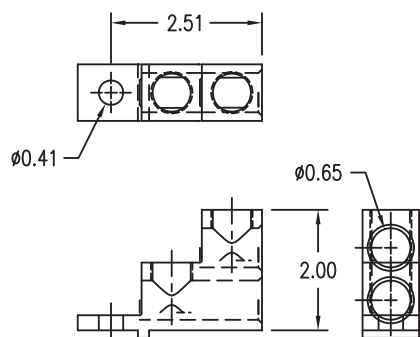
OZXA-200 — for use with 200A switches



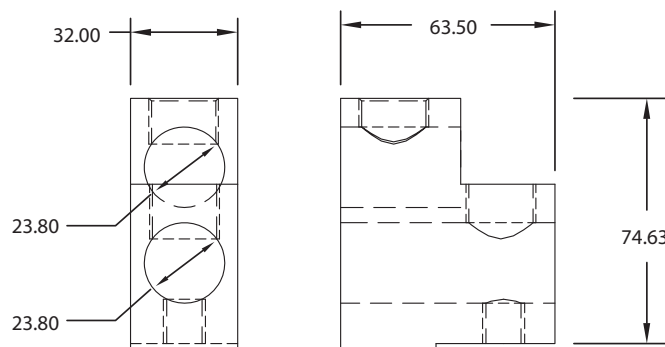
OZXA-400 — for use with 400A switches



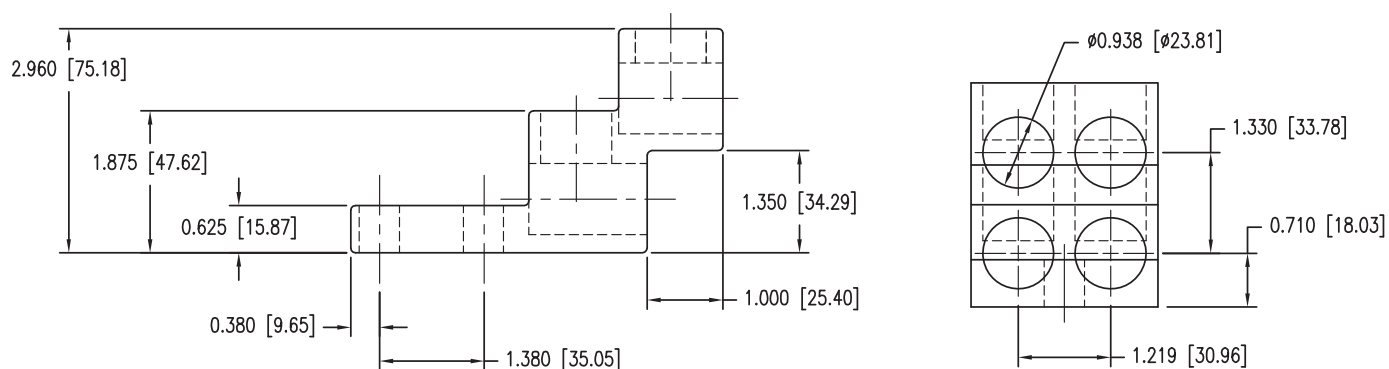
OZXA-402 — for use with 400A switches



OZXA-800 — for use with 600A switches



OZXA-1200 — for use with 800A and 1200A switches

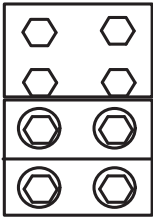




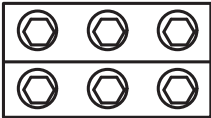
Approximate dimensions
Terminal lugs

← 00 → Millimeters

DSK8TL and DSK8TM —for use with 1600A-2000A switches



"L"



"M"

(2500A LUGS SHOWN ON BREAKER)

FIGURE	LUG KIT CAT. NO.	LUG NO.	TEMP.	WIRE RANGE	WIRE TORQUE	MOUNTING TORQUE	WIRE SCREW SIZE
L	DSK8TL	D1922	90° C	1/0 - 750 kcmil (4)	500 lb-in	500 lb-in	1/2
M	DSK8TM	D3185, D3186, D3187	90° C	1/0 - 750 kcmil (6)	500 lb-in	500 lb-in	1/2

NOTE: Lugs are interchangeable and may be ordered as required by the installed wire gauge.

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Notes

PowerLine Fusible Disconnect switches



PowerLine

Fusible disconnect switches

Compact, heavy duty

30A – 1200A, 600V

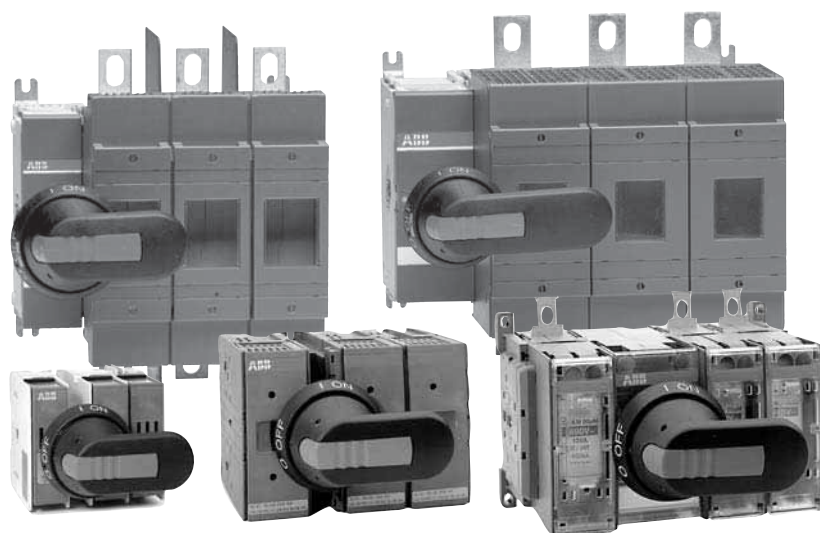


ABB PowerLine includes seven different amperage sizes from 30A to 1200A. All PowerLine fusible switches are designed to meet customer requirements in terms of high interrupting capacity and long electrical life while occupying little more panel space than the appropriate fuses. The basic construction provides flexibility and high performance in an extremely compact size. ABB PowerLine switches are a perfect choice to withstand the heat and humidity of the tropics, the extreme cold of the arctic and any rugged industrial environment you may have.

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Fusible disconnect switches for North America and the world: CSA fuse class J,CC,L	
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Technical information	2.25
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Selecting switches	
Auxiliary contact timing diagrams	
Approximate dimensions	



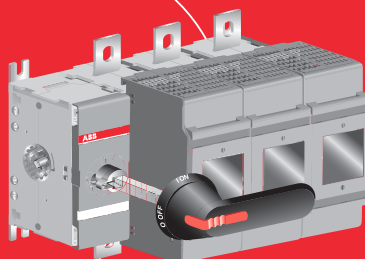
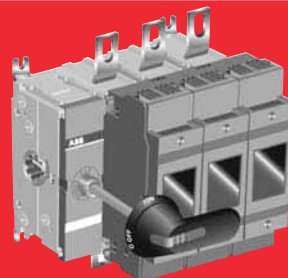
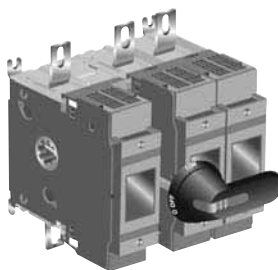
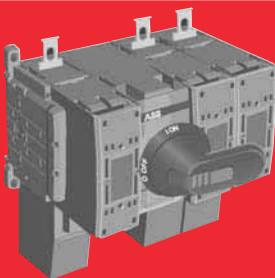
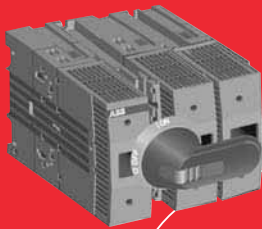
Complete range of fusible disconnect switches

From 30 to 1200A, 600 V

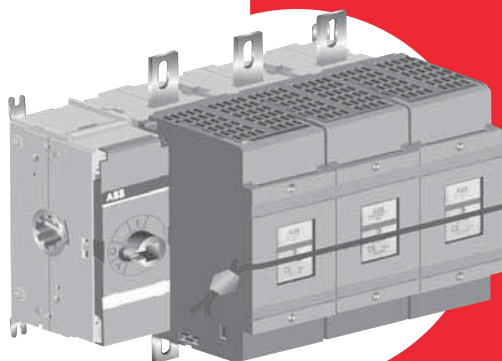
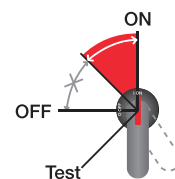
Features within the range of ABB fusible disconnect switches include single pole to four pole versions.

- The fusible disconnect switches mechanism located in any position together with the direction of the terminals, increasing the ease of installation and adaptability to different types of cubicle designs.
- A wide selection of accessories improve the usability of the switch fuses; 6 and 8- pole, changeover, by-pass and mechanically interlocked switch combinations can be built up by means of conversion kits.

The fusible disconnect switches are available for all types of fuse links, DIN, BS, NFC, UL, CSA.



Designed for safety

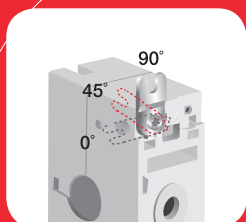


The OS fusible disconnect switch ensures safe operation, protecting both people and equipment.

Designed and based on substantial experience of electrical safety, the fusible disconnect switch eliminates the risk of electrical accidents:

- The fuse covers cannot be opened while the fusible disconnect switch is in the ON-position and can be sealed in the closed position.
- The double insulated external operating handle eliminates the risk of touching live parts outside the box.
- The handle indicates the position of the contacts with complete reliability in all situations.

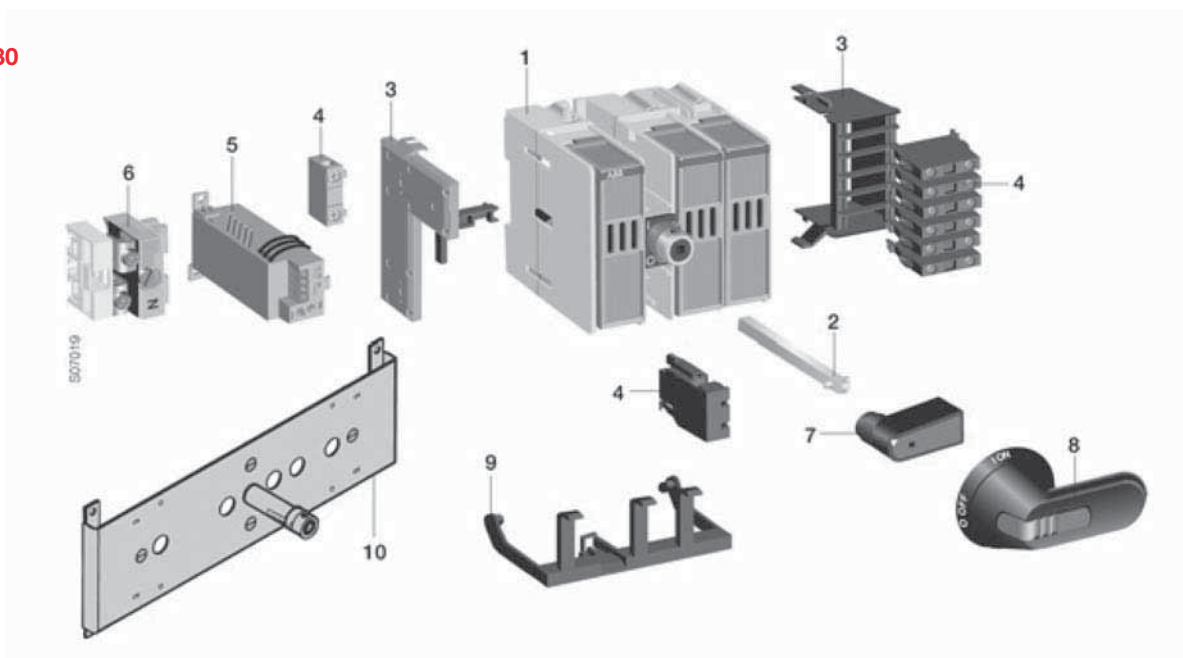
Easy, flexible installation



The OS 200...1200 fusible disconnect switch is easy to use and a snap to install according to your choice: the adjustable mounting feet allow both top and side mounting of the fusible disconnect switch.

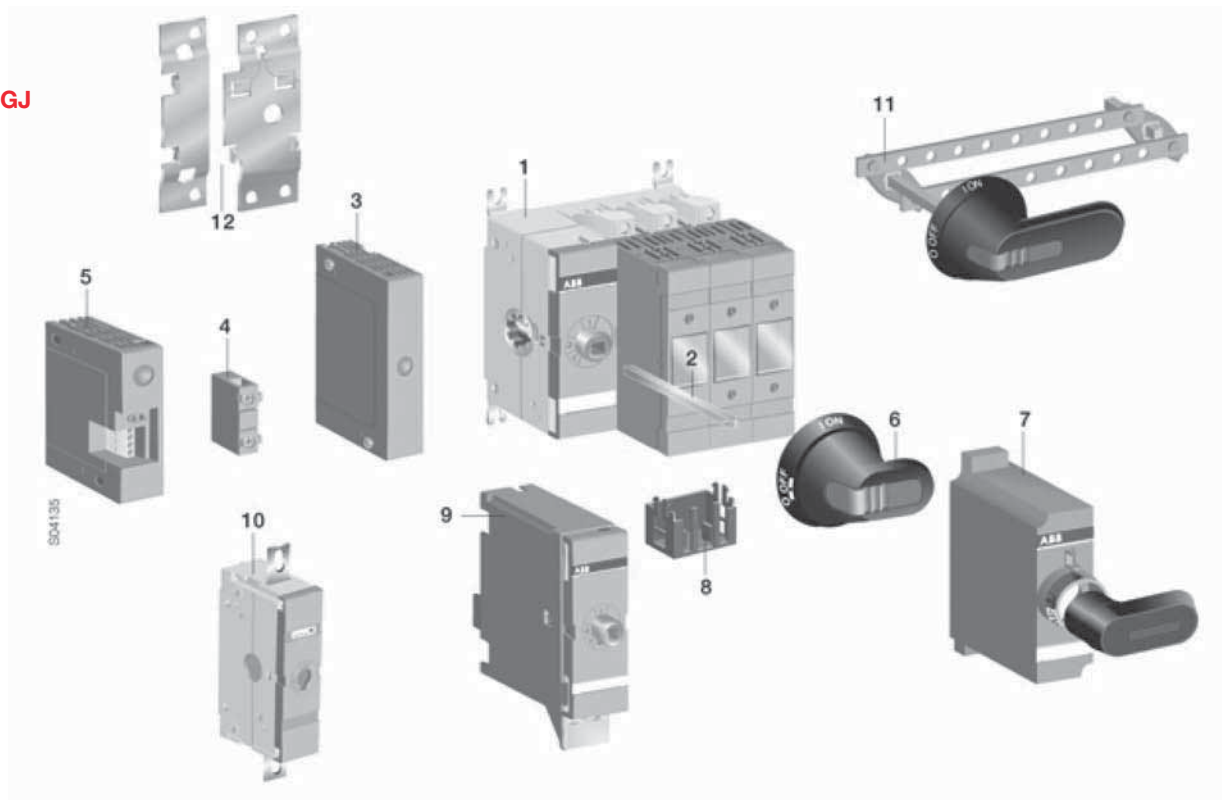
The OS fusible disconnect switch offers you flexible cabling options. The high terminal positioning with space to the back plate simplifies the mounting of cables. It's also ideal for double cabling, which in turn saves on space.

OS30



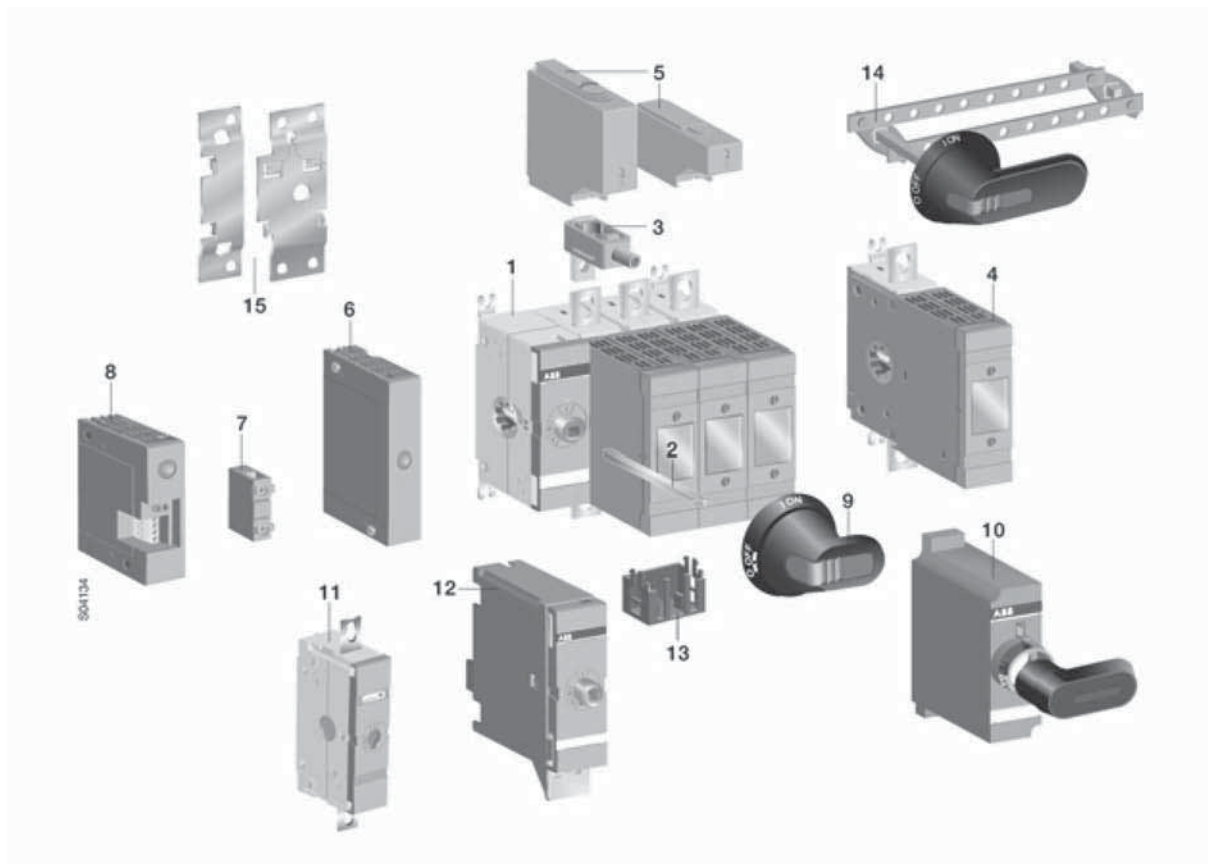
1 Switch fuse | 2 Extended shaft | 3 Mounting frame for auxiliary contact | 4 Auxiliary contact | 5 Fuse monitor | 6 Detachable neutral link | 7 Handle knob | 8 Pistol type handle | 9 Blown fuse indicator | 10 Conversion kit: 6/8-pole, C/O, mech. interlock

OS60GJ



1 Switch fuse | 2 Extended shaft | 3 Module for auxiliary contacts | 4 Auxiliary contact | 5 Fuse monitor | 6 Pistol type handle | 7 Direct mounted handle | 8 Blown fuse indicator | 9 Interlocks, mechanical & electrical | 10 Detachable neutral link | 11 Conversion kit: 6/8-pole, C/O, bypass, mech. interlock | 12 DIN rail mounting kit

OS100GJ- OS1200



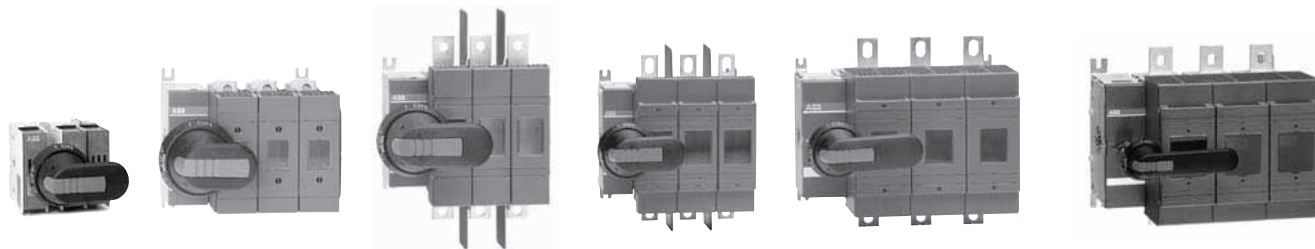
- 1 Switch fuse | 2 Extended shaft | 3 Terminal clamp | 4 Fourth pole | 5 Terminal shroud | 6 Module for auxiliary contacts | 7 Auxiliary contact | 8 Fuse monitor | 9 Pistol type handle | 10 Direct mounted handle | 11 Detachable neutral link | 12 Interlocks, mechanical & electrical | 13 Blown fuse indicator | 14 Conversion kit: 6/8-pole, C/O, bypass, mech. interlock | 15 DIN rail mounting kit (only for OS100G...160G_)



Overview

Fusible disconnect switches

OS30FA – OS1200L03



OS30FAJ12P

OS60GJ03P

OS100GJ03P

OS200J03P

OS400J03P

OS600J03P

Catalog number	3 pole	OS30FAJ12	OS60GJ12	OS100GJ12	OS200J03	OS400J03	OS600J03	OS800L03	OS1200L03
General purpose amp rating	A	30	60	100	200	400	600	800	1200
Catalog reference	Page #	2.9	2.10	2.10	2.14	2.14	2.14	2.14	2.14
Approvals ^①									
	2 pole	N/A	N/A	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	3 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
Technical ratings (CSA,UL)									
Max operating voltage	V	600	600	600	600	600	600	600	600
Max horsepower rating									
Three phase									
208V	HP	7.5	15	25	50	100	150	200	—
240V	HP	7.5	15	30	60	125	200	250	—
480V	HP	15	30	60	125	250	400	500	—
600V	HP	20	50	75	150	350	500	500	—
Single phase									
120V	HP	2	—	—	—	—	—	—	—
240V	HP	3	—	—	—	—	—	—	—
CSA fuse class		J/CC	J	J/T	J/T	J/T	J/T	L	L
Technical ratings (IEC)									
Rated insulation and operational voltage. AC20 and DC20 ^②		1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	32	63	160	200	400	630	800	1250
AC 20/DC 20 enclosed	A	32	63	160	200	400	600	720	1000
AC 21A ≤500V	A	32	63	160	200	400	630	800	1250
≤690V	A	32	63	160	200	400	630	800	1250
Rated operational power AC23									
400/415V	kW	15	30	75	110	220/230	355	400	560
690V	kW	22	55	132	200	400	560	710	1000
Weight	3 pole switch	KG	0.7	1.3	1.5	5.7	11.5	11.5	29
	4 pole	KG	0.9	1.6	1.8	6.9	14	14	36
Dimension	3 pole	H mm	97	100	143	200	290	290	287
		W mm	106	145	223	262	373	373	429
		D mm	107	128	131	199	206	234	294
Accessories									
Double break contacts		S	S	S	S	S	S	S	S
Fuse cover		S	S	S	S	S	S	S	S
Terminal lug kit		Integral	Integral	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Terminal shroud		Not required	Not required	•	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•	•
Handle CSA/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Conversion kit									
6 pole		•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•
Bypass		—	—	—	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	•	•	•	•	•

S = Standard
• = Available
— = Not available

CSA approved, UL listed, IEC rated, CE marked

① CSA approved switches are also UL listed.

② 1000V IEC 408

General information: 2.2 - 2.5

Complete fusible switches: 2.7

Components: 2.8 - 2.24

Technical information: 2.25 - 2.29

Dimensions: 2.30 - 2.40

30A – 1200A Fusible disconnect switches

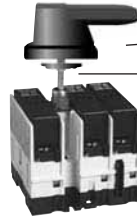
CSA fuse class J, CC, L

3 pole^①



Each kit includes:

- 1 three pole switch
- 1 handle
- 1 shaft



Kit

handle
shaft
switch
terminal lug kit^②

Complete Switches (including handle and shaft).

CSA general purpose amp rating	CSA Fuse type 600V	HP					Complete Switches catalog number	List price
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OS30FAJ12P	
30	CC	5	7.5	7.5	15	20	OS30FACC12P	
60	J	15	15	15	30	50	OS60GJ12P	
100	J	25	25	30	60	75	OS100GJ12P ^③	
200	J	50	50	60	125	150	OS200J03P ^③	
400	J	100	125	125	250	350	OS400J03P ^③	
600	J	150	150	200	400	500	OS600J03P ^③	
800	L	200	200	250	500	500	OS800L03P	
1200	L	—	—	—	—	—	OS1200L03P	

Components for complete switches

Kit catalog number	Switch	Handle ^③				Shaft			Terminal lugs ^④		
	Catalog number	NEMA type	Marking	De- feat- able	Handle catalog number	Mounting depth ^④ (mm)	Length (mm)	Shaft catalog number	Wire size	Wire type	Catalog number
OS30FAJ12P	OS30FAJ12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	135 - 210	150	OSP6X150	#18 – #8	Cu	Integral
OS30FACC12P	OS30FACC12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	135 - 210	150	OSP6X150	#18 – #8	Cu	Integral
OS60GJ12P	OS60GJ12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	141 - 260	161	OSP6X161	#14 – #4	Cu	Integral
OS100GJ12P	OS100GJ12	1, 3R, 12	I/O, OFF/ON	Yes	OHB65J6	141 - 260	161	OSP6X161	#14 – 2/0	Cu/Al	OZXA-24
OS200J03P	OS200J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB80J6	200 - 310	210	OSP6X210	#4 – 300kcmil	Cu/Al	OZXA-200
OS400J03P	OS400J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	200 - 310	280	OSP12X280	#2 – 600kcmil	Cu/Al	OZXA-400
OS600J03P	OS600J03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	285 - 355	280	OSP12X280	(2) #2 – 600kcmil	Cu/Al	OZXA-800
OS800L03P	OS800L03	1, 3R, 12	I/O, OFF/ON	Yes	OHB145J12	285 - 355	280	OSP12X280	(2) #2 – 600kcmil	Cu/Al	OZXA-800
OS1200L03P	OS1200L03	1, 3R, 12	I/O, OFF/ON	Yes	OHB274J12	371 - 500	395	OSP12X395	(4) #2 – 600kcmil	Cu/Al	OZXA-1200

If other handles or shafts are desired, please order from the individual component pages 2.8 – 2.14.

① Other pole configurations available. Please see the individual component pages.

② Terminal lug kit for OS100...OS800 are sold separately, see accessories page 2.10 and 2.14.

③ All handles are black and accept three padlocks. For others, please see the individual component pages.

④ Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.



30A - 200A fusible disconnect switches

CSA fuse class J, CC

Handles & shafts

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OS30FAJ12



OXP6X150



OHB65J6



OS30FAJ12P



OHB65J6



OXP6X290

30-200 Amp switches, 600V

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating					Terminal Lugs		Catalog number	List price
		Three phase					Wire size	Wire type		
		200V	208V	240V	480V	600V				
3 pole										
30	J	5	7.5	7.5	15	20	#18 - #8	Cu	OS30FAJ12	
30	CC	5	7.5	7.5	15	20	#18 - #8	Cu	OS30FACC12	
4 pole										
30	J	5	7.5	7.5	15	20	#18 - #8	Cu	OS30FAJ22F	
30	CC	5	7.5	7.5	15	20	#18 - #8	Cu	OS30FACC22F	
2 pole										
100	J	---	---		---	---	#14 - 2/0	Cu/Al	OS100GJ02	
200	J	---	---		---	---	#4 - 300kcmil	Cu/Al	OS200J02	
3 pole										
60	J	15	15	15	30	50	#14 - #4	Cu	OS60GJ12	
100	J	25	25	30	60	75	#14 - 2/0	Cu/Al	OS100GJ03	
100	J	25	25	30	60	75	#14 - 2/0	Cu/Al	OS100GJ12	
200	J	50	50	60	125	150	#4 - 300kcmil	Cu/Al	OS200J03	
200	J	50	50	60	125	150	#4 - 300kcmil	Cu/Al	OS200J12	
200	J	50	50	60	125	150	#4 - 300kcmil	Cu/Al	OS200J30	
4 pole										
60	J	15	15	15	30	50	#14 - #4	Cu	OS60GJ22F	
100	J	25	25	30	60	75	#14 - 2/0	Cu/Al	OS100GJ22F	
200	J	50	50	60	125	150	#4 - 300kcmil	Cu/Al	OS200J04	

Pistol handles — for use with shafts (6 x 6 mm) ①

NEMA type	IEC type	Color	Marking	Length inches/mm	Defeat- able	Padlock- able	Catalog number	List price
1,3R,12	IP65	R/Y	O/I & Off/On	65	Yes	Yes	OHY65J6	
1,3R,12	IP65	Grey	O/I & Off/On	65	Yes	Yes	OHG65J6	
1,3R,12,4,4X	IP66	Blk	O/I & Off/On	65	Yes	Yes	OHB65L6	
1,3R,12,4,4X	IP66	R/Y	O/I & Off/On	65	Yes	Yes	OHY65L6	

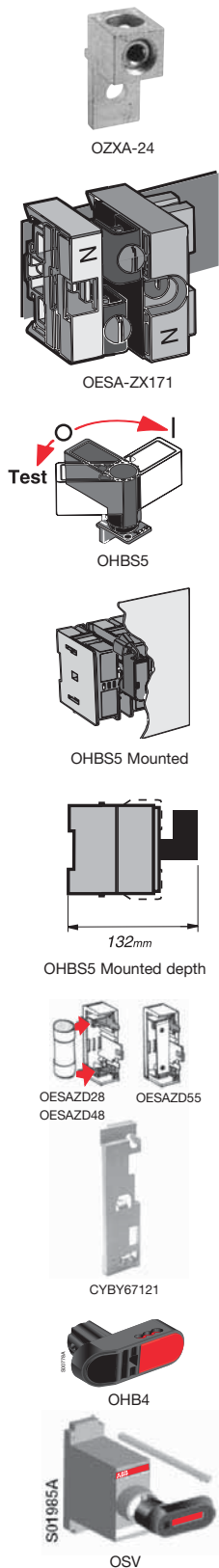
Pistol handles — (6 x 6mm) ①

NEMA type	IEC type	Color	Marking	Length inches/mm	Defeat- able	Padlock- able	Catalog number	List price
1,3R,12	IP65	Blk	O/I & OFF/ON	65	Yes	Yes	OHB65J6	
1,3R,12	IP65	R/Y	O/I & OFF/ON	65	Yes	Yes	OHY65J6	
1,3R,12	IP65	R/Y	O/I & OFF/ON	65	Yes	Yes	OHG65J6	
1,3R,12	IP65	Blk	O/I & OFF/ON	80	Yes	Yes	OHB80J6	
1,3R,12	IP65	R/Y	O/I & OFF/ON	80	Yes	Yes	OHY80J6	
1,3R,4,4X,12	IP66	Blk	O/I & OFF/ON	80	Yes	Yes	OHB80L6	
1,3R,4,4X,12	IP66	R/Y	O/I & OFF/ON	80	Yes	Yes	OHY80L6	
1,3R,4,4X,12	IP66	SS	O/I & OFF/ON	65	Yes	Yes	OHM65L6	

Shafts — for use with pistol handles (6 x 6 mm)

Shaft length (mm)	Mounting depth (in mm)	Catalog number	List price
150	130 - 249	OXP6X150	
161	141 - 260	OXP6X161	
210	190 - 309	OXP6X210	
290	270 - 389	OXP6X290	
360	340 - 459	OXP6X360	
430	410 - 529	OXP6X430	

Accessories 30A - 200A fusible disconnect switches



Shafts alignment ring — for use on :

Description	For use on:	Catalog number	List price
Pistol Handles	OH_45, 65, 80, 125, 145, 175, J, L	OHZX10	

Terminal lug kit

For use on:	Wire size	Wire type	Terminal lugs per kit	Catalog number	List price
OS100J	#14 – 2/0	Cu/Al	6	OZXA-24	
OS200J	#4 – 300 kcmil	Cu/Al	6	OZXA-200	

Extension ring for pistol type handles

Description	For use on:	Catalog number	List price
Black	OHB_	OHZX14	

Terminal pole

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS30FA_	30	600	OESA-ZX171	

Direct mount handle — mounts directly to switch, no shaft necessary for OS30

NEMA type	Color	Marking	Length mm	Padlockable	Catalog number	List price
1	Blk	O/I/Test	50	Yes	OHBS5 ^②	

Fuse carriers – (replacement part)

Description	For use on :	Catalog number	List price
CC fuse carrier	OS30FACC_	OESA2D48	
J fuse carrier	OS30FAJ_	OESA2D28	
Solid link carrier	OS30_	OESA2D55	

Terminal cover – (replacement part)

Description	For use on :	Catalog number	List price
Covers terminal below fuse carrier	OS30FA_	CXBY67121	

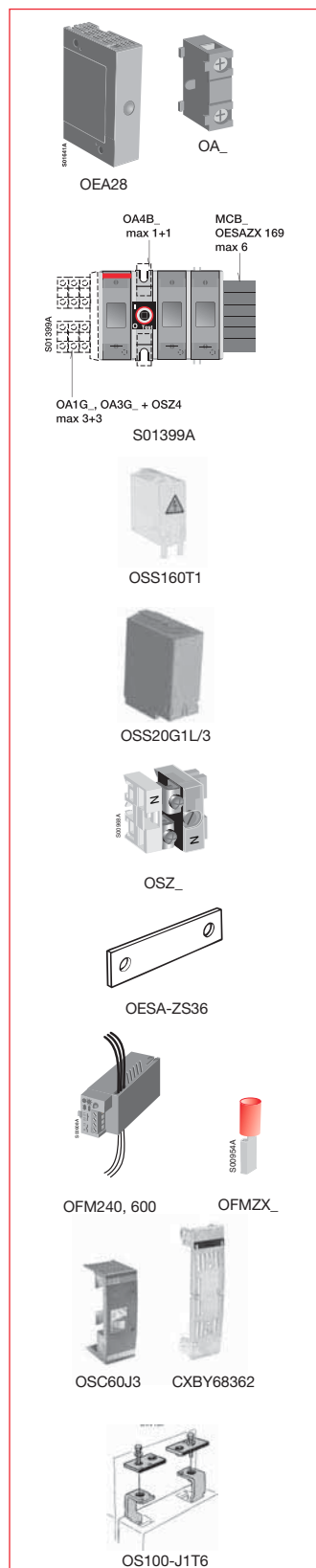
Direct mounted handle

For use on:	Color	Marking	Length mm	Padlockable	Catalog number	List price
OS60-OS100 OS200	Black	O/I	50	Yes	OSV200BK ^②	

② Padlockable with three padlocks in the OFF-position. Includes shaft and mechanism cover.



Accessories for 30A – 200A fusible disconnect switches



Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Form C 1 N.O. & 1 N.C.	OS30 for direct mounting to switch ¹⁾	6	250	OA4B1C	
1 N.O. 1 N.C.	OS30-OS200	10 10	600 600	OA1G10 [®] OA3G01	
Module for aux. contact	OS200			OEA28	
Mounting base (on the left side)	OA1G10 & OA3G01			OSZ4	

1) For OS30: Max. 6 auxiliary contacts mountable onto the left side with the mounting frame OSZ4.

Maximum number of auxiliary contacts under the mechanism cover:

OS60..200: Maximum 4 contact blocks, 4 Aux./Test contacts 2Test indication contacts

OS400..800: Maximum 8 contact blocks, 4 Aux./Test contacts 4Test indication contacts

OS1200: Maximum 12 contact blocks, 8 Aux./Test contacts 4Test indication contacts

Mounting on the left side of the switch fuse:

OS60-OS1200: Maximum 8 auxiliary contact blocks (N.O. or N.C.) with the OEA28 module.

Terminal shroud

For use on:	Lug type	Quantity for full protection ²⁾	Qty per pkg	Catalog number	List price
OS100	OZXA-24	2	3 x 1P	OSS160G1L/3	
OS200	OZXA-200	2	3 x 1P 4 x 1P	OSS200G1L/3 OSS200G1L/4	

²⁾ For both load and line sides

Terminal poles

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS30	30	600	OESA-ZX171	
	OS60	60	600	OSZ1	
	OS100	100	600	OSZ2	
	OS200	200	600	OXN250	

Shorting bars

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid links	OS60J	60	600	OESA-ZD54	
	OS100J	100	600	OESA-ZS36	
	OS200J	200	600	OESA-ZK98	

Fuse monitor, suitable for 3 phase circuits

Description	For use on:	AC rated voltage	Catalog number	List price
The Red LED indicates any BLOWN fuse and the 1 NO and 1 NC aux. contact gives an alarm or a trip signal. The Green LED indicates NORMAL status.	OS30-100	100...240	OFM240	
	OS30-OS200	380...600	OFM600	
	OS200	100...240	OFS240	
	OS200	380...600	OFS600	
Terminal crimp for OS30...200, kit of 6 pieces			OFMZX2	

Fuse Carriers - (replacement part), kit of 3

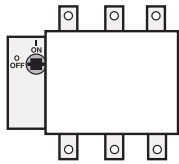
Description	For use on :	Catalog number	List price
Removal fuse carrier	OS60	OSC60J3	

Replacement fuse covers

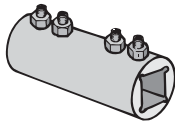
Description	For use on :	Catalog number	List price
Transparent fuse cover	OS100	CXBY68362	
Fuse Cover	OS200	CXBY68674	
Phase Barrier	OS200	CXBY68794	

"T" type fuse adapter kit

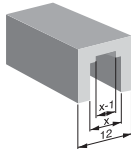
Description	For use on :	Catalog number	List price
100A, 600V, 3 pole	OS100	OS100-J1T6	



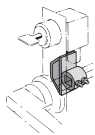
Accessories for 30A – 200A fusible disconnect switches



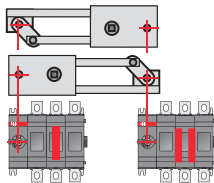
OESA-ZX167
OETL-ZX95



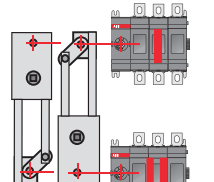
OETL-ZK19
(X=6MM)



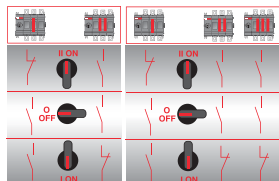
OETL-ZW16



Change-over switches



Change-over and
by-pass switches



Change-over
switches By-pass switches

Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	OETL-ZX95	

Shaft adapter

Description	For use on:	Catalog number	List price
Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler	6mm shafts	OETL-ZK19	

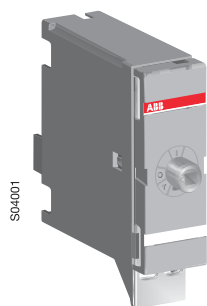
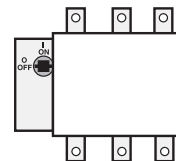
Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. Cam attachment for adapting to the interlock system. The interlock is not included.	OS60, OS100, OS200	OETL-ZW16	

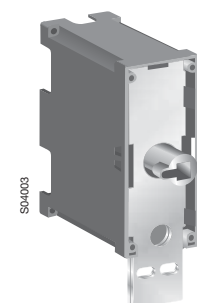
Conversion mechanisms • Switches are not included

Description	For use on:	Catalog number	List price
6 pole 8 pole	OS30FA_	OWP6DS1 OWP6DS2	
Transfer 3 pole Transfer 4 pole		OWC6DSH1 OWC6DSH2	
Mechanical interlock 3 pole Mechanical interlock 4 pole		OWM6DS1 OWM6DS2	
6 and 8 pole		OESA-ZW2	
Transfer	OS60	OESA-ZW1	
Transfer	OS100 - OS200	OTZW25	
By-pass	OS100 - OS200	OTZW26	

Conversion kit type	To be ordered separately		Included in conversion kit delivery	
	Shaft	Handle	Shaft	Handle
6 and 8-pole switches				
OWP6DS1	X	-	-	-
OWP6DS2	X	-	-	-
OESA-ZW2	-	-	X (2 pcs)	OHB145J12
Change-over switches				
OWC6DSH1	X (length min. 170mm)	-	-	OHB65J6E011
OWC6DSH1	X (length min. 170mm)	-	-	OHB65J6E011
OESA-ZW1	-	-	X (2 pcs)	OHB80J6E011
OTZW25	-	-	X (2 pcs)	OHB95J12E011
Mechanical interlock				
OWM6DS1	X (2 pcs) (length min. 170mm)	X (2 pcs)	-	-
OWM6DS2	X (2 pcs) (length min. 170mm)	X (2 pcs)	-	-



OTZT1_



SD4003

OTZT3_

Mechanism interlock kits & Electrical interlocks

OS200...1250 switch fuses can be interlocked in the OFF position using padlocks and by using a mechanical interlock kit mounted on the mechanism.

The diameter of the lock bail can be max dia. 8 mm.

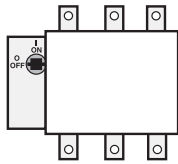
Suitable for switches	Catalog number	List price
Interlocking in the OFF position		
OS200 ... 250_	OSZT1A	
OS315 ... 400_	OSZT2A	
OS600 ... 800_	OSZT3A	
OS1200 ... 1250U_	OSZT4A	
Interlocking in the OFF & ON positions		
OS200 ... 250_	OSZT1L	
OS315 ... 400_	OSZT2L	
OS600 ... 800_	OSZT3L	
OS1200 ... 1250U_	OSZT4L	

Coils

By installing a coil inside the housing of the interlock kit the switch can be interlocked electrically in the OFF position or both in the OFF and ON positions.

The electrical interlock works using the “closed circuit principle”, meaning that when the control voltage is not connected to the coil, the switches provided with A-type interlocks cannot be turned to the ON position and switches with L-type interlocks cannot be turned to the ON or OFF positions.

Suitable for switches	Catalog number	List price
AC coils		
110 VAC, 50Hz	PDAL2/110AC50Hz	
110 VAC, 60Hz	PDAL2/110AC60Hz	
208 VAC, 60Hz	PDAL2/208AC60Hz	
230 VAC, 50Hz	PDAL2/230AC50Hz	
DC coils		
24 VDC	PDAL2/24DC	
48 VDC	PDAL2/48DC	
60 VDC	PDAL2/60DC	
110 VDC	PDAL2/110DC	
OS600 ... 800_	OSZT3L	
OS1200 ... 1250U_	OSZT4L	



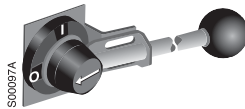
400A – 1200A Fusible disconnect switches CSA fuse class J, T, L



OH145J12



SS handles



YASDA-8



YASDA-33



OSV400



OX12X



OZXA-400

400 – 800 Amp switches, 600V

CSA general purpose amp rating	CSA Fuse type 600V	Maximum horsepower rating					Catalog number	List price			
		Three phase			600V						
		200V	208V	240V		480V					
2 pole	400	J	—	—	—	—	OS400J02				
	600	J	—	—	—	—	OS600J02				
	800	L	—	—	—	—	OS800L02				
	1200	L	—	—	—	—	OS1200L02				
3 pole	400	J	100	125	125	250	350	OS400J03			
	400	J	100	125	125	250	350	OS400J12			
	400	J	100	125	125	250	350	OS400J30			
	600	J	150	150	200	400	500	OS600J03			
	600	J	150	150	200	400	500	OS600J12			
	600	J	150	150	200	400	500	OS600J30			
	800	L	200	200	250	500	600	OS800L03			
	800	L	200	200	250	500	600	OS800L12			
	1200	L	—	—	—	—	—	OS1200L03			
	1200	L	—	—	—	—	—	OS1200L12			
	4 pole	400	J	100	125	125	250	350		OS400J04	
		600	J	150	150	200	400	500		OS600J04	
800		L	200	200	250	500	600	OS800L04			
1200		L	—	—	—	—	—	OS1200L04			

Pistol handles — (□ 12 x 12mm) ②

NEMA type	IEC type	Color	Length mm	Marking	Defeat- able	Padlock- able	Catalog number	List price
1,3R,12	IP65	Blk	145	O/I & Off/On	Yes	Yes	OH145J12	
1,3R,12	IP65	R/Y	145	O/I & Off/On	Yes	Yes	OHY145J12	
1,3R,12	IP65	Grey	145	O/I & Off/On	Yes	Yes	OHG145J12	
1,3R,12	IP65	Blk	175	O/I & Off/On	Yes	Yes	OH175J12	
1,3R,12	IP65	R/Y	175	O/I & Off/On	Yes	Yes	OHY175J12	
1,3R,4,4X,12	IP66	Blk	145	O/I & Off/On	Yes	Yes	OH145L12	
1,3R,4,4X,12	IP66	R/Y	145	O/I & Off/On	Yes	Yes	OHY145L12	
1,3R,4,4X,12	IP66	Blk	175	O/I & Off/On	Yes	Yes	OH175L12	
1,3R,4,4X,12	IP66	R/Y	175	O/I & Off/On	Yes	Yes	OHY175L12	
1,3R,4,4X,12	IP65	Metal	220	Off/On	—	Yes	YASDA-8	
1,3R,4,4X,12	IP66	SS	125	O/I & Off/On	Yes	Yes	OHM125L12	
1,3R,4,4X,12	IP66	SS	175	O/I & Off/On	Yes	Yes	OHM175L12	
1,3R,4,4X,12	IP66	SS	275	O/I & Off/On	Yes	Yes	OHM275L12	
1,3R,12	IP65	Blk	274	O/I & Off/On	Yes	Yes	OH274J12	
1,3R,12	IP65	Blk	330	O/I & Off/On	Yes	Yes	OH330J12	

Direct mounted handles Padlockable with three padlocks in the OFF-position. Includes shaft and mechanism cover

For use on	Color	Description	Marking	Padlockable	Catalog number	List price
OS200	Black	No shaft required	O/I	Yes	OSV200BK	
OS400	Black	No shaft required	O/I	Yes	OSV400BK	
OS600	Black	No shaft required	O/I	Yes	OSV600BK	
OS400-600, OES800	Metal	Mounts on 12mm shaft	-	No	YASDA-33	

Shaft 12 mm — (□ 12 x 12mm)

For use on	Shaft length mm	Mounting depth ^① (mm)	Catalog number	List price
	250	231 – 340	254 – 325	OX12X250
	280	259 – 368	285 – 356	OX12X280
	325	305 – 414	330 – 401	OX12X325
	395	376 – 485	401 – 472	OX12X395
	465	445 – 556	470 – 541	OX12X465
	535	516 – 625	536 – 612	OX12X535

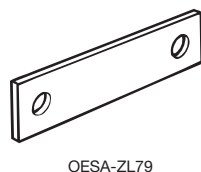
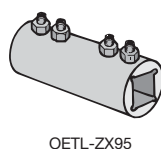
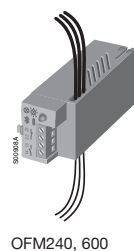
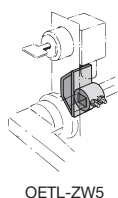
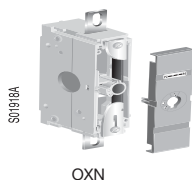
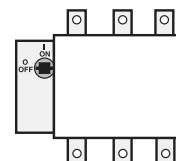
Terminal lug kit

For use on:	Wire size	Wire type	Terminal lugs per kit	Catalog number	List price
OS400J_	#2 – 600 kcmil	Cu/Al	6	OZXA-400	
OS400J_	(2)#2 – 300 kcmil	Cu/Al	6	OZXA-402	
OS400J_	(2)#2 – 500 kcmil	Cu/Al	6	OZXA-33	
OS600J_, OS800L_	(2)#2 – 600 kcmil	Cu/Al	6	OZXA-800	
OS1200L_	(4)#2 – 600 kcmil	Cu/Al	6	OZXA-1200	

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

② Plastic pistol grip handle with stainless steel hasp, add suffix EH.

ex.: OH175J12EH.



Auxiliary contacts

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. 1 N.C. Module for auxiliary contacts	OS400...1200	10 10 10	600 600 600	OA1G10 OA3G01 OEA28	

For OS1200: Max 8 test contacts and 4 test indication contacts.
OS400-800: Max 4 test contacts and 4 test indication contacts. The test contacts can be used as standard auxiliary contacts as well. Auxiliary contacts for 3 + N types only with the OEA28 module (Screw mounting to the left side of the switch).

Detachable neutral links

Description	For use on:	Catalog number	List price
Mounting separately on baseplate protected construction	OS400 OS600-800 OS1200	OXN400 OXN800S OXN1250S	

Terminal shrouds

For use on:	Lug type	Number of poles	Catalog number	List price
OS400J03	OZXA-400	3P	OESA-ZX70	
OS600J03	OZXA-800	3 x 1P	OSS800G1L/3	
OS400J12	OZXA-400	3P	OETL-ZX94	
OS600J12	OZXA-800	3 x 1P	OSS800G1L/3	
OS800L03	OZXA-800	3 x 1P	OSS800G1L/3	
OS1200L03	OZXA-1200	3 x 1P	OSS1250G1L/3	

Locking accessories

Description	For use on:	Catalog number	List price
Cam attachment for Kirk Key, interlock. For adapting to the interlock system. The interlock is not included.	OS400...1200	OETL-ZW5	

Fuse monitor, suitable for 3 phase circuits – OS200-800

Description	AC rated voltage	Catalog number	List price
The Red LED indicates any BLOWN fuse and the 1 NO and 1 NC aux. contact gives an alarm or a trip signal. The Green LED indicates NORMAL status.	100...240 380...600	OFM240 OFM600	
Terminal crimp for OS, kit of 6 pieces		OFMZX2	
Terminal crimp for OS1200, kit of 6 pieces		OFMZX4	

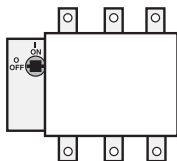
Shaft extension coupler

Description	For use on:	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	OETL-ZX95	

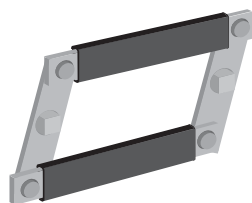
Shorting bars

Description	For use on:	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid links	OS400, OS600, OS800	800	600	OESA-ZL79	

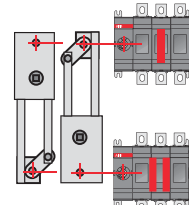
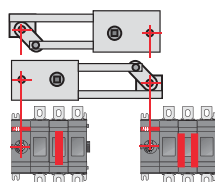
★ - Coil voltage
① Not CSA Approved



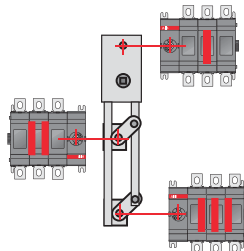
Accessories for 400A – 1200A fusible disconnect switches



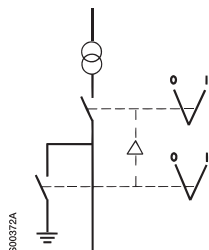
OETL-ZW9



Change-over switches



Change-over and
by-pass switches



Mechanical Interlock

Conversion mechanisms

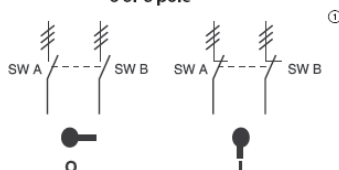
- Switches are not included

Description	For use on:	Catalog number	List price
6 or 8 pole Transfer Bypass	OS400	OETL-ZW9 OETL-ZW12 OETL-ZW13	
Mechanical interlock	OS400 ... OS1200	OETL-ZW15	

The shafts and handles for conversion kits

Conversion kit type	To be ordered separately		Included in conversion kit delivery		The standard handle or shaft of one of the combined switches can be used	
	Shaft	Handle	Shaft	Handle	Shaft	Handle
6 and 8-pole switches						
OETLZW9	-	-	-	-	X	X
Change-over switches						
OETLZW12	-	-	X (2 pcs)	YASDA21	-	-
By-pass switches						
OETLZW13	-	-	X (3 pcs)	YASDA6	-	-
Mechanical interlock						
OETLZW15	-	-	-	-	x	x

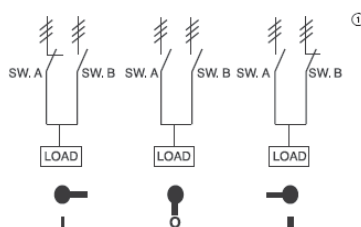
6 or 8 pole



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

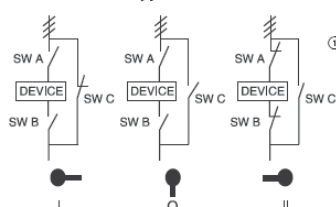
Transfer



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

Mech. interlock



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

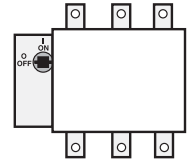
① = Three poles



Other configurations

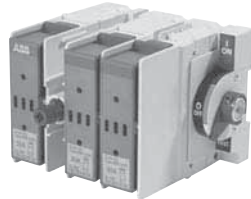
Side operated ①

30A – 400A, CSA fuse class J,CC,T



For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug



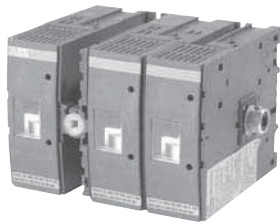
OS30FA_S_



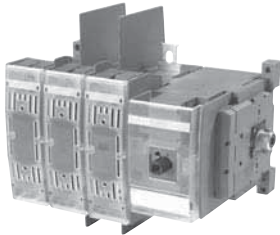
OSP6X210



OHY65J6



OS60JS30



OS100JS30



OETL-ZX74



OSP12X325



OZX-25

Side operated switches — 3 pole

CSA general purpose amp rating	CSA fuse type 600V	Maximum horsepower rating					Catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OS30FAJS30	
30	CC	5	7.5	7.5	15	20	OS30FACCS30	
60	J	15	15	15	30	50	OS60GJS30	
100	J [Ⓢ]	25	25	30	60	75	OS100GJS30	
200	J [Ⓢ]	50	50	60	125	150	OES200J3-S	
400	J [Ⓢ]	100	125	125	250	350	OES400J3-S	

Handles

CSA/NEMA type	IEC type	Color	Length mm	Marking	Defeatable	Padlockable	Catalog number	List price
For use with OS30A S30								
1, 3R, 12	IP65	Black	2.6/65	OFF/ON	Yes	Yes	OHB65J6	
1, 3R, 12	IP65	Red/Yel	2.6/65	OFF/ON	Yes	Yes	OHY65J6	
For use with OS60GJS30 & OS100GJS30								
1, 3R, 12	IP65	Black	3.1/80	OFF/ON	Yes	Yes	OHB80J6	
1, 3R, 12	IP65	Red/Yel	3.1/80	OFF/ON	Yes	Yes	OHY80J6	
For use with OES200J3-S & OES400J3-S								
1, 3R, 12	IP65	Black	4.9/145	OFF/ON	Yes	Yes	OHB145J12	
1, 3R, 12	IP65	Red/Yel	4.9/145	OFF/ON	Yes	Yes	OHY145J12	
1, 3R, 12	IP65	Metal	4.9/145	OFF/ON	No	Yes	OETL-ZX74	

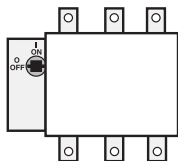
Shafts

For use on :	Length mm	Description	Catalog number	List price
OS30FAJS30 TO OS100GJS30	170	6 x 6mm	OSP6X210	
OES200J3-S & OES400J3-S	325	12 x 12mm	OSP12X325	

Terminal lug kits

For use on:	Wire size	Weight	Wire type	Lugs per kit	Catalog number	List price
OS30AJS30 & OS30ACCS30	#18 – 8	—	Cu	—	Integral	—
OS60GJS30	#14 – 4	—	Cu	—	Integral	—
OS100GJS30	#14 – 2/0	0.43	Cu/Al	6	OZX-24	
OES200J3-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZX-25	
OES400J3-S	#2 – 600 kcmil	3.50	Cu/Al	6	OZX-26	

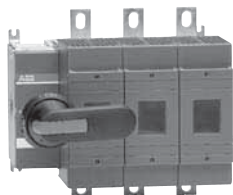
① J type fuse clips are standard. If 600V Type "T" fuse clips are desired, please order the "T" type fuse adapter kit.



Flange operated disconnect switches

Cable operated fusible

30A – 200A



OS200J03P



OHF1C12

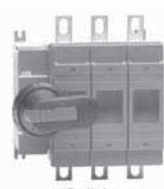


OXC1L36



OZXA-200

For a complete assembly, please select one each of the following



Switch



Handle



Cable



Lug kit (as required)



Operating mechan

30A - 800A fusible disconnect switches

CSA general purpose amp rating A	CSA/UL fuse type 600V	Maximum horsepower rating				Poles	Catalog number	List price
		Three phase						
		200V-208V	240V	480V	600V			
30	CC	5/7.5	7.5	15	20	3	OS30FACC12	
30	J	5/7.6	7.6	15	20	3	OS30FAJ12	
60	J	15	15	30	50	3	OS60GJ12	
100	J/T	25	30	60	75	3	OS100GJ30	
200	J/T	50	60	125	150	3	OS200J30	

Operating mechanisms

For use on:	Catalog number	List price
OS30FAJ12, OS30FACC12 OS60GJ12 OS100GJ30, OS200J30	MKCS2 MKCS3 MKCS4	

Flange handle

For use with:	Nema Type	Catalog number	List price
OS30_ - OS200J03_	1, 3R, 12	OHF1C12	
	1, 3R, 4, 4X, 12	OHF1C4	

Cable

For use with:	Cable length (inches)	Catalog number	List price
OS30_ - OS200J03_	36	OXC1L36	
	48	OXC1L48	
	60	OXC1L60	
	72	OXC1L72	
	84	OXC1L84	
	96	OXC1L96	
	108	OXC1L108	

Terminal lug kit

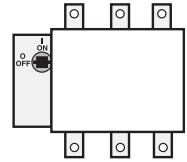
For use on:	Wire size	Wire type	Lugs/kit	Catalog number	List price
OS30_ OS60GJ12 OS100GJ30	#18 - 8/0	Cu	--	Integral	
	#14 - 4	Cu	--	Integral	
	#14 - 2/0	Cu/Al	6	OZXA-24	
OS200J30	#4 - 300 kcmil (6) #4 - 6 AWG	Cu/Al Cu/Al	6 3	OZXA-200 OZXA-206S	



Other configurations

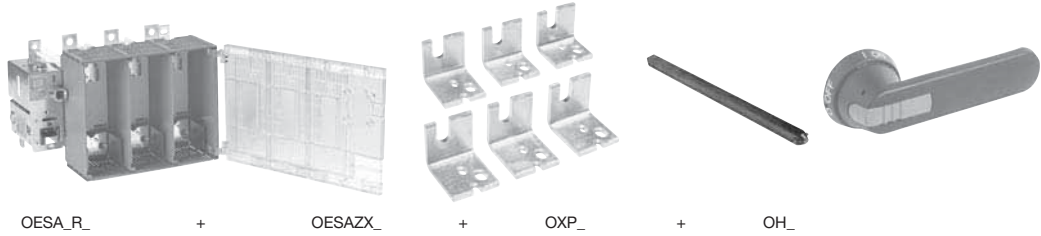
High speed fuse pattern

Special type fuses



For a complete assembly,
please select one of each:

- 1 switch body
- 1 adapter kit
- 1 shaft
- 1 handle



Selecting switch bodies and adapter kits

Please select switch body and adapter kit according to your fuses. Switch body alone can not be used — an adapter kit is always needed.

Switch bodies – 200A through 800A

CSA general purpose amp rating	Maximum horsepower rating				Max. allowed fuse power dissipation at rated current	Catalog number	List price
	Three phase						
	208V	240V	480V	600V			
3 pole							
200	50	60	125	150	22W	OES200R03	
400	125	125	250	350	45W	OES400R03	
600	150	200	400	500	60W	OES600R03	
800	200	250	500	600	65W	OES800R03	
4 pole							
200	50	60	125	150	22W	OES200R04	
400	125	125	250	350	45W	OES400R04	
600	150	200	400	500	60W	OES600R04	
800	200	250	500	600	65W	OES800R04	

Fuse adapter kits — for switches OES200 - OES400

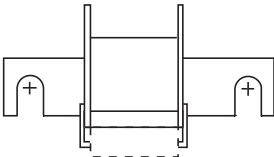
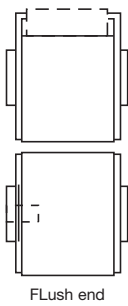
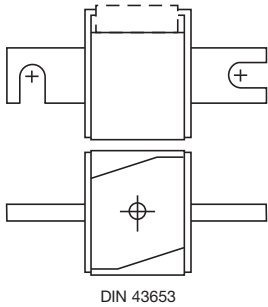
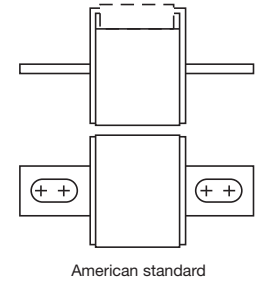
Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard	OESAZX1-S4 OESAZX1-S5		OESAZX1-S4/4 OESAZX1-S5/4	
DIN80 (DIN43653)	OESAZX1-S7		OESAZX1-S7/4	
DIN 80 sizes 00 and 000 (DIN 43653)	OESAZX1-S9		OESAZX1-S9/4	
DIN110 (DIN43653)	OESAZX1-S2		OESAZX1-S2/4	
DIN140 (DIN43653)	OESAZX1-S6		OESAZX1-S6/4	
Flush-end, 70 mm body	OESAZX1-S8		OESAZX1-S8/4	
Flush-end, 50 mm body	OESAZX1-S3		OESAZX1-S3/4	
French	OESAZX1-S10		OESAZX1-S10/4	
French with micro switches	OESAZX1-S11		OESAZX1-S11/4	

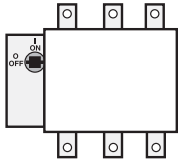
Fuse adapter kits — for switches OES600 - OES800

Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard	OESAZX2-S4		OESAZX2-S4/4	
DIN80, DIN 110, DIN 140 (DIN43653)	OESAZX2-S2		OESAZX2-S2/4	
Flush-end, 50 mm and 70 mm body	OESAZX2-S3		OESAZX2-S3/4	
French	OESAZX2-S5		OESAZX2-S5/4	
French with micro switches	OESAZX2-S6		OESAZX2-S6/4	

Handles and shafts — see pages 2.14

Selecting the right fusible disconnect for HSF fuses may be difficult. Due to CSA restrictions it is not possible to give a general fuse selection table for your use. Therefore we ask you to contact ABB, in application issues. Information needed is nominal current of the application and catalog number of the fuse





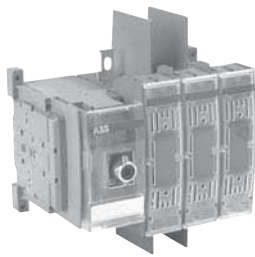
Other configurations

Fusible switches, DIN-Type

32A – 800A



OS63D12



OS160

Fusible switches, DIN - Type (32A - 800A)

Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	400V	500V	690V			
3 pole						
32	15	18.5	22	000, 00	OS32FD12	
63	30	37	55	000, 00	OS63D12	
125	55	75	110	000, 00	OS125D12	
160	75	90	132	000, 00	OS160D12	
200	110	132	200	0	OS200D12P	
250	140	170	250	0, 1	OS250D12P	
400	220	280	400	0, 2	OS400D12P	
630	355	450	560	3	OS630D12P	
800	400	500	710	3	OS800D12P	
4 pole						
32	15	18.5	22	000, 00	OS32FD22F	
63	30	37	55	000, 00	OS63D22F	
125	55	75	110	000, 00	OS125D22F	
160	75	90	132	000, 00	OS160D22F	
200	110	132	200	0	OS200D22N2P	
250	140	170	250	0, 1	OS250D22N2P	
400	220	280	400	0, 2	OS400D22N2P	
630	355	450	560	3	OS630D22N2P	
800	400	500	710	3	OS800D22N2P	



DIN fuses are mainly used in continental Europe (excluding France below 125A), Asia, Africa and South-America

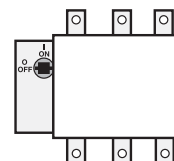
① Please consult factory for additional information.



Other configurations

Fusible switches, NFC-Type

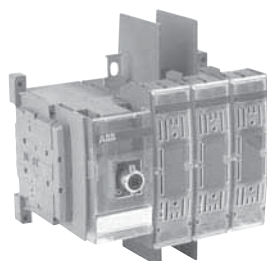
63A – 125A, 14x51 & 22x58



OS32FF1214



OS63F12



OS125F03

Fusible switches, NFC-Type

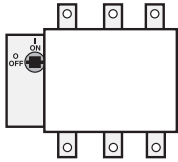
Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	400V	500V	690V			
3 pole						
25	11	15	22	10x38	OS25FF1210	
32	11	18.5	22	14x51	OS32FF1214	
50	20	30	37	14x51	OS50F12	
63	30	37	55	22x58	OS63F12	
100	55	55	90	22x58	OS100F12	
125	55	75	110	22x58	OS125F12	
4 pole						
25	11	15	22	10x38	OS25FF2210N1	
32	11	18.5	22	14x51	OS32FF2214N1	
50	20	30	37	14x51	OS50F22N1	
63	30	37	55	22x58	OS63F22N1	
100	55	55	90	22x58	OS100F22N1	
125	55	75	110	22x58	OS125F22N1	



NFC fuses are used in France and in French speaking Africa

① Please consult factory for additional information.



Other configurations

Fusible switches, BS-Type

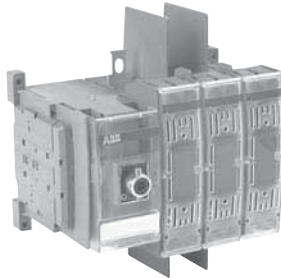
20A – 800A



OS32FB12A1



OS63B12



OS160

Fusible switches, BS - Type

Handle and shaft included

Rated current	AC23A rated operational power in kW			Fuse type	Catalog number	List price
	230V	400V	690V			
3 pole						
20	7.5	11	15	A1	OS20FB12A1	
32	11	18.5	22	A2, A3	OS32FB12	
63	30	37	55	A2, A3	OS63B12	
100	55	55	90	A2, A3	OS100B12	
125	55	75	110	A2, A3, A4	OS125B12	
160	75	90	132	A2, A3, A4	OS160B12	
200	110	132	200	B1, B2	OS200B12P	
250	140	170	250	B1-B3	OS250B12P	
315	160	220	220	B1-B4	OS315B12P	
400	220	280	400	B1-B4	OS400B12P	
630	355	450	560	C1, C2	OS630B12P	
800	400	500	710	C1-C3	OS800B12P	
4 pole						
20	7.5	11	15	A1	OS20FB22A1N1	
32	11	18.5	22	A2, A3	OS32FB22N1	
63	30	37	55	A2, A3	OS63B22N1	
100	55	55	90	A2, A3	OS100B22N1	
125	55	75	110	A2, A3, A4	OS125B22N1	
160	75	90	132	A2, A3, A4	OS160B22N1	
200	110	132	200	B1, B2	OS200B22N2P	
250	140	170	250	B1, B3	OS250B22N2P	
315	160	220	220	B1, B4	OS315B22N2P	
400	220	280	400	B1, B4	OS400B22N2P	
630	355	450	560	C1, C2	OS630B22N2P	
800	400	500	710	C1, C3	OS800B22N2P	



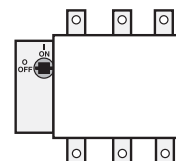
BS fuses are widely used in UK, South-Africa, Australia and Hong Kong



Other configurations

Global concept disconnect switches

32A – 60A



For a complete assembly,
please select one of each:

- 1 fusible disconnect body
- 1 set of fuse carriers
- 1 shaft
- 1 handle



OS63X12



OSC_



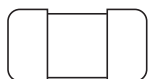
OX_



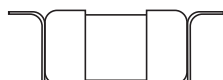
OH_



DIN Neozed 0_



NFC STYLE



BS88

NOTE: Handles and shafts — see
pages 2.8 for OS32_ and page 2.10
for OS63_.

About the global concept ...

Customers in Boston and Berlin?

Do your customers in Boston prefer UL Class J fuses and your customers in Berlin specify DIN standard fuses? No problem!

ABB Global concept fusible disconnect switches offer the flexibility to design a panel using a common disconnect

body. When the panel destination is known, simply insert the appropriate fuse carrier.

Global concept = common disconnect body + an assortment of fuse carriers.

High volumes with various fuse types — Global concept.

Fusible disconnect bodies — 30A & 60A

UL general purpose amp rating	IEC AC21 amp rating	Description	Catalog number	List price
30	32	3 pole 4 pole 3 pole + neutral 3 pole, side operation 4 pole, side operation 3 pole + neutral, side operation	OS32M12 OS32M22F OS32M22N1 ^① OS32MS30 OS32MS40F OS32MS40N1 ^①	
60	63	3 pole 4 pole 3 pole + neutral 3 pole, side operation 4 pole, side operation 3 pole + neutral, side operation	OS63X12 OS63X22F OS63X22N1 ^① OS63XS30 OS63XS40F OS63XS40N1 ^①	

Fuse carriers for 3 pole units and units with neutral ^②

For use on:	Fuse type	Catalog number	List price
OS32M_	UL J 30A UL CC 30A DIN Neozed D01 DIN Neozed D02 NFC 10x38 NFC 14x51 BS88 A1 BS88 A2 BS88 E1 BS88 F1	OSC30AJ3 OSC30ACC3 OSC16D301 OSC35D302 OSC25F310 OSC32F314 OSC32B3A1 OSC32B3A2 OSC32B3E1 OSC32B3F1	
OS63X_	UL J 60A NFC 14x51 NFC 22x58 BS88 A2, A3 CSA C30, C60 DIN 000, 00	OSC60J3 OSC50F3 OSC63F3 OSC63B3 OSC63D3	

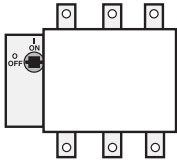
Fuse carriers for 4 pole units ^③

For use on:	Fuse type	Catalog number	List price
OS32M_	UL J 30A UL CC 30A DIN Neozed D01 DIN Neozed D02 NFC 10x38 NFC 14x51 BS88 A1 BS88 A2 BS88 E1 BS88 F1	OSC30AJ4 OSC30ACC4 OSC16D401 OSC35D402 OSC25F410 OSC32F414 OSC32B4A1 OSC32B4A2 OSC32B4E1 OSC32B4F1	
OS63X_	UL J 60A NFC 14x51 NFC 22x58 BS88 A2, A3 CSA C30, C60 DIN 000, 00	OSC60J4 OSC50F4 OSC63F4 OSC63B4 OSC63D4	

① N1-versions will be delivered with neutral carrier.

② Part number includes 3 pieces of fuse carriers.

③ Part number includes 4 pieces of fuse carriers.



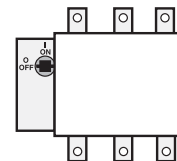
Notes



Lined area for notes, consisting of multiple horizontal lines.



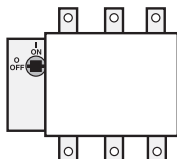
CSA & UL Technical data for fusible disconnect switches OS30 – OS1200L03



CSA & UL

Catalog number	3 pole	OS30FAJ12	OS60J12	OS100J12	OS200J03	OS400J03	OS600J03	OS800L03	OS1200L03
Approvals ^①	2 pole	N/A	N/A	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	3 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
	4 pole	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4	CSA C22.2 No.4
Technical ratings	40°C								
General purpose amp rating	A	30	60	100	200	400	600	800	1200
pf = 0.7 – 0.8									
Max operating voltage	V	600	600	600	600	600	600	600	600
Max horsepower rating/ Max motor FLA current pf = 0.4 – 0.5									
Three phase									
208V	HP/A	7.5/24	15/46	25/75	50/150	100/300	150/396	150/396	—
240V	HP/A	7.5/22	15/42	30/80	60/154	125/312	200/480	200/480	—
480V	HP/A	15/21	30/40	60/77	120/156	250/302	400/477	500/590	—
600V	HP/A	20/22	50/52	75/77	150/144	350/336	500/472	500/472	—
Single phase									
120V	HP/A	2/24	—	—	—	—	—	—	—
240V	HP/A	3/17	—	—	—	—	—	—	—
Short circuit rating with fuse	kA	200	200	200	200	200	200	200	200
CSA Fuse size	A	30	60	100	200	400	600	800	1200
CSA Fuse type		J/CC	J	J/T	J/T	J/T	J/T	L	L
Endurances									
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	6000	6000	6000	1000	1000	500	500
Mechanical endurance operation		20,000	20,000	20,000	16,000	12,000	4000	3000	3000
Physical characteristics									
Weight	3 pole Kg	0.7	1.3	1.5	2.6	5.7	11.5	11.5	29
	4 pole Kg	0.9	1.6	1.8	3.2	6.9	14	14	36
Dimension 3 pole	H mm	97	100	144	200	230	306	306	287
	W mm	106	145	180	182	255	343	343	429
	D mm	107	128	120	132	176	233	233	294
Shaft size square □	mm	5 x 5	6 x 6	6 x 6	6 x 6	12 x 12	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches	lb. in.	26	35	70	—	195	248	248	—
Terminal lug kits		Standard	Standard	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-800	OZXA-1200
Wire range AWG	#18 – #8	#14 – #4	#14 – 2/0	#4 – 300 kcmil	#2 – 600 kcmil	(2) #2 – 600 kcmil	(2) #2 – 600 kcmil	(2) #2 – 600 kcmil	(4) #2 – 600 kcmil
Torque:									
Wire tightening	lb. in.	17	30	120	275	500	500	500	500
Lug mounting	lb. in.	Integral	Integral	50	150	480	480	480	480
Auxiliary contacts		OA_G_	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	600	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10	10
AC maximum volt ampere making VA		7200	7200	7200	7200	7200	7200	7200	7200
AC maximum volt ampere breaking VA		720	720	720	720	720	720	720	720
NEMA ratings, DC		R300	R300	R300	P600	P600	P600	P600	P600
DC rated voltage	VDC	300	300	300	600	600	600	600	600
DC thermal rated current	A	1	1	1	1	1	7	7	7
DC maximum make break current A		28	28	28	28	28	28	28	28
Torque:									
Wire tightening	lb. in.	7	7	7	7	7	7	7	7
Wire range AWG		#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14	#18 – #14

① The following CSA approved switches are also UL Listed.



IEC Technical data

Fusible disconnect switches

OS30 – OS1200L03



IEC

Catalog number	3 pole	OS30FA_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OS800L03	OS1200L03
Technical ratings	-40° to 40°C								
Rated insulation voltage									
Pollution degree 3 ⑤	V	1000	1000	1000	1000	1000	1000	1000	1000
Dielectric strength 50Hz/60Hz, 1 min	kV	10	10	10	10	10	10	10	10
Rated impulse withstand voltage	kV	12	12	12	12	12	12	12	12
Rated thermal current, I _{th} /max. fuse power dissipation ①									
AC 20/DC 20 open ②	A/W	32/3.5	63/7.5	160/12	200/17	400/45	630/60	800/65	
40°C enclosed	A/W	32/3.5	63/7.5	160/10, 135/12	200/17	400/34, 360/37	600/45, 570/50	720/55	
Enclosed with solid links	A/W	32	85	175	280	450	700	900	
with minimum cable cross section Cu mm²		6	16	70	95	240	2 x 185	2 x 240	
Rated operational voltage AC 20 and DC 20V		1000	1000	1000	1000	1000	1000	1000	1000
AC Rated operational currents									
AC 21A	≤500V A	32	63	160	200	400	630	800	1250
	≤690V A	32	63	160	200	400	630	800	1250
AC 22A	≤500V A	32	63	160	200	400	630	800	1250
	≤690V A	32	63	160	200	400	630	800	1250
AC 23A	≤500V A	32	63	160	200	400	630	800	1000
	≤690V A	32	63 ③	160 ③	200	400	630	800	1000
DC Rated operational currents/poles in series									
DC21A	48V A	32/2	63/2	160/2	200/1	400/2			
	110V A	32/2	63/3	160/2	200/1	400/2			
	220V A	32/2	63/3	160/2	200/1	400/2			
	440V A	32/4	63/4	160/3	200/2	400/3			
	750V A	—	—	—	180/4	400/4			
	1000V A	—	—	—	—	—			
DC22A	48V A	32/2	63/2	160/2	200/1	400/2			
	110V A	32/2	63/3	160/2	200/1	400/2			
	220V A	32/2	63/3	160/2	200/1	400/2			
	440V A	32/4	63/4	160/3	200/2	400/3			
	750V A	—	—	—	180/4	400/4			
	1000V A	—	—	—	—	—			
DC23A	48V A	32/2	63/2	160/2	200/1	400/2			
	110V A	32/2	63/3	160/2	200/1	400/2			
	220V A	32/2	63/3	160/2	200/1	400/2			
	440V A	32/4	63/4	125/4	200/2	400/3			
	750V A	—	—	—	180/4	400/4			
	1000V A	—	—	—	—	—			
Rated operational power AC23A									
230V	kW	7.5	18.5	45	60	132	200	250	315
400V	kW	15	30	75	110	220	355	450	560
415V	kW	15	30	75	110	230	355	450	560
500V	kW	18.5	37	90	132	280	450	560	710
690V	kW	22	55	132	200	400	630	710	1000

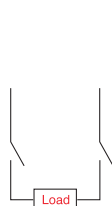


Figure 1



Figure 2

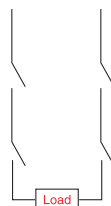
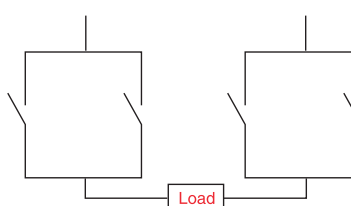


Figure 3



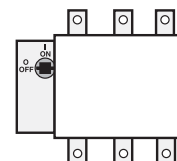
- ① Ambient temperature 60°C: derating 20 percent. Mounting on ceiling: derating 10 percent. Mounting on wall, horizontal fuses: derating 8 percent.
 ② The ambient air temperature does not exceed +40°C and its average over a period of 24h does not exceed +35°C according to IEC 947.
 ③ For 30A switches, use 2 + 2 parallel contacts in series.
 ④ Available on request.
 ⑤ IEC 947-3, utilization category B, infrequent operation.
 ⑥ Pollution degree 3: Conductive pollution occurs, or dry, non-conductive pollution occurs, which becomes conductive due to condensation.



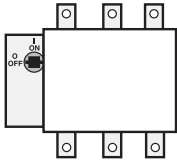
IEC Technical data

Fusible disconnect switches

OS30 – OS1200L03



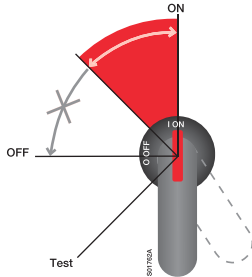
Catalog number			3 pole	OS30FA_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OS800L03	OS1200L03
Rated breaking capacity											
in category AC-23A		500V	A	256	504	1280	1600	3200	5760	5760	
		690V	A	256	504	1280	1600	3200	5760	5760	
Rated breaking capacity/poles in series											
in category DC-23		<220V	A	128/2	—	—	1000/2	1600/2	3200/2	3200/2	
		440V	A	128/4	—	—	1000/2	1600/2	3200/2	3200/2	
		500 – 750V	A	—	—	—	1000/3	1600/3	3200/3	3200/3	
		1000V	A	—	—	—	—	3200/4	3200/4	3200/4	
Rated conditional short-circuit current r.m.s. ③											
		80 kA, 415V	kA	9	17	22	35	40	75	75	
		100 kA, 500 V	kA	7.5	17	22	37.5	40	75	75	
		50 kA, 690 V	kA	6	13	15	35	35	60	60	
Rated short time withstand current, 1s.		kA	1	2.5	5	8	10	16	16		
Rated capacitor power											
The capacitor rating of the fusible disconnect switch is limited by the fuse link											
		400 V	kVar	15	30	—	—	180	250	310	
		415V	kVar	15	32	—	—	200	270	340	
		690V	kVar	25	50	—	—	325	450	550	
Power loss/pole											
with rated current, without fuse		W	2	4	9	8	30	46	75		
		operations	20,000	20,000	20,000	20,000	16,000	4000	3000	6000	
Fuse types, IEC 269-2		DIN 43620	—	000, 00	000, 00	0 – 1	0 – 2	3	3	4, 4a	
		NFC	10 x 38, 14 x 51	14 x 51, 22 x 58	22 x 58	0 – 1	0 – 2	3	3		
size/distance of link bolts		BS 88	A1, A2, F1	A2 – A3	A2 – A4	B1 – B2	B1 – B4	C1 – C2	C1 – C3	D1	
			M4/44.5(A1) M5/73(A2)	M5/73	M5/73 M8/94	M6/111	M8/111	M10/133, 184	M10/133, 184	2xM12/149	
Physical characteristics											
Weight		3 pole	kg	0.7	1.3	1.5	2.6	5.7	13	13	29
		4 pole	kg	0.9	1.6	1.8	3.2	6.9	17	17	36
Dimension		3 pole	H mm	93	100	144	200	226	306	306	287
			W mm	106	143	179	182	286	343	343	429
			D mm	104	120	129	132	198	233	233	294
		square □ mm	5 x 5	6 x 6	6 x 6	6 x 6	12 x 12	12 x 12	12 x 12	12 x 12	
Terminals											
Built-in terminal size mm ²			0.5 – 10	2.5 – 25	—	—	—	—	—	—	
Terminal bolt size, metric thread											
diameter x length mm		—	—	—	M6 x 20	M8 x 25	M10 x 40	M12 x 40	M12 x 40	M12 x 40	
Terminal bolt tightening torque		Nm	2	3.5	6 – 9	15 – 22	30 – 44	50 – 75	50 – 75	50 – 75	
Fuse-links bolts tightening torque		Nm	2	3.5	3.5 – 5	4	15	40	40	—	
Operating torque		Nm	3	4	8	7	22	28	28	65	
Auxiliary contacts			OA4G_	OA1/3G	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_	OA_G_
Ratings according to IEC 947-5-1											
Rated voltage, U _i		VAC	690	690	690	690	690	690	690	690	
Thermal current, I _{th}		A	10	16	16	16	16	16	16	16	
AC12 / DC12, I _e		U _e =24V	A	— / 6	—	—	—	—	—	—	—
		120V	A	— / 6	—	—	—	—	—	—	—
		125V	A	—	—	—	—	—	—	—	—
		230V	A	—	6 / —	6 / —	6 / —	6 / —	6 / —	6 / —	6 / —
		250V	A	3 / 0.1	—	—	—	—	—	—	—
		400V	A	—	4 / —	4 / —	4 / —	—	—	—	—
		415V	A	—	—	—	—	—	—	—	—
		440V	A	2 / —	—	—	—	—	—	—	—
		480V	A	—	—	—	—	—	—	—	—
		500V	A	—	—	—	—	—	—	—	—
		600V	A	—	—	—	—	—	—	—	—
690V	A	—	2 / —	2 / —	2 / —	2 / —	2 / —	2 / —	2 / —		



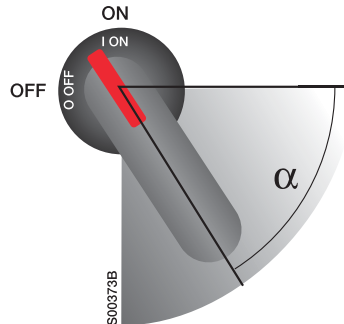
Auxiliary contact timing diagrams OS30_ – OS100



- The handle indicates the position of the contacts with complete reliability in all situations. If the contacts are welded together, the handle doesn't reach the OFF-position but remains between ON and OFF, maintaining the door interlock and padlocking is not possible to do.
- When operating the switch to the Test-position with a test handle the test auxiliary contacts change position. The main contacts remain open.



ON and OFF-functions of main and auxiliary contacts



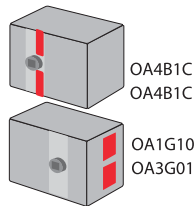
Closing

1. Main contacts close
2. NO auxiliary contacts close
3. NC auxiliary contacts open

Opening

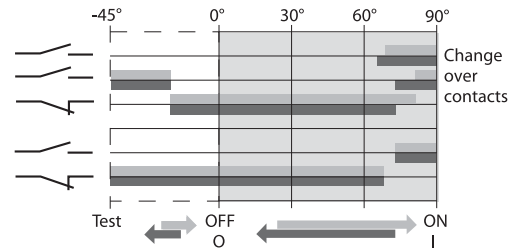
4. Main contacts open
5. NO auxiliary contacts open
6. NC auxiliary contacts close

OS 30_

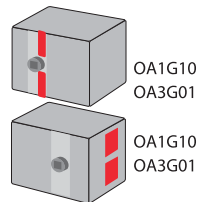


Main contacts
NO auxiliary contact
NC auxiliary contact

NO auxiliary contact
NC auxiliary contact

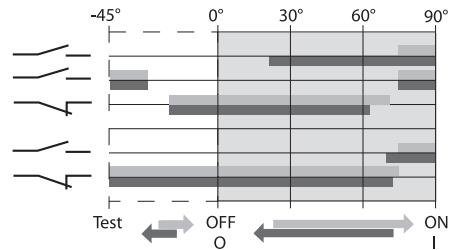


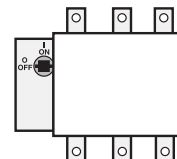
OS 60_



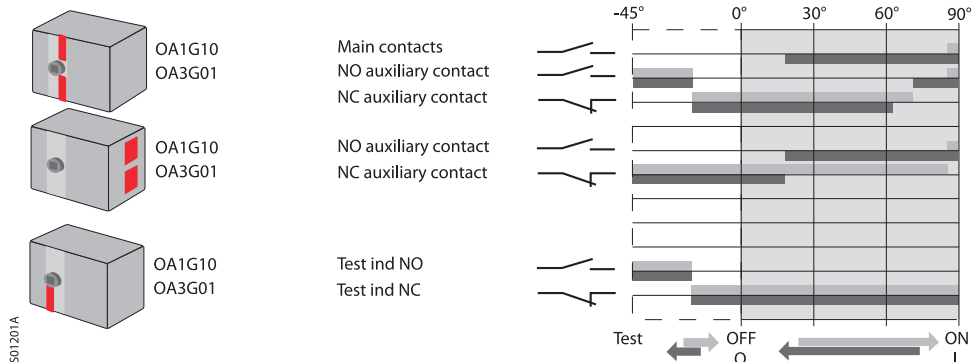
Main contacts
NO auxiliary contact
NC auxiliary contact

NO auxiliary contact
NC auxiliary contact



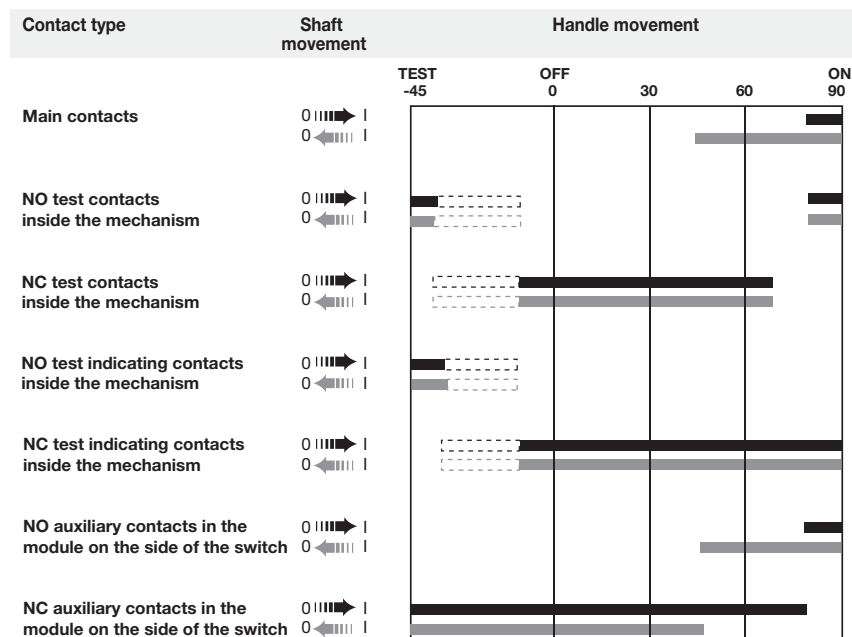


OS 100_



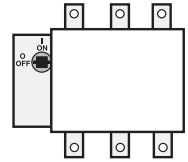
OS200-1200

ON and OFF-fuctions of main and auxiliary contacts

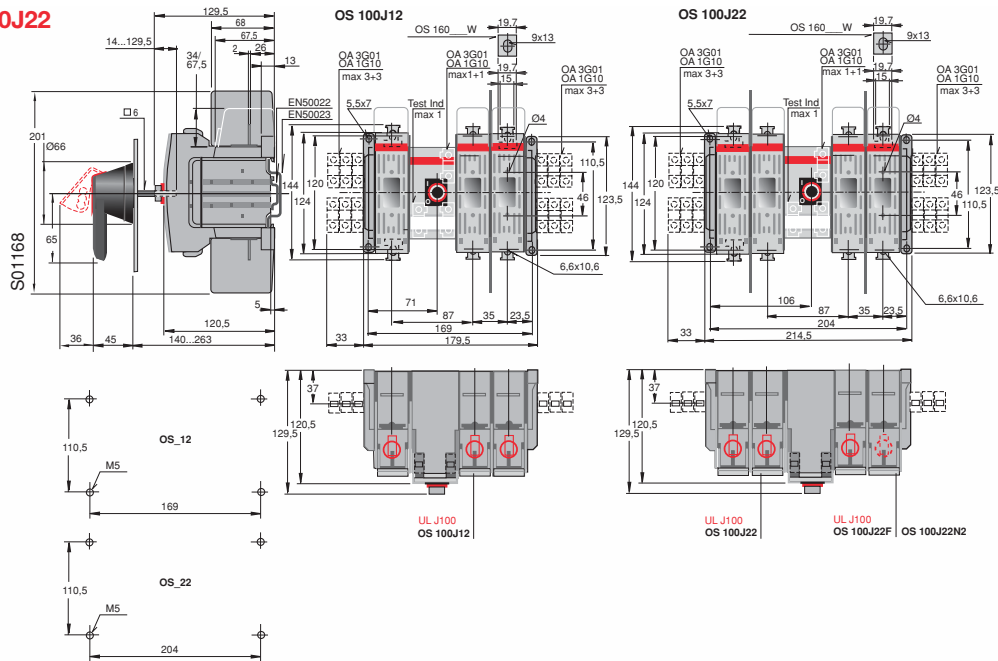




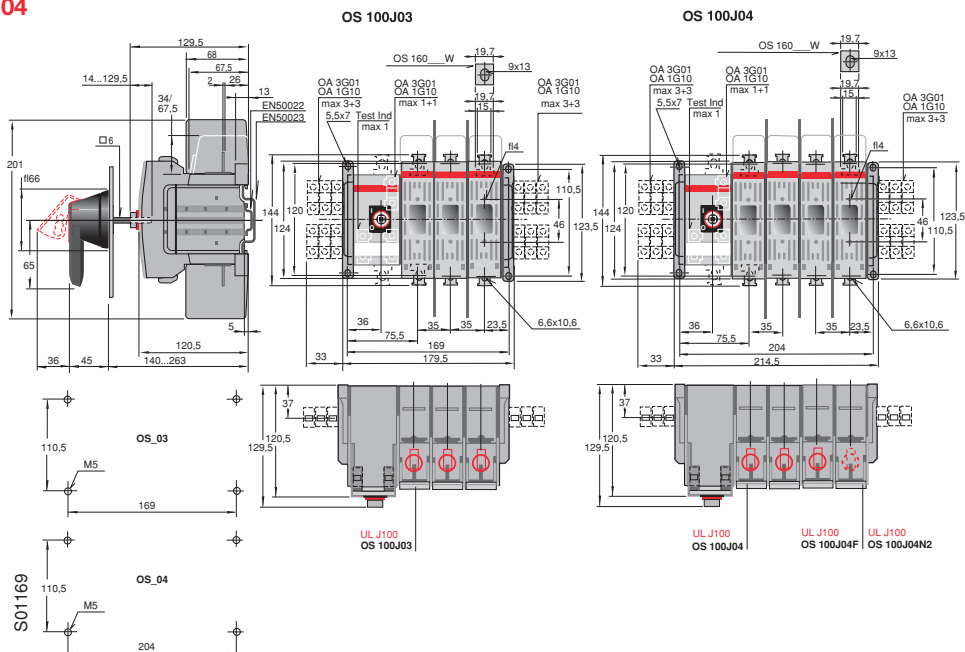
Approximate dimensions Fusible disconnect switches OS100J12, J03

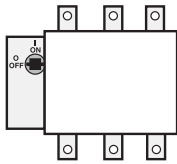


OS100J12, OS100J22



OS100J03, OS100J04





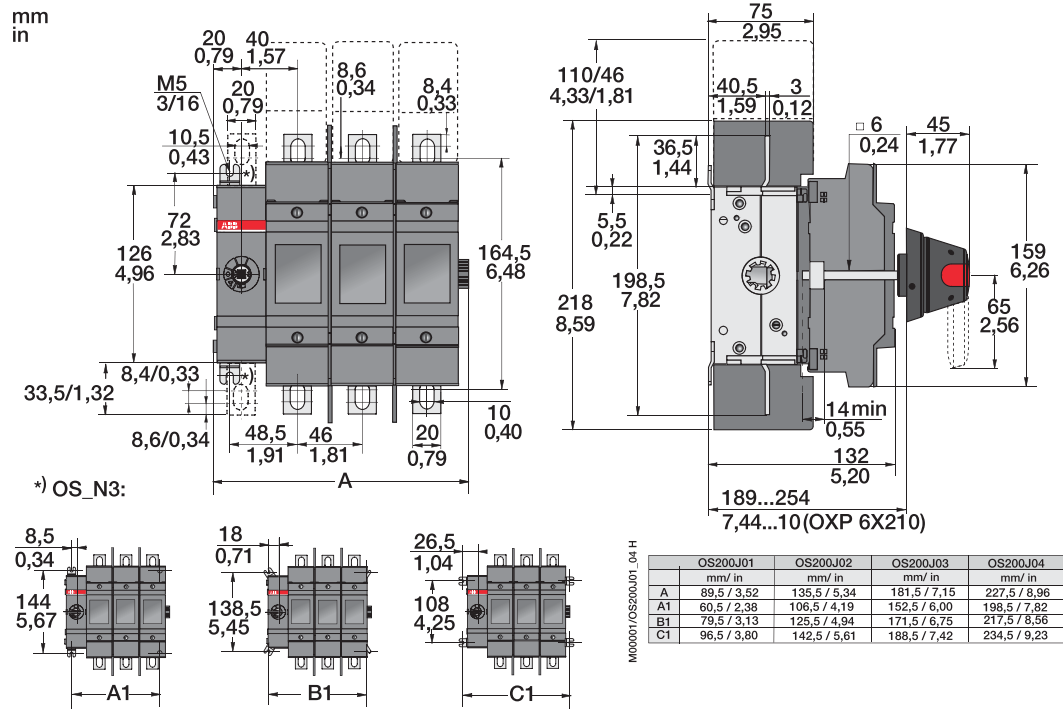
Approximate dimensions

Fusible disconnect switches

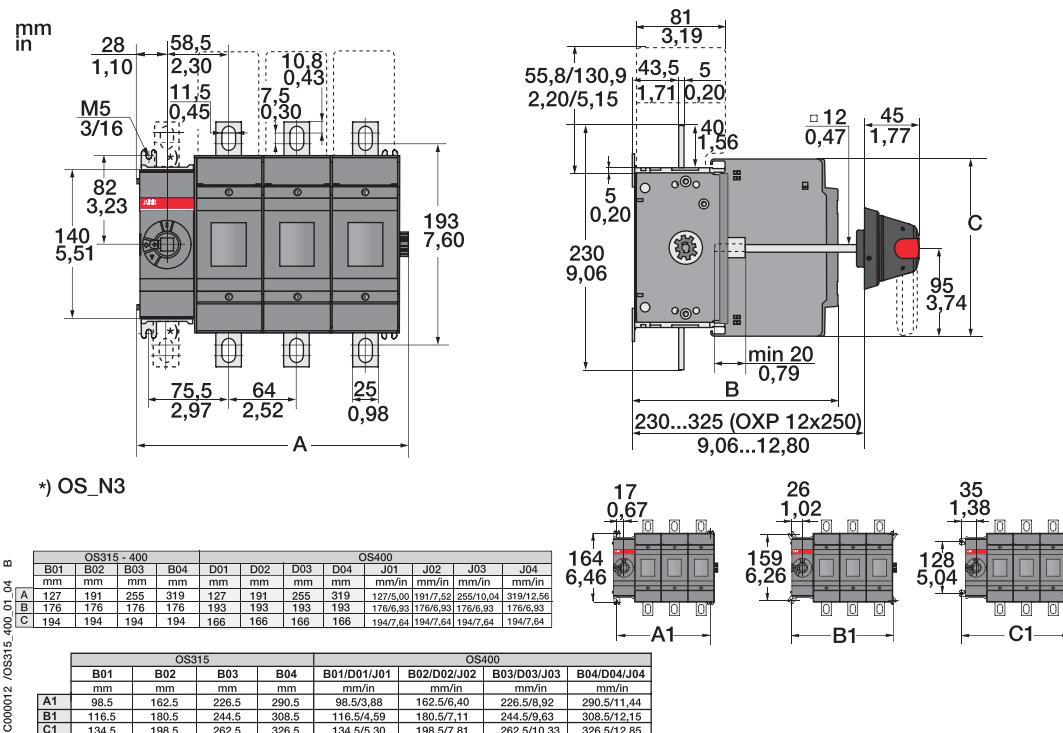
OS200 – OS400

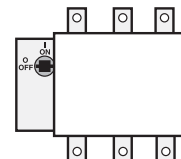


OS200J

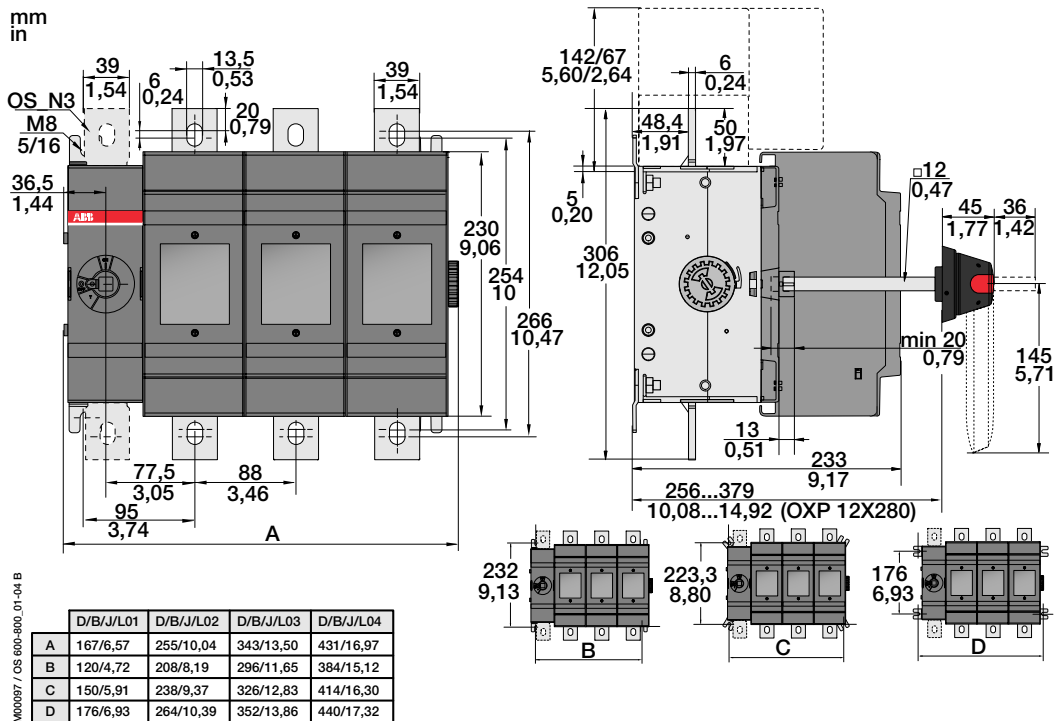


OS400J

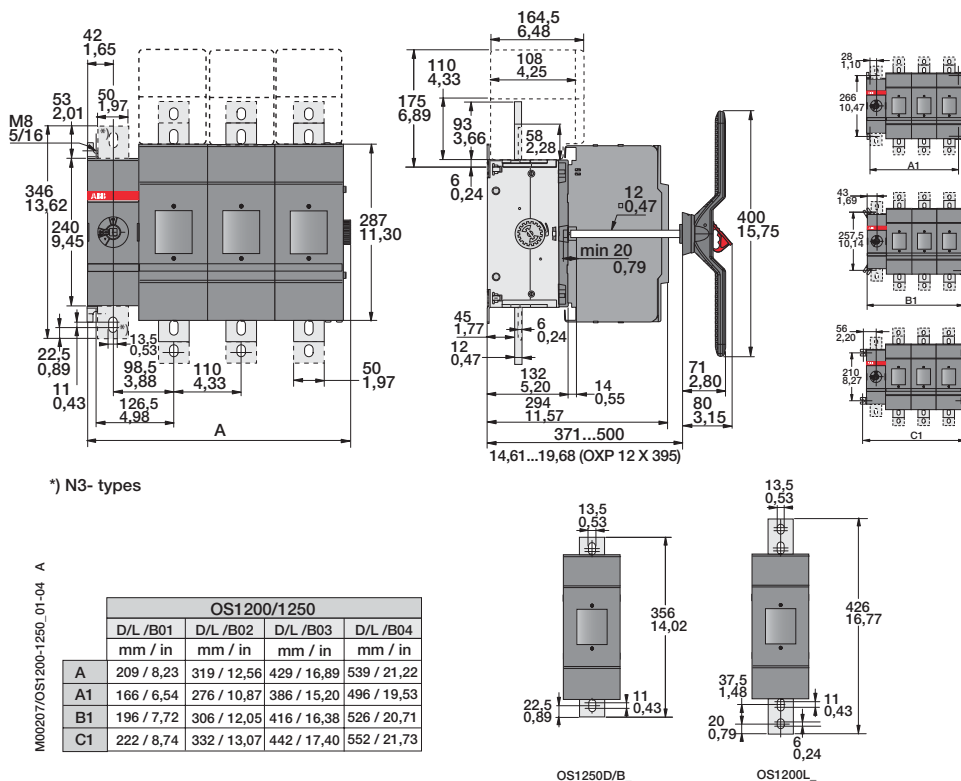


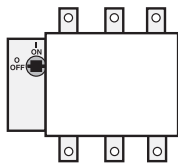


OS600J03-OS800L03



OS1200L03

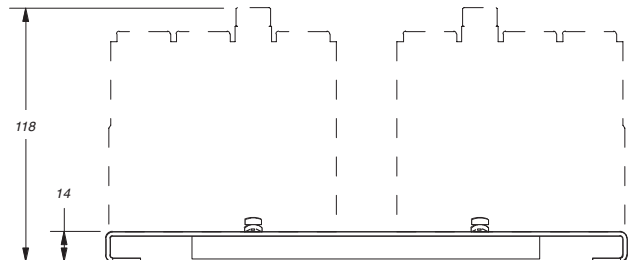
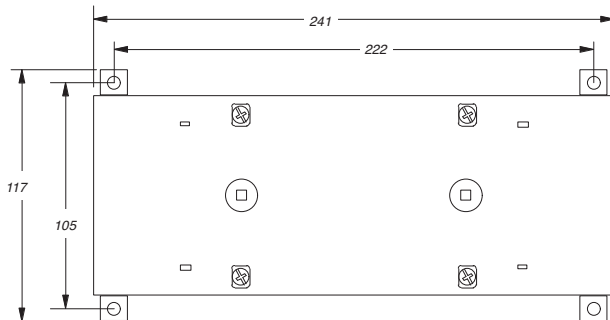




Approximate dimensions 30A Conversion mechanisms



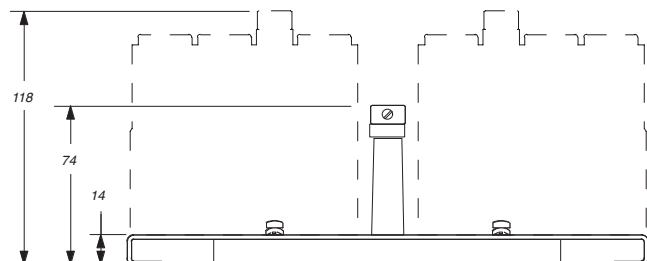
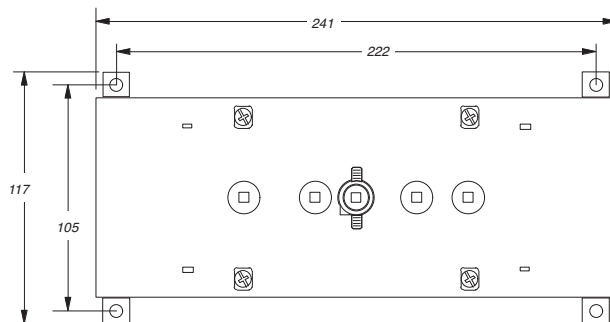
6 pole — OWP6DS1



For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

OWP6DS1 in combination with:	Minimum mm	Maximum mm
OS30__	140	N/A

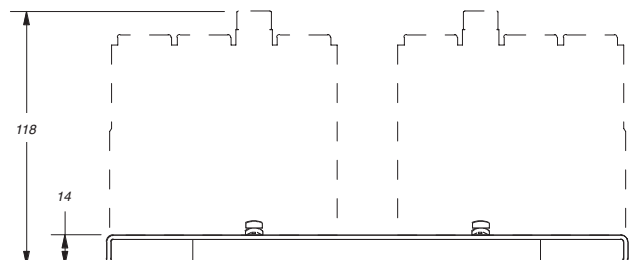
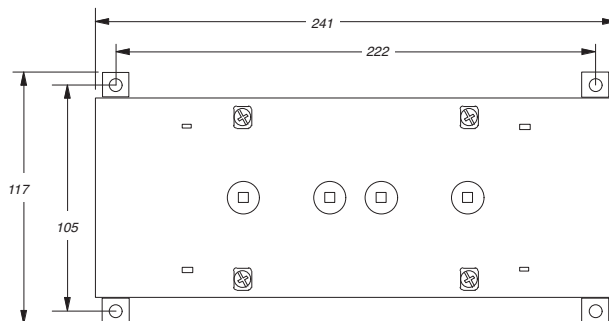
Transfer switch — OWC6DSH1



For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

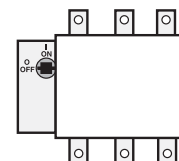
OWC6DSH1 in combination with:	Minimum mm	Maximum /mm
OS30__	140	N/A

Mechanical interlock — OWM6DS1



For installation of 6 or 8 pole mechanisms, the following minimum and maximum mounting dimensions are given below.

OWM6DS1 in combination with:	Minimum mm	Maximum mm
OS30__	140	N/A

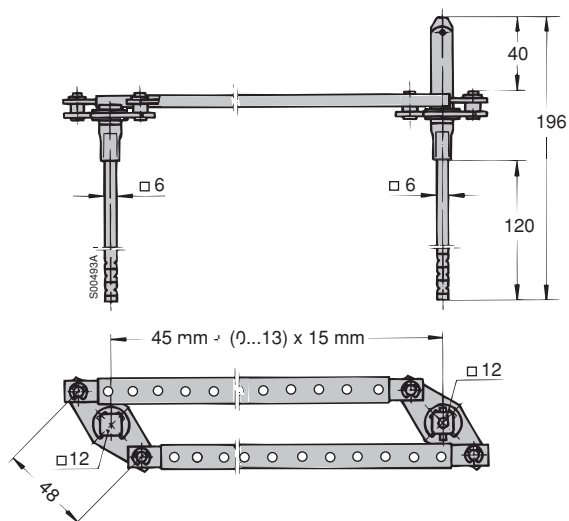


6 or 8 pole — OESA-ZW2

For installation of 6 or 8 pole and transfer mechanisms, the following minimum and maximum mounting dimensions are given below.

OESA-ZW2 in combination with:	Minimum mm	Maximum mm
OS60	175	275
OS100	175	275

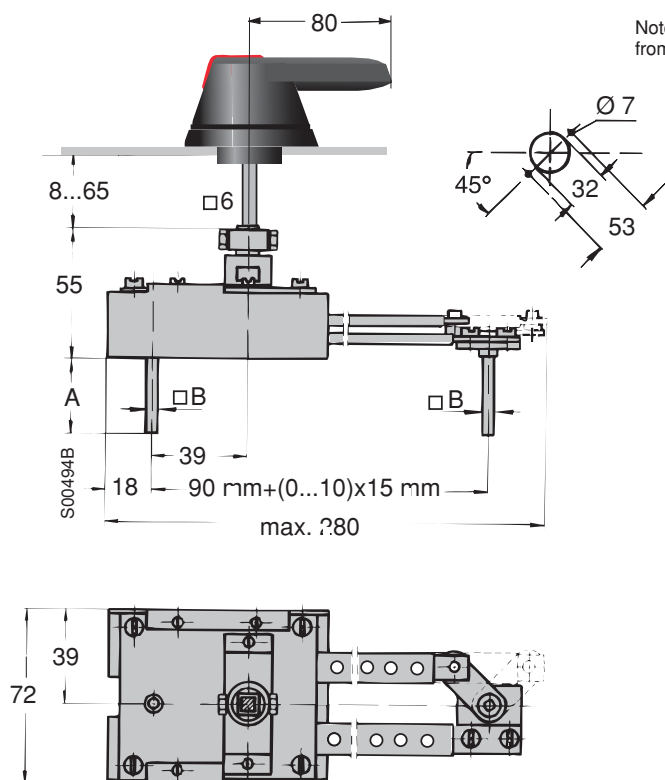
Note: Deeper enclosures will require a longer shaft, please select a 12mm shaft from page 2.25, and an OETL-ZX95 shaft extension coupler from page 2.21.

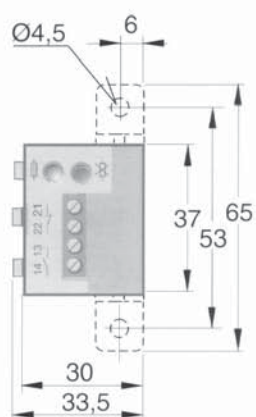
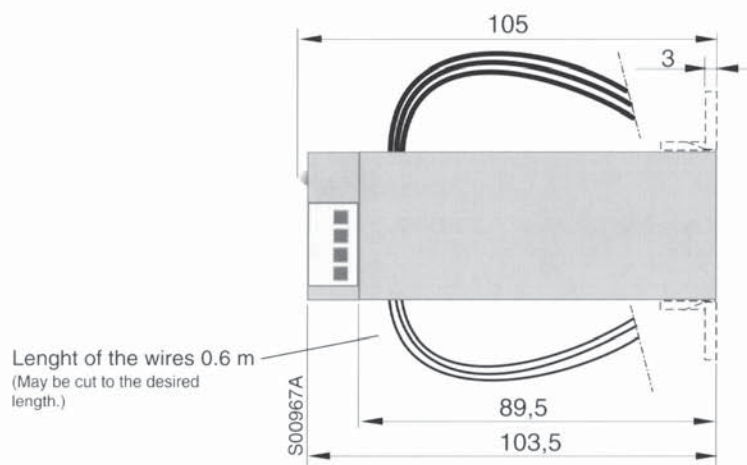
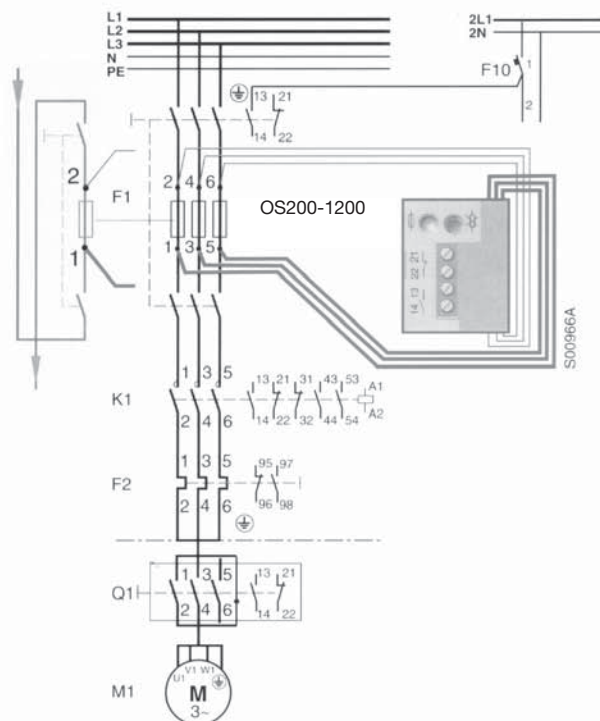
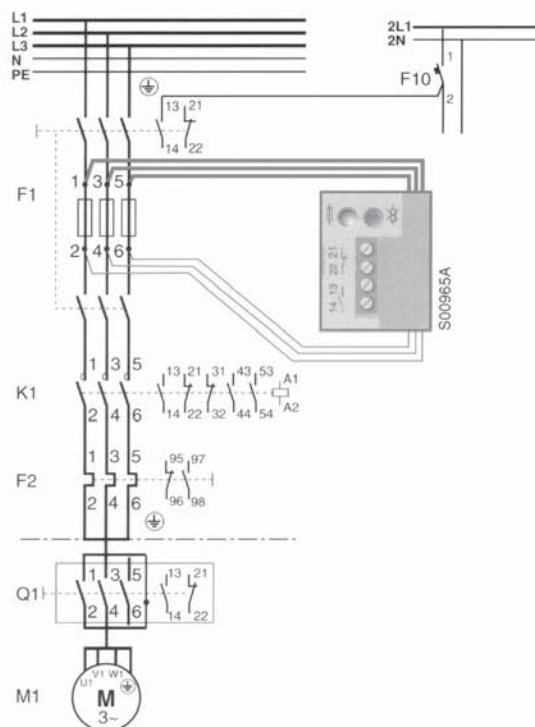
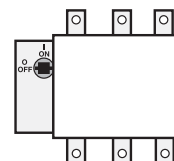


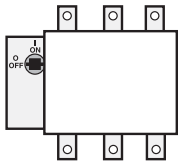
Transfer switch — OESA-ZW1

OESA-ZW1 in combination with:	Minimum mm	Maximum mm
OS60	200	336
OS100	210	336

Note: Deeper enclosures will require a longer shaft, please select a 6mm shaft from page 2.19.



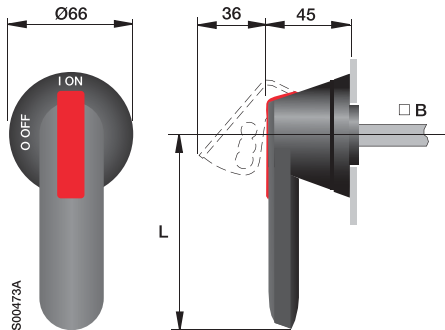




Approximate dimensions Handles

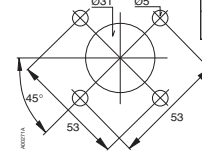
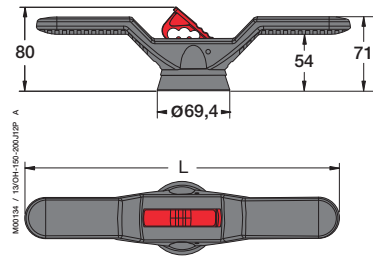
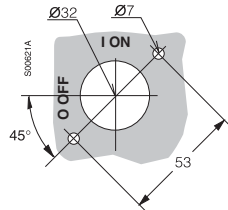


Plastic Handles:



Type	L lenght mm	B Shaft diameter
OH_45J6	46	6
OH_65J6	65	6
OH_80J6	80	6
OH_125J12	125	12
OH_145J12	145	12
OH_175J12	175	12
OH_275J12	275	12

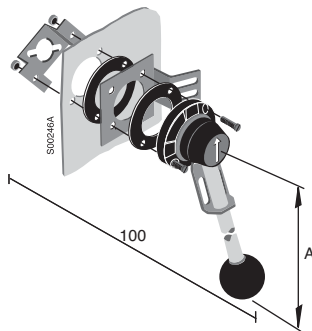
Door drilling for
OH_ handles:



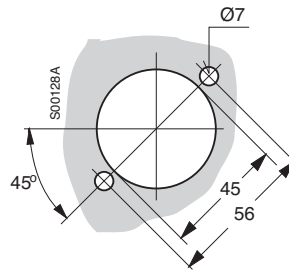
Type	L
OHB150J12P	300
OHB200J12P	400

Metallic Handles:

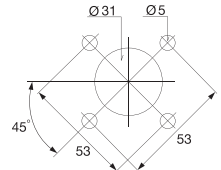
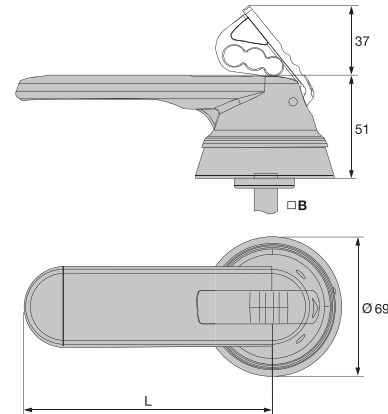
YASDA 7,8 (A=220)



Door drilling for YASDA

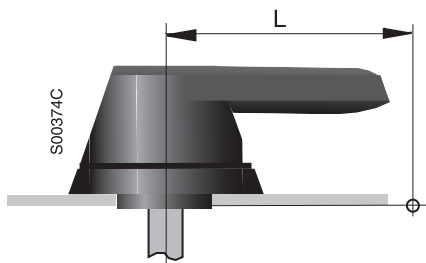


Stainless steel:



Handle type	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	65	125	175	275
□B	6	12	12	12

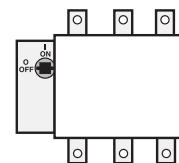
Minimum distance L between the hinge and the rotating shaft



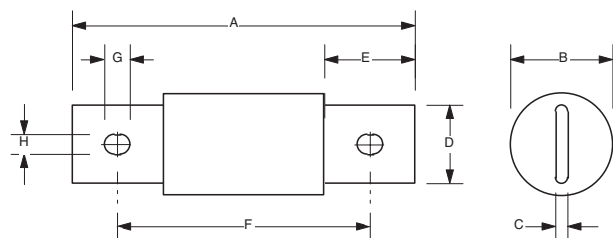
OS Sizes (A)	L (mm)	Suitable handles
30...60	60	OH_45J_, OH_65J_
60...100	80	OH_80J_
200...400	150	OH_125J12, OH_145J12
200...800	175	OH_175J12
200...800	275	OH_275J12
200...800	220	YASDA 7,8
1200	150	OHB150J12P



Approximate dimensions For Fuses

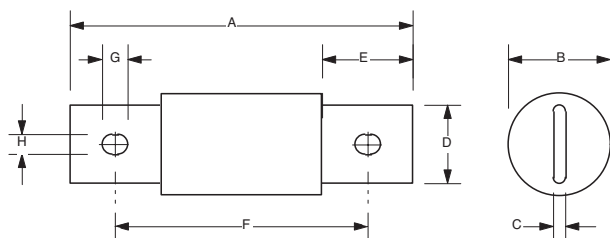


Class J (600V)



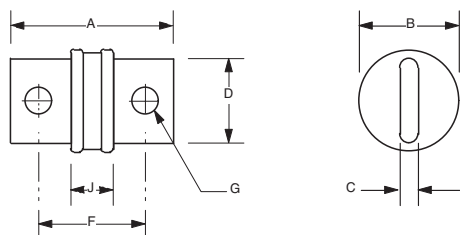
Ampere rating	A	B	C	D	E	F	G	H
1 - 30	2.25	.81	—	—	—	—	—	—
31 - 60	2.38	1.06	—	—	—	—	—	—
61 - 100	4.62	1.12	.12	.75	1	3.62	.38	.28
101 - 200	5.75	1.62	.19	1.12	1.38	4.38	.38	.28
201 - 400	7.12	2.12	.25	1.62	1.88	5.25	.53	.41
401 - 600	8.00	2.5	.38	2.00	2.12	6.00	.69	.53

Class L (600V)



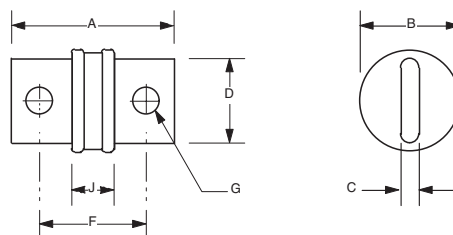
Ampere rating	A	B	C	D	E	F	G	H
200 - 600	8.62	2.00	.31	1.62	2.41	6.25	1.12	.62
601 - 800	8.62	2.50	.38	2.00	2.41	6.25	1.12	.62

Class T (300V)



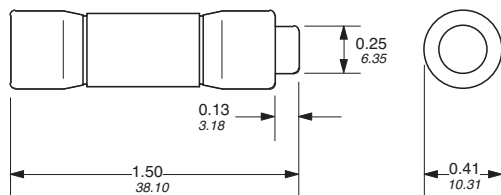
Ampere rating	A	B	C	D	F	G	J
1 - 30	.88	.41	—	—	—	—	—
31 - 60	.88	.56	—	—	—	—	—
61 - 100	2.16	.81	.12	.75	1	3.62	.38
101 - 200	2.45	1.06	.19	1.12	1.38	4.38	.38
201 - 400	2.75	1.33	.25	1.62	1.88	5.25	.53
401 - 600	3.06	1.62	.31	2.00	2.12	6.00	.69
601 - 800	3.38	2.08	.38	1.75	2.22	.55	.88

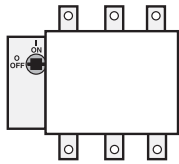
Class T (600V)



Ampere rating	A	B	C	D	F	G	J
1 - 30	1.50	.56	—	—	—	—	—
35 - 60	1.56	.81	—	—	—	—	—
70 - 100	2.95	—	.12	.75	2.36	.28	1.64
110 - 200	3.25	—	.19	.88	2.50	.34	1.66
225 - 400	3.62	—	.25	1.00	2.69	.41	1.64
450 - 600	3.98	—	.31	1.25	2.95	.48	1.78
601 - 800	4.37	—	.38	1.75	3.17	.55	1.88

Class CC (600V) — Rejection type

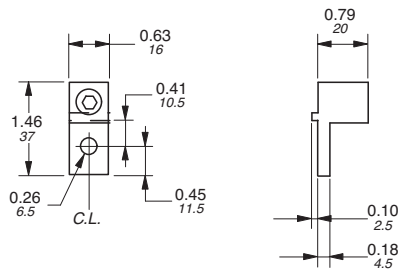




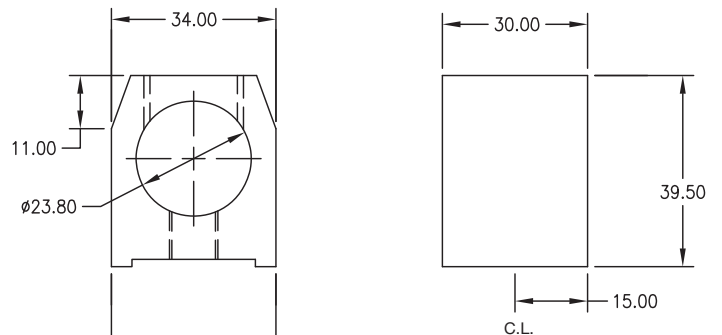
Approximate dimensions For Terminal lugs



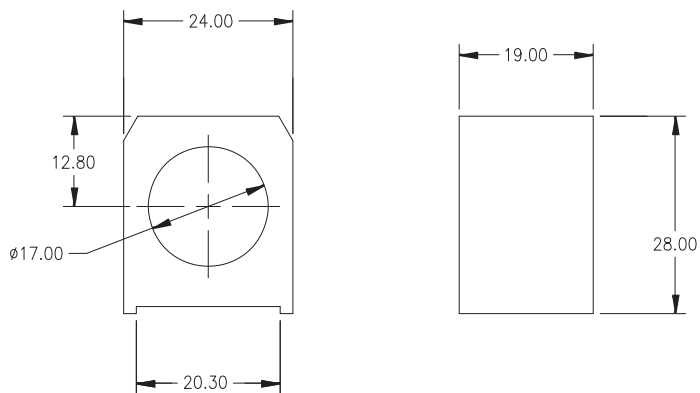
OZXA-24 — for use with 100A switches



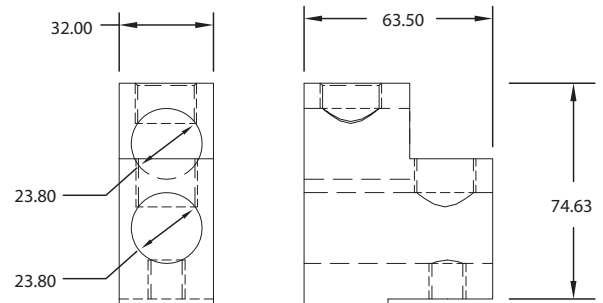
OZXA-400 — for use with 400A switches



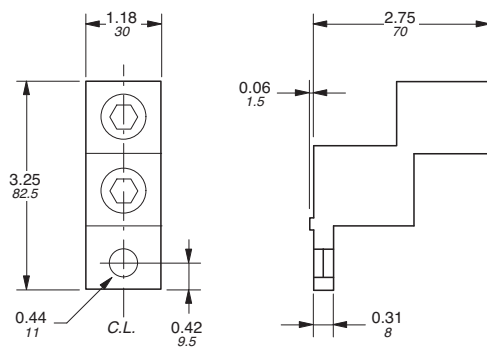
OZXA-200 — for use with 200A switches



OZXA-800 — for use with 800A switches



OZXA-33 — for use with 400A switches







SafeLine

Compact, heavy duty

Enclosed disconnect switches

16A – 1200A Non-fusible

30A – 1200A Fusible

SafeLine enclosed disconnect switches are designed to meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of ampere ratings, are CSA approved and EEMAC rated to satisfy rugged industrial environments.

Index

General information	3.1 – 3.3
Non-fusible	3.4 – 3.7
Fusible	3.8 – 3.10
Technical information & dimensions	3.11 – 3.14

NF 16 1 - 3P 11

Disconnect switch type

NF = Non-fusible
FJ = Fused Class J, (30A – 600A)
FL = Fused Class L, (800A)

Disconnect switch frame size

16	32	45	63
30	60	100	200
400	600	800	1200

Environmental rating

1 = Type 1
2 = Type 12
4 = Type 4
3 = Type 3R
X = Type 4X stainless steel

Accessories

10 = 1 N.O. auxiliary contact
01 = 1 N.C. auxiliary contact
11 = 1 N.O. & 1 N.C. auxiliary contacts
22 = 2 N.O. & 2 N.C. auxiliary contacts
N = Neutral terminal

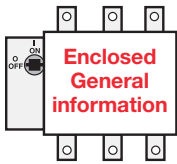
Poles or conversion mechanisms

2P = 2 poles pistol handle
3P = 3 poles pistol handle
4P = 4 poles pistol handle
6P = 6 poles pistol handle
3S = 3 pole selector handle
3T = 3 pole transfer



Padlockable

Handles can be padlocked in the "OFF" position with up to three padlocks: Additionally, the switch mechanism can be directly padlocked in the "OFF" position when the door is open. NOTE: Some handles can be ordered with the ability to padlock in both the "ON" & "OFF" positions, please consult your ABB sales office.



EEMAC environmental ratings for enclosed disconnect switches

Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows.

Refer to EEMAC Standards Publication for more information regarding applications, features and design tests.

Individual EEMAC product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

Definitions pertaining to nonhazardous locations



Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.



Type 4X

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



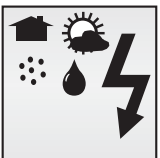
Type 3R

Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation.



Type 12

Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids.



Type 4

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.



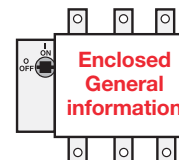
Type 13

Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant.

Legend

- Indoors
- Outdoors
- Water
- Dirt/dust
- Corrosion

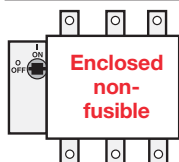
IP environmental ratings for enclosed disconnect switches



IP ratings

indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers. These numbers are defined as follows:

first number protection against solid objects	second number protection against liquids	third number protection against mechanical impacts
IP 0 no protection	IP 0 no protection	IP 0 no protection
1 protected against solid objects over 50mm (e.g. accidental touch by hands.)	1 protected against vertically falling rain or condensation	1 impact 0.225 joule 150g falling from 15 cm
2 protected against solid objects over 12 mm (e.g. fingers)	2 protected against direct sprays of water up to 15° from vertical	2 impact 0.375 joule 250g falling from 15 cm
3 protected against solid objects over 2.5 mm (tools & wires)	3 protected against sprays to 60° from vertical	3 impact 0.50 joule 250g falling from 20cm
4 protected against solid objects over 1mm (small tools & small wires)	4 protected against water sprayed from all directions	5 impact 2.00 joule 500g falling from 40 cm
5 protected against dust (no harmful deposit)	5 protected against low pressure jets of water from all directions	7 impact 6.00 joule 1.5kg falling from 40 cm
6 totally protected against dust	6 protected from strong jets of water (e.g. for use on ship decks)	9 impact 20.00 joule 5 kg falling from 40 cm
	7 protected against the effects of immersion between 15cm and 1m	



Enclosed manual motor controllers 16A – 80A



NF321-3P



EOT16U3P3-S



EOT16U4P3-P

3 Pole, 600V, 16A – 80A — CSA C22.2 No. 14 enclosed manual motor controllers

Metal Enclosure type

CSA C22.2 No. 14 amp rating		HP		1		12		4		4X Stainless	
		480V	600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	20	10	10	NF161-3S		NF162-3S		—		—	
	20	10	10	NF161-3P		NF162-3P		NF164-3P		NF16X-3P	
	40	20	25	NF321-3S		NF322-3S		—		—	
	40	20	25	NF321-3P		NF322-3P		NF324-3P		NF32X-3P	
	60	30	30	NF451-3S		NF452-3S		—		—	
	60	30	30	NF451-3P		NF452-3P		NF454-3P		NF45X-3P	
	80	40	40	NF631-3S		NF632-3S		—		—	
	80	40	40	NF631-3P		NF632-3P		NF634-3P		NF63X-3P	

Plastic Enclosure type

CSA C22.2 No. 14 amp rating		HP		3R, 12				4, 4X, 12			
		480V	600V	Catalog number	Aux. contact	Handle Type	List price	Catalog number	Aux. contact	Handle Type	List price
	20	10	10	EOT16U3P3-1S	1NO	Selector		EOT16U3P4-1P	1NO	Pistol	
	20	10	10	EOT16U3P3-S	—	Selector		EOT16U3P4-P	—	Pistol	
	40	20	25	EOT32U3P3-1S	1NO	Selector		EOT32U3P4-1P	1NO	Pistol	
	40	20	25	EOT32U3P3-S	—	Selector		EOT32U3P4-P	—	Pistol	
	60	30	30	EOT45U3P3-1S	1NO	Selector		EOT45U3P4-1P	1NO	Pistol	
	60	30	30	EOT45U3P3-S	—	Selector		EOT45U3P4-P	—	Pistol	
	80	40	40	—	—	—		EOT63U3P4-1P	1NO	Pistol	
	80	40	40	—	—	—		EOT63U3P4-P	—	Pistol	

Accessories for eOT16 to eOT63

Auxiliary contacts *Maximum number of auxiliary contacts 2NO + 1NC

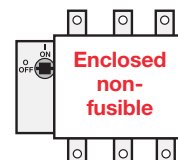
AC rated voltage	Description	AC amp rating	Catalog number	List price
600	NO, mounts on right side of the switch only	10	OA1G10	
600	NC, mounts on left side of the switch only	10	OA1G01	
4th poles for eOT16 and eOT32 * Only one additional pole per switch	4th pole	40	OTPS40FPN*	
600	4th pole, late-break / early-make function	40	OTPL40FP	
4th poles for eOT45 * and eOT63* Only one additional pole per switch	4th pole	80	OTPS80FP	
600	4th pole, late-break / early-make function	80	OTPL80FP	

*N1 = On the left side of the switch N2 = On the right side of the switch

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle by adding the "Y" suffix to the end of the catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

EXAMPLE: A red/yellow selector handle for an NF161-3S can be substituted for the black selector handle by using the "Y" suffix at the end, new catalog NF161-3SY.

Enclosed non-fusible disconnect switches 16A – 1200A



NF301-3P



NF1001-3P



NF2001-3P

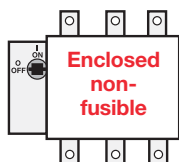
3 Pole, 600V, 30A – 2000A — CSA C22.2 No. 4 enclosed switches

		Metal Enclosure type							
		1			12			4	
CSA C22.2 No. 4 amp rating		HP 480V 600V	Catalog number	List price	Catalog number	List price	Catalog number	List price	4X Stainless
	30	20 30	NF301-3P		NF302-3P		NF304-3P		NF30X-3P
	60	40 40	NF601-3P		NF602-3P		NF604-3P		NF60X-3P
	100	50 50	NF1001-3P		NF1002-3P		NF1004-3P		NF100X-3P
	200	150 200	NF2001-3P		NF2002-3P		NF2004-3P		NF200X-3P
	400	250 350	NF4001-3P		NF4002-3P		NF4004-3P		NF400X-3P
	600	400 500	NF6001-3P		NF6002-3P		NF6004-3P		NF600X-3P
	800	500 500	NF8001-3P		NF8002-3P		NF8004-3P		NF800X-3P
	1200	– –	NF12001-3P		NF12002-3P		NF12004-3P		NF1200X-3P

C22.2 NO14 Amp rating	Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
	HP 480V 600V	Catalog number	Handle type	List price	Catalog number	Handle type	List price	Catalog number	Handle type
20	10 10	EOT16U3M1-P	Pistol		EOT16U3M3-P	Pistol		EOT16U3S4-P	Plastic Pistol
20	10 10	EOT16U3M1-S	Selector		EOT16U3M3-S	Selector		EOT16U3S4-M	SS Pistol
40	20 25	EOT32U3M1-P	Pistol		EOT32U3M3-P	Pistol		EOT32U3S4-P	Plastic Pistol
40	20 25	EOT32U3M1-S	Selector		EOT32U3M3-S	Selector		EOT32U3S4-M	SS Pistol
60	30 30	EOT45U3M1-P	Pistol		EOT45U3M3-P	Pistol		EOT45U3S4-P	Plastic Pistol
60	30 30	EOT45U3M1-S	Selector		EOT45U3M3-S	Selector		EOT45U3S4-M	SS Pistol
80	40 40	EOT63U3M1-P	Pistol		EOT63U3M3-P	Pistol		EOT63U3S4-P	Plastic Pistol
80	40 40	EOT63U3M1-S	Selector		EOT63U3M3-S	Selector		EOT63U3S4-M	SS Pistol

C22.2 NO4 Amp rating	Metal enclosure Nema 1			Metal enclosure Nema 3R, 12			Stainless steel Nema 4, 4X		
	HP 480V 600V	Catalog number	Handle type	List price	Catalog number	Handle type	List price	Catalog number	Handle type
30	20 30	EOT30U3M1-P	Pistol		EOT30U3M3-P	Pistol		EOT30U3S4-P	Plastic Pistol
60	40 40	EOT60U3M1-P	Pistol		EOT60U3M3-P	Pistol		EOT60U3S4-P	Plastic Pistol
100	50 50	EOT100U3M1-P	Pistol		EOT100U3M3-P	Pistol		EOT100U3S4-P	Plastic Pistol
30	20 30	EOT30U3M1-S	Selector					EOT30U3S4-M	SS Pistol
60	40 40	EOT60U3M1-S	Selector					EOT60U3S4-M	SS Pistol
100	50 50	EOT100U3M1-S	Selector					EOT100U3S4-M	SS Pistol

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle by adding the "Y" suffix to the end of the catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.



Enclosed non-fusible disconnect switches

30 - 1200A

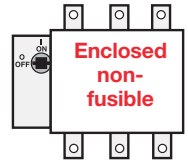
Other configurations

CSA General purpose amp rating	Option (Descriptions found on page 3.17)	Enclosure type							
		1		12		4		4XStainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
30	4 pole switch	NF301-4P		NF302-4P		NF304-4P		NF30X-4P	
	6 pole switch	NF301-6P		NF302-6P		NF304-6P		NF30X-6P	
	Transfer switch	NF301-3T		NF302-3T		NF304-3T		NF30X-3T	
60	4 pole switch	NF601-4P		NF602-4P		NF604-4P		NF60X-4P	
	6 pole switch	NF601-6P		NF602-6P		NF604-6P		NF60X-6P	
	Transfer switch	NF601-3T		NF602-3T		NF604-3T		NF60X-3T	
100	4 pole switch	NF1001-4P		NF1002-4P		NF1004-4P		NF100X-4P	
	6 pole switch	NF1001-6P		NF1002-6P		NF1004-6P		NF100X-6P	
	Transfer switch	NF1001-3T		NF1002-3T		NF1004-3T		NF100X-3T	
200	2 pole switch	NF2001-2P		NF2002-2P		NF2004-2P		NF200X-2P	
	4 pole switch	NF2001-4P		NF2002-4P		NF2004-4P		NF200X-4P	
	6 pole switch	NF2001-6P		NF2002-6P		NF2004-6P		NF200X-6P	
	Transfer switch	NF2001-3T		NF2002-3T		NF2004-3T		NF200X-3T	
400	2 pole switch	NF4001-2P		NF4002-2P		NF4004-2P		NF400X-2P	
	4 pole switch	NF4001-4P		NF4002-4P		NF4004-4P		NF400X-4P	
	6 pole switch	NF4001-6P		NF4002-6P		NF4004-6P		NF400X-6P	
	Transfer switch	NF4001-3T		NF4002-3T		NF4004-3T		NF400X-3T	
600	2 pole switch	NF6001-2P		NF6002-2P		NF6004-2P		NF600X-2P	
	4 pole switch	NF6001-4P		NF6002-4P		NF6004-4P		NF600X-4P	
	6 pole switch	NF6001-6P		NF6002-6P		NF6004-6P		NF600X-6P	
	Transfer switch	NF6001-3T		NF6002-3T		NF6004-3T		NF600X-3T	
800	2 pole switch	NF8001-2P		NF8002-2P		NF8004-2P		NF800X-2P	
	4 pole switch	NF8001-4P		NF8002-4P		NF8004-4P		NF800X-4P	
	6 pole switch	NF8001-6P		NF8002-6P		NF8004-6P		NF800X-6P	
	Transfer switch	NF8001-3T		NF8002-3T		NF8004-3T		NF800X-3T	
1200	2 pole switch	NF12001-2P		NF12002-2P		NF12004-2P		NF1200X-2P	
	4 pole switch	NF12001-4P		NF12002-4P		NF12004-4P		NF1200X-4P	
	6 pole switch	NF12001-6P		NF12002-6P		NF12004-6P		NF1200X-6P	
	Transfer switch	NF12001-3T		NF12002-3T		NF12004-3T		NF1200X-3T	

① Please consult ABB sales office for additional information.

② ⋈ = Three poles

Accessories for enclosed non-fusible disconnect switches



Auxiliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
16A – 100A	1 N.O. 1 N.C. 1 N.O. & 1 N.C.	add “10” suffix add “01” suffix add “11” suffix	
200A – 1200A	1 N.O. & 1 N.C. 2 N.O. & 2 N.C.	add “11” suffix add “22” suffix	

Accessories ^{①②}

For use on:	Description	Installation suffix	Installed list price adder
30A – 100A	Neutral block	N	
200 A	Neutral block	N	
400 A	Neutral block	N	
600 A	Neutral block	N	
800 A	Neutral block	N	
1200A	Neutral block	N	

Ground lugs

All enclosed switches are provided with a standard integral ground lug.

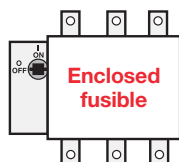
Switch size	Ground lug Wire size
16A – 100A	(2) #14
200A – 400A	#6 – 250 mcm
600A – 1200A	#2 – 600 mcm

Switch ratings, 20 – 1200 Amps, 600V

CSA General purpose amp rating	Maximum horsepower rating						Wire size for terminal lugs	For wire type	Approval
	Single phase		Three phase						
	120V	240V	200V – 208V	240V	480V	600V			
20	1	2	3	5	10	10	#18 – #8	Cu	CSA ①
40	2	5	10	10	20	25	#18 – #8	Cu	CSA ①
60	2	5	15	15	30	30	#14 – #1	Cu	CSA ①
80	2	5	20	20	40	40	#14 – #1	Cu	CSA ①
30	2	5	10	10	20	30	#14 – #4	Cu	CSA ②
60	3	7.5	20	20	40	40	#14 – #4	Cu	CSA ②
100	5	15	25	30	50	50	#8 – 1/0	Cu	CSA ②
200	—	—	60	75	150	200	#6 – 300 kcmil	Cu/Al	CSA ②
400	—	—	100	125	250	350	#2 – 600 kcmil	Cu/Al	CSA ②
600	—	—	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA ②
800	—	—	200	250	500	500	(2) #2 – 600 kcmil	Cu/Al	CSA ②
1200	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	CSA ②

① CSA C22.2 No. 14

② CSA C22.2 No. 4



Enclosed fusible disconnect switches 30A – 1200A



3 Pole^①, 600V, 30A - 1200A

CSA general purpose amp rating		Fuse type	Enclosure type							
			1		12		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	FJ301-3P		FJ302-3P		FJ304-3P		FJ30X-3P	
	60	J	FJ601-3P		FJ602-3P		FJ604-3P		FJ60X-3P	
	100	J	FJ1001-3P		FJ1002-3P		FJ1004-3P		FJ100X-3P	
	200	J	FJ2001-3P		FJ2002-3P		FJ2004-3P		FJ200X-3P	
	400	J	FJ4001-3P		FJ4002-3P		FJ4004-3P		FJ400X-3P	
	600	J	FJ6001-3P		FJ6002-3P		FJ6004-3P		FJ600X-3P	
	800	L	FL8001-3P		FL8002-3P		FL8004-3P		FL800X-3P	
	1200	L	FL12001-3P		FL12002-3P		FL12004-3P		FL1200X-3P	

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle if desired. Please add the "Y" handle suffix code at the end of catalog number. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

EXAMPLE: A red/yellow pistol handle for an FJ301-3P can be substituted for the black pistol handle by adding the "Y" suffix at the end, new catalog number: FJ301-3PY.

Switch ratings

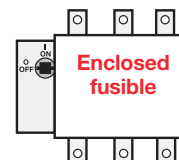
CSA general purpose amp rating	Maximum horsepower rating								Wire size for terminal lugs	For wire type	Approval ^①
	Single phase			Three phase							
	120V	200V	240V	200V	208V	240V	480V	600V			
30	2	3	5	5	7.5	7.5	15	20	#18 – #8	Cu	CSA
60	3	7.5	10	15	15	15	30	50	#14 – #4	Cu	CSA
100	5	10	15	25	25	30	60	75	#14 – 2/0	Cu/Al	CSA
200	—	—	—	50	50	60	125	150	#6 – 300 kcmil	Cu/Al	CSA
400	—	—	—	100	125	125	250	350	#2 – 600 kcmil	Cu/Al	CSA
600	—	—	—	150	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA
800	—	—	—	200	200	250	500	500	(2) #2 – 600 kcmil	Cu/Al	CSA
1200	—	—	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	CSA

^① Fusible switches are CSA approved to the CSA C22.2 No. 4 standard.

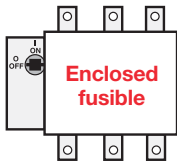
Enclosed fusible disconnect switches

30A – 1200A

Other configurations



CSA general purpose amp rating	Option	Enclosure type							
		1		12		4		4X Stainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
30	4 pole switch	FJ301-4P		FJ302-4P		FJ304-4P		FJ30X-4P	
	6 pole switch	FJ301-6P		FJ302-6P		FJ304-6P		FJ30X-6P	
60	4 pole switch	FJ601-4P		FJ602-4P		FJ604-4P		FJ60X-4P	
	6 pole switch	FJ601-6P		FJ602-6P		FJ604-6P		FJ60X-6P	
100	2 pole switch	FJ1001-2P		FJ1002-2P		FJ1004-2P		FJ100X-2P	
	4 pole switch	FJ1001-4P		FJ1002-4P		FJ1004-4P		FJ100X-4P	
	6 pole switch	FJ1001-6P		FJ1002-6P		FJ1004-6P		FJ100X-6P	
200	2 pole switch	FJ2001-2P		FJ2002-2P		FJ2004-2P		FJ200X-2P	
	4 pole switch	FJ2001-4P		FJ2002-4P		FJ2004-4P		FJ200X-4P	
	6 pole switch	FJ2001-6P		FJ2002-6P		FJ2004-6P		FJ200X-6P	
400	2 pole switch	FJ4001-2P		FJ4002-2P		FJ4004-2P		FJ400X-2P	
	4 pole switch	FJ4001-4P		FJ4002-4P		FJ4004-4P		FJ400X-4P	
	6 pole switch	FJ4001-6P		FJ4002-6P		FJ4004-6P		FJ400X-6P	
600	2 pole switch	FJ6001-2P		FJ6002-2P		FJ6004-2P		FJ600X-2P	
	4 pole switch	FJ6001-4P		FJ6002-4P		FJ6004-4P		FJ600X-4P	
	6 pole switch	FJ6001-6P		FJ6002-6P		FJ6004-6P		FJ600X-6P	
800	2 pole switch	FL8001-2P		FL8002-2P		FL8004-2P		FJ800X-2P	
	4 pole switch	FL8001-4P		FL8002-4P		FL8004-4P		FJ800X-4P	
	6 pole switch	FL8001-6P		FL8002-6P		FL8004-6P		FJ800X-6P	
1200	2 pole switch	FL12001-2P		FL12002-2P		FL12004-2P		FL1200X-2P	
	4 pole switch	FL12001-4P		FL12002-4P		FL12004-4P		FL1200X-4P	



Accessories

Enclosed fusible disconnect switches

Auxiliary contacts

For use on:	Contact configuration	Installation suffix	Installed list price adder
30A	1 N.O. + 1 N.C.	add "11" suffix	
	2 N.O. + 2 N.C.	add "22" suffix	
60A – 100A	1 N.O. + 1 N.C.	add "11" suffix	
	2 N.O. + 2 N.C.	add "22" suffix	
200A – 1200A	1 N.O. & 1 N.C.	add "11" suffix	
	2 N.O. & 2 N.C.	add "22" suffix	

Accessories

For use on:	Description	Installation suffix	Installed list price adder
30A – 100A	Neutral block	N	
200A	Neutral block	N	
400A	Neutral block	N	
600A	Neutral block	N	
800A	Neutral block	N	
1200A	Neutral block	N	

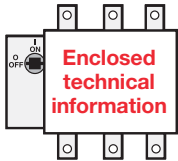
Ground lugs

All enclosed switches are provided with a standard integral ground lug.

Switch size	Ground lug wire size
30 – 100	(2) # 14 – 4
200	#14 – 2/0
400 – 800	#6 – 300 mcm
1200	#2 – 600 mcm

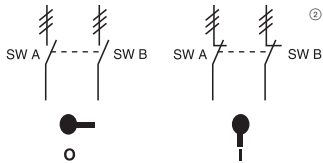
Other configuration descriptions

Enclosed disconnect switches



Conversion mechanisms

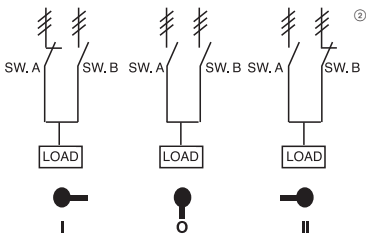
6 pole
6 pole mechanism allows two switches controlled by one handle to open or close simultaneously.



	POS. O	POS.I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

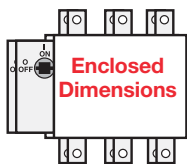
Transfer^①
Transfer mechanism manually transfers between two power sources using two switches and a center "OFF" position.



	POS. I	POS.O	POS.II
SW. A	X	O	O
SW. B	O	O	X

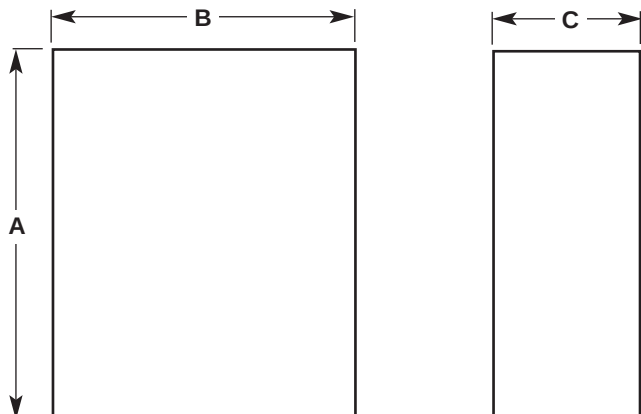
X = Closed
O = Open

^① Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.
^②  = Three poles



Safe Line Dimensions^{①②} 600V 16-1200A Amps

Dimensions for metal and stainless steel enclosures Type 1, 12, 4 and 4X



Non-fusible switches NF*-3P

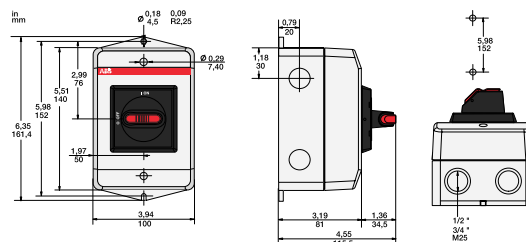
	A Height	B Width	C Depth
NF16, NF32,	6	5	4
NF30, NF45, NF60, NF63	10	5	4
NF100	16	6	4
NF200	24	14	8
NF400	36	24	10
NF600	36	24	10
NF800	48	24	12
NF1200	48	24	12

Fusible switches FJ*-3P

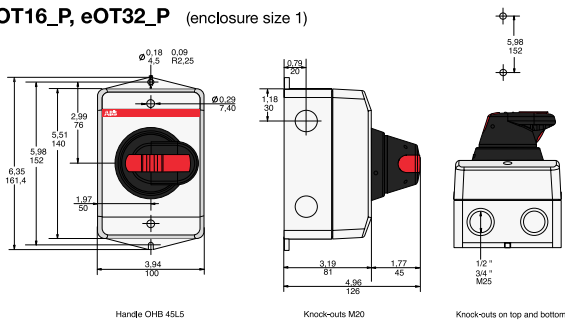
	A Height	B Width	C Depth
F30	10	8	6
F60	10	8	6
F100	16	10	6
F200	24	14	8
F400	36	24	10
F600	36	24	10
F800	48	24	12

Dimensions for eOT

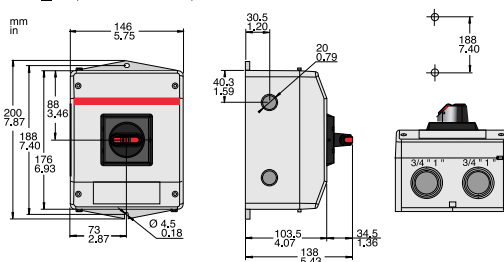
eOT16_S, eOT32_S (enclosure size 1)



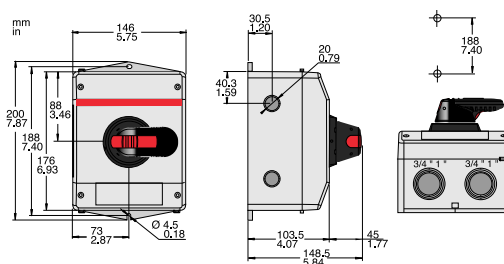
eOT16_P, eOT32_P (enclosure size 1)



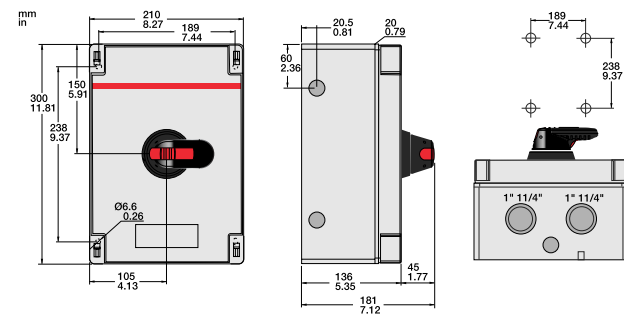
eOT45U_S (enclosure size 2)



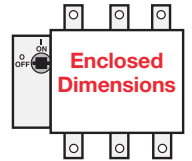
eOT45U_P (enclosure size 2)



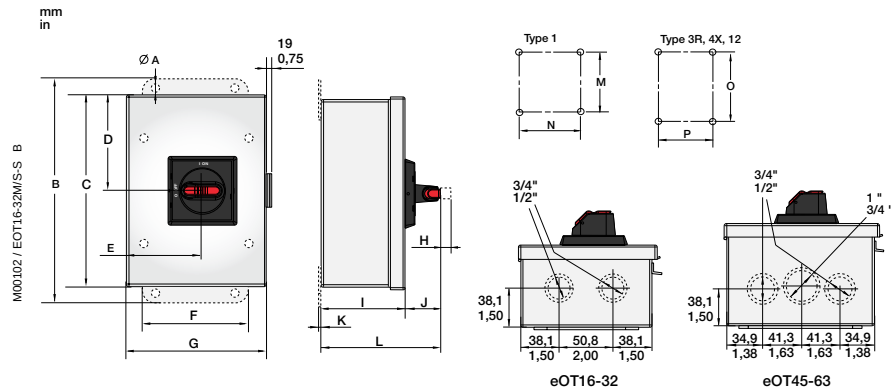
eOT63U_P



Dimension drawings Sheet steel and stainless steel enclosed manual motor controllers



eOT16/32_-S, eOT45-63_-S



Knock-outs in top and bottom of type 1 enclosures

eOT16-32

Dimension [mm/in]

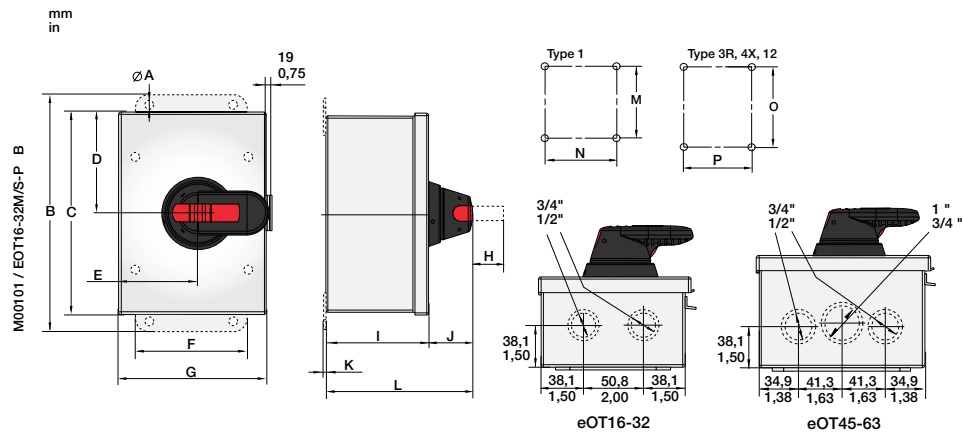
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
7,9/0,31	215,9/8,50	183,4/7,22	91,7/3,61	73,7/2,90	101,6/4,00	134,1/5,28	19,0/0,75	83,3/3,28	35,5/1,36	2,8/0,11	117,9/4,64	101,6/4,0	101,6/4,0	196,9/7,75	76,2/3,00

eOT45-63

Dimension [mm/in]

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
7,9/0,31	241,3/9,50	208,8/8,22	104,4/4,11	86,1/3,39	127,0/5,00	159,5/6,28	19,0/0,75	108,7/4,28	34,5/1,36	2,8/0,11	143,3/5,64	127,0/5,0	127,0/5,0	222,3/8,75	101,6/4,00

eOT16/32_-P/M, eOT45/63_-P/M



Knock-outs in top and bottom of type 1 enclosures

eOT16-32

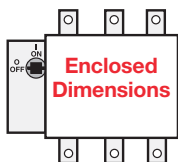
Dimension [mm/in]

Handle code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
-P	7,9/0,31	215,9/8,50	183,4/7,22	91,7/3,61	73,7/2,90	101,6/4,00	134,1/5,28	36,6/1,42	83,3/3,28	45,0/1,77	2,8/0,11	128,3/5,05	101,6/4,0	101,6/4,0	196,9/7,75	76,2/3,00
-M	7,9/0,31	215,9/8,50	183,4/7,22	91,7/3,61	73,7/2,90	101,6/4,00	134,1/5,28	36,6/1,42	83,3/3,28	52,0/2,05	2,8/0,11	135,5/5,33	101,6/4,0	101,6/4,0	196,9/7,75	76,2/3,00

eOT45-63

Dimension [mm/in]

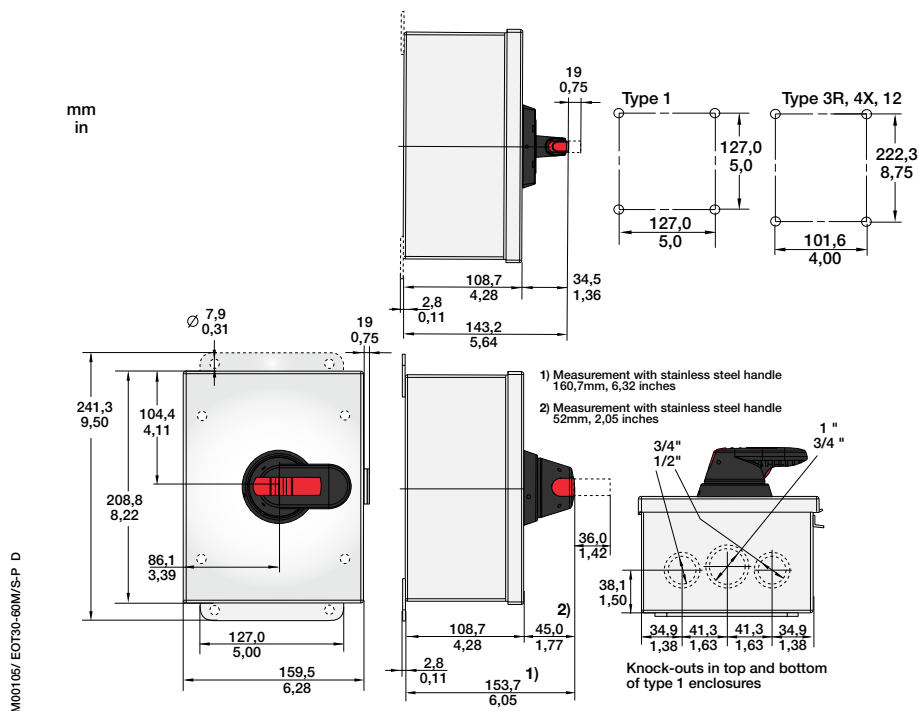
Handle code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
-P	7,9/0,31	241,3/9,50	208,8/8,22	104,4/4,11	86,1/3,39	127,0/5,00	159,5/6,28	36,0/1,42	108,7/4,28	45,0/1,77	2,8/0,11	153,7/6,05	127,0/5,0	127,0/5,0	222,3/8,75	101,6/4,00
-M	7,9/0,31	241,3/9,50	208,8/8,22	104,4/4,11	86,1/3,39	127,0/5,00	159,5/6,28	36,0/1,42	108,7/4,28	52,0/2,05	2,8/0,11	160,7/6,32	127,0/5,0	127,0/5,0	222,3/8,75	101,6/4,00



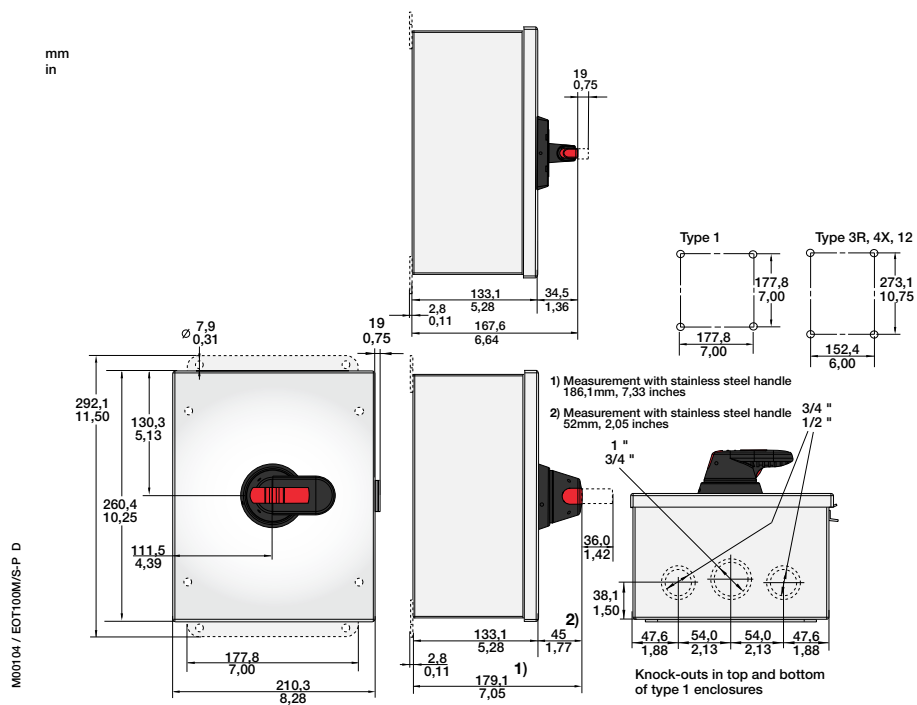
Dimension drawings

Sheet steel and stainless steel enclosed manual motor controllers

eOT30U3_, eOT60U3_



eOT100_





CamLine Rotary cam switches OM, ON and OL

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ROTARY CAM SWITCHES

Range OM, ON, OL

Sizes 10, 25, 40, 80, 125, 160 and 200 Amps

ABB's new OM, ON and OL rotary cam switches offer a complete range of cam switches for control, instrumentation and motor starting applications, maximizing the benefits and optimizing your use of assets. The standard cam switches provide you with a variety of functionalities for the most common mounting types and applications with minimum footprint area.

A focused standard range covering most applications

ON-OFF switches
Change-over switches
Multi-step switches

Volt-ammeter switches
Ammeter switches
Voltmeter switches

Bypass switches
Closed transition switches
UPS switches

Reversing switches
Pump-start switches
Stop-start switches
Ventilation switches

Binarycode switches

Standards

IEC/EN 60 947-1, -3
VDE 0660 Teil 107
UL508
CSA C22.2 No.14

► Captive plus-minus screws save installation time and the integrated screwdriver guides make the use of motorized screwdrivers easy and stable.



Quick and easy to install

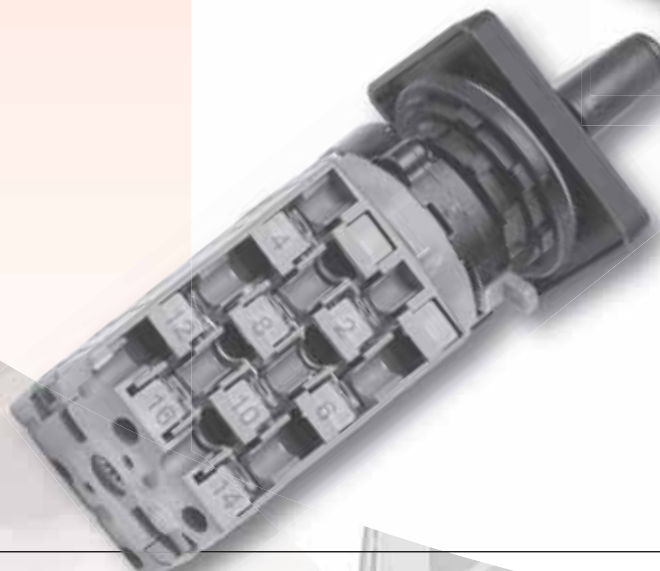
Captive plus-minus screws save installation time and the integrated screwdriver guides (available in sizes up to 160 Amps) make the use of motorized screwdrivers easy and stable. Lug terminals for connecting cable clamps and crimp lugs are available for the sizes from 125 Amps.

The double cam system shortens the multistep switch and enables the use of shallow enclosures. The sizes up to 40 Amps, including a black handle on a silver front plate, are suitable for snap on door mounting while the sizes from 80 to 200 Amps contain screw-mounted handles for door mounting.

► Self lifting terminal screws for fast cabling



◄ Complete delivery includes handle and front plate. Snap-on mounting of contact block with interlocking in sizes OM, ON and OL 40. Protected interconnections.





◀ Versatile selection of padlocking and interlocking solutions

Standard

CAM SWITCHES RANGE

Black handle and silver frontplate with standard text are included.

camLine

Cam switch size	
I _{th} / IEC 60947 [A]	
CSA C22.2 No.14 [A]	
Positions	
ON-OFF switches	
Rotating angle 90, 0-position: 9 o'clock	
Black handle	1 - 0
Key operated	1 - 0
Rotating angle 90, 0-position: 12 o'clock	
Black handle	1 - 0
Key operated	1 - 0
Change-over switches	
Rotating angle 60 - 0 - 60, with 0-position	
Black handle	1 - 0 - 2
Key operated	1 - 0 - 2
Key operated, with two sided spring return	1 _R - 0 - 2 _R
Rotating angle 60 - 60, without 0-position	1 - 2
With common center position and with overlapping contacts	1 - 1 + 2 - 2
Bypass switches	
Without overlapping, for 3 and 4-pole net	1 - 0 - Bypass
With overlapping, for 3 and 4-pole net	1 - Bypass
Multistep switches	
With 0-position	
2 - step switches	0-1-2
3- step switches	0-1-2-3
4- step switches	0-1-2-3-4
5- step switches	0-1-2-3-4-5
6- step switches	0-1-2-3-4-5-6
7, 8, 9, 10 and 11- step switches	0-1-2-3-4-5-6-7-8...-11
Without 0-position	
3- step switches	1-2-3
4- step switches	1-2-3-4
5- step switches	1-2-3-4-5
6- step switches	1-2-3-4-5-6
7, 8, 9, 10, 11 and 12- step switches	1-2-3-4-5-6-7-8...-12
Motor control switches	
Ventilation switches	A - 0 - 1/2 - 1/1
Reversing switches	1 - 0 - 2
Star-delta switches	0 - Y - Δ
Pole-change switches (Dahlander)	0 - A - AYY
Pumpstart switches	0 - 1
Stop switches	0 _R - Stop
Start switches	Stop - Start
	0 _R - Start
	0 - 1 _R - Start
	Start - 1 _R - 0 - 2 _R - Start
Volt-ammeter switches	
3 phases and 3 current transformers with common pole	0 - 1 - 2 - 3
Voltmeter switches	
4 positions, 3 phase - 3 wire, with 0-position	0, L1-L2, L2-L3, L3-L1
3 positions, 3 phase - 3 wire, without 0-position	L1-L2, L2-L3, L3-L1
7 positions, 3 phase to phase, 3 phase to neutral, without 0-position	L1-L3, L2-L3, L1-L2, L1-N, L2-N, L3-N
7 positions, 3 phase to phase, 3 phase to neutral, with 0-position	L1-L3, L2-L3, L1-L2, 0, L1-N, L2-N, L3-N
7 positions, 3 phase to phase voltages for 2 circuits, with 0-position	L1-L3, L2-L3, L1-L2, 0, L1-L3, L2-L3, L1-L2
Ammeter switches	
For 3 current transformer circuits, with 0-position	0 - 1 - 2 - 3
Binarycode switches	
	0-1-2-3-4-5-6-7...-9...-11



Door mounted

DIN rail mounted

OM	ON	OL40	OL80	OL125	OL160	OL200	ON M
10	25	45	115	150	175	280	25
10	25	40	80	125	160	200	25
1, 2, 3, 4, 5 and 6- pole 1 and 3- pole			1, 2, 3 and 4- pole -			1, 2, 3 and 6- pole -	
1, 2, 3, 4, 5 and 6- pole 1 and 3- pole			1, 2, 3 and 4- pole -			1, 2, 3 and 6- pole -	
1, 2, 3 and 4- pole 1 and 3- pole			1, 2, 3 and 4- pole -			1, 2, 3 and 4- pole -	
1, 2 and 3- pole			-			1- pole	
1, 2, 3 and 4- pole			-			1, 2, 3 and 4- pole	
3 and 4- pole			3 and 4- pole			-	
-							
-			3 / 6- pole, 4 / 8- pole			-	
-			4 / 6- pole, 4 / 8- pole			-	
1, 2, 3 and 4- pole			-			1- pole	
1, 2, 3 and 4- pole			-			1- pole	
1, 2 and 3- pole			-			-	
1 and 2- pole			-			-	
-			-			-	
1, 2 and 3- pole			-			-	
1- pole			-			-	
1, 2, 3 and 4- pole			1- pole			1- pole	
1, 2 and 3- pole			-			-	
1 and 2- pole			-			-	
-			-			-	
1, 2 and 3- pole			-			-	
1- pole			-			-	
2- pole			-			1- pole	
-			-			-	
3- pole			-			-	
-			3- pole			-	
-			3- pole			-	
1- pole			-			1- pole	
2- pole			-			-	
-			-			-	
1- pole			-			-	
1- pole			-			1- pole	
-			-			1- pole	
3- pole			-			-	
3- pole			-			3- pole	
3- pole			-			3- pole	
3- pole			-			3- pole	
3- pole			-			3- pole	
4- pole			-			-	
1- pole	1 and 2- pole	-	-			1- pole	
-	1 and 2- pole	-	-			-	

ACCESSORIES

for standard cam switches

CamLine



► Handles

Handles

Snap on handle with front plate without engraving

Size 30x30, black, grey, red, red-yellow

Size 48x48, black, grey, red, red-yellow

Size 64x64, black, grey, red, red-yellow

Screw mounting handle with front plate without engraving

Size 90x90, black, grey, red, red-yellow

Size 130x130, black, grey, red, red-yellow

Snap-on handles with round escutcheon plate

Black

Black, nose-type

Screw mounting pistol type handle

Black or red

Screw mounting double lever handle

Black or red

Padlockable handle knob, without front plate

Black, red-yellow

Round padlockable handles for screw mounting on door

Size 64x64, black, red-yellow

Size 90x90, black, red-yellow

Front plates

Front plate, without engraving

Size 30x30, silver, yellow

Size 48x48, silver, yellow

Size 64x64, silver, yellow

Size 90x90, silver, yellow

Size 130x130, silver, yellow

Size H=45mm, W=54mm, grey

Additional lettering plate

Without engraving

Size 30x30, black or grey frame

Size 48x48, black or grey frame

Size 64x64, black or grey frame

Other accessories

Front ring

Shaft sealing

Spare key

Protective rear cover

Nut spanner

Adaptor ring

Base mounting kit



► Front plates



► Additional lettering plate



Door mounted

DIN-rail mounted

OM	ON	OL40	OL80...OL160	OL200	ON_M
x					
	x	x			
	x	x			
			x		
				x	
x	x	x			
x					
			x	x	
				x	
	x	x			x
	x	x			
			x		
x					
	x	x			
			x		
				x	
					x
x					
	x	x			
	x	x			
x	x	x			
	x		x		
x	x				
	x		x		
x	x				
	x				



► Front ring



► Spare key



► Protective rear cover



► Nut spanner



► Adaptor ring
22.5/30.5 mm

Special CAM SWITCHES

To be specified by the Camweb
configuration tool

a.salesconfigurator.com

camline

Mounting

Door mounted

Snap-on mounted handle

Padlockable

Round, padlockable

Square, padlockable

Screw mounted handle

Round, padlockable

Square, padlockable

Round front ring

Key operated handle

Cylinder lock

Push button lock

Pistol type handle

Double lever handle

Base mounted

Snap-on mounted handle

Padlockable

Screw mounted handle

Door clutch

Type of contacts

Normal Number of contacts

Double gang (Tandem) Number of contacts

Triple gang Number of contacts

Long shaft Number of contacts

Connections

Standard box (tunnel) terminals

Fast on clips

Double fast on clips

Lug terminals

Other features

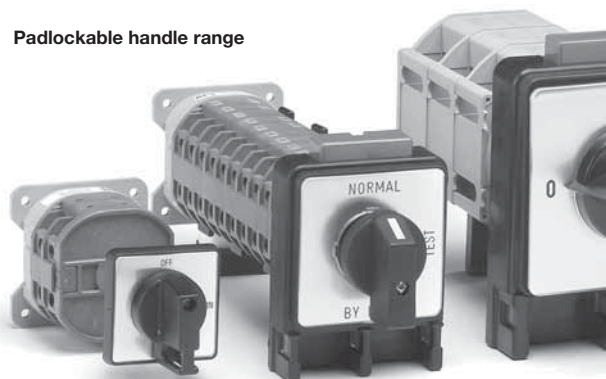
Spring return function

Metallic camshaft

Gold contacts

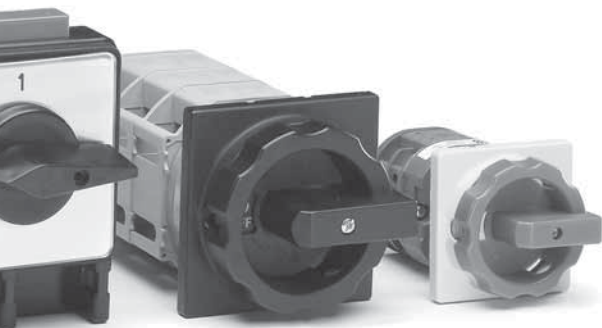
Enclosed cam switches

Padlockable handle range





Door mounted					DIN-rail mounted
OM	ON	OL40	OL80...OL160	OL200	ON_M
x	x	x			
	x	x			
	x	x			
	x	x			
x	x	x	x	x	
			x	x	
			x	x	
	x	x			
x	x				
	x	x	x	x	
	x	x	x	x	
			x	x	
				x	
					x
	x	x			
	x	x			
			x	x	
	x	x	x		
max. 16	max. 20 max. 40 max. 60 max. 60	max. 20 max. 40 max. 60 max. 60			max. 6
x	x	x	x		x
x	x	x			
x	x	x			
			x	x	
x	x	x	x	x	x
	x	x			
x	x	x	x	x	x
	x				



SOLUTIONS

CamLine

Standard handles

Cam switches up to the size OL40 are delivered with snap-on handles for 22.5 mm door drilling, while the larger handle sizes are screw mounted (4-hole mounting). Screw mounted handles are available for all sizes and they can be specified by the Camweb configurator. Protection degree IP65, NEMA 4X.



Special handles for large switches

Pistol type handles and double lever handles are available for the sizes OL80...OL200. Protection degree is the same as for the front plate.



Padlockable handles

Padlockable handle knob

Optional handle for replacing the standard knob handle. Two padlocks with bail diameter of 6 mm or three padlocks with 4 mm bail diameter. Padlocking is possible every 90 degrees at 9, 12, 3 and 6 o'clock positions. Available for the sizes ON...OL40 (6 mm shaft diameter). Suitable for both snap-on and screw mounted handles. Protection degree IP65, NEMA 4X.



Round padlockable handle

Optional handle with two locking positions and 90 degrees movement only. Locking positions: 9 o'clock (O-OFF) and 12 o'clock (1- ON) or when the switch is rotated 90 degrees: 12 o'clock (O-OFF) and 3 o'clock (1-ON). For maximum three padlocks with max. 8 mm bail diameter. Available for sizes ON...OL160 as a snap-on or screw mounted version. Protection degree IP65, NEMA 4X.



Square padlockable handle

The programmable square handle, with one to four possible padlocking positions at certain angles, can be specified by the Camweb configurator. For maximum three padlocks with max. 8 mm bail diameter for sizes ON...OL40 or 8 mm for sizes OL80...200, screw mounted. Protection degree IP65, NEMA 4X.



Interlocking solutions

Key operated cam switches

Key switches are operated by the key, which functions as the operating handle. Special key codes are available on request. The standard key removal is possible at 12 o'clock, or in other positions, as described in the ordering details. The delivery contains two keys. In non-standard switches the key removal positions can be specified by the Camweb configurator. The key switch is available for the sizes OM...OL40, also enclosed switches. Protection degree IP54, NEMA 1.



Key interlocked cam switches with cylinder interlock

The operation of the cam switch is interlocked with the cylinder lock below the switch. The interlocking is possible in one to four selected positions by the key. The possible interlocking positions are specified by the Camweb configurator. The delivery contains two keys. Available for the sizes ON...OL160. Protection degree IP65, NEMA 4X.



Push button interlock

The push button releases the cam switch in one or several positions specified by the Camweb configurator. Auxiliary contacts are possible to operate with the push button. Protection degree IP65, NEMA 4X.



Base mounted switches

Modular cam switches

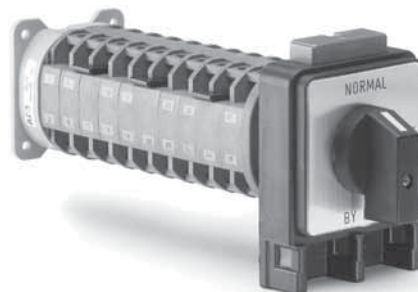
Modular cam switches are available for up to 6 contacts according to the DIN-rail component standard. Clip-on mounting on DIN-rail. Protection degree IP20.



Base mounted cam switches

Base mounted cam switches are recommended to be specified for the desired shaft length or panel depth by the Camweb configurator. The shaft can be specified with the door clutch, which locks the door in the ON-position. Mounting kit type ONZ74 for door-mounted ON cam switches can be ordered as optional extra with shaft length 200 mm and DIN rail

Base mounted cam switches with direct mounted handles are available as special cam switches. The standard or padlockable handle is fixed on the cam switch.



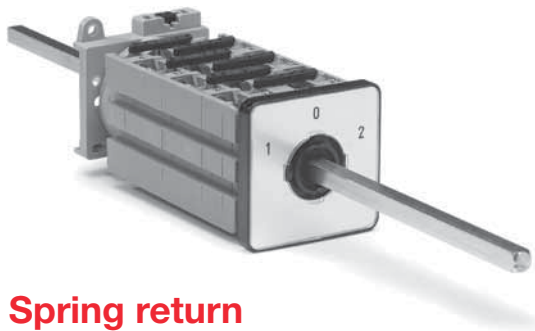
Cam switches with high number of contacts

Double and triple gang switches

Double and triple gang switches (2 x 20 or 3 x 20 contacts) are specified by the Camweb configurator for door and base mounting with the handle size from 64 mm. Padlocking with square padlockable handles. Screw mounting.

Metallic shaft

ON cam switches are available with metallic shafts allowing max. 60 auxiliary contacts to be assembled in one long cam switch. Specification by the Camweb configurator.



Spring return

The spring return movement is always 30 degrees. The next step of the static position of spring return needs to be 90 degrees if not symmetrical design.



Round front ring

The round front ring replaces the square escutcheon plate. The assembly do not include position indications. The round front ring is available as special switch configured by the Camweb.



Terminations

Quick connects

Cam switches are available with quick connects 6.3 x 0.8 or double FASTON-quick connects 2 x 3.15. Specification by the Camweb configurator.



Lug terminals

The OL80...160 cam switches are normally provided with protected box type termination. Lug terminals for cable lugs are specified by the Camweb configurator.



Gold contacts

The OM and ON switches can be supplied with gold contacts. Specification recommended by the Camweb configurator.



CamLine

Rotary cam switches

Technical data

Technical data

Ratings according to UL and CSA

			Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Maximum operating voltage	CSA/UL	V		300	600	600	600	600	600	600
Ampere rating	General use	CSA/UL	A	10	25	40	80	125	170	200
Rated power	3-phase	240V	HP	1	2	10	30	40	40	60
		480V	HP	-	5	20	30	40	50	120
		600V	HP	-	5	20	30	40	50	120
	1-phase	120V	HP	0.33	1	2	7.5	10	10	-
		240V	HP	1	1	3	15	20	20	-
Short circuit ratings										
Maximum prospective fault current		kA		1	10	10	10	10	10	10
Maximum fuse size		A		16	35(RK5)	50(RK5)	100(RK5)	150(RK5)	200(RK5)	400(RK5)
Switching frequency		cycles/hour		150	150	150	150	150	150	150
Connecting screws		M		2.5	3.5	5	5	5	5	10
Max cable cross section		mm ²		1.5	4	6	70	70	70	150
		AWG		14	14-12	14-8	12-2/0	12-2/0	12-2/0	kcmil 300
Min switching current AC/DC		mA		5	5	5	5	5	5	5
Minimum voltage AC/DC		V		5	5	5	5	5	5	5



CamLine

Rotary cam switches

Technical data

Technical data

Ratings according to IEC60947

		Size	OM	ON	OL40	OL80	OL125	OL160	OL200
Impulse withstand voltage	U _{imp}	kV	-	-	6	6	6	6	6
Rated operational voltage	U _e	V	500	690	690	690	690	690	690
Rated insulation voltage		V	250	400	690	690	690	690	690
Rated thermal current I _{th}		A	10	25	45	115	150	175	315
Rated conditional short circuit current	I _p (r.m.s.)	kA	1	10	10	10	10	10	10
Max back-up fuse link		A	10	25	40	125	200	200	250
Rated short time withstand current (r.m.s)	3s	A		100	360	800	1280	1280	1600
	10s	A		60	200	420	700	700	1000
	30s	A		32	120	260	400	400	600
	60s	A		30	80	160	280	280	400
Rated operational current	I _e	A	10	25	45	115	150	160	250
	AC1 400V	A	10	25	45	115	150	170	250
	AC21 400V	A	10	25	45	115	150	170	250
	AC11 220-240V	A	2.5	5.5	14	30	45	45	80
	380-440V	A	-	3.5	6.0	30	45	45	80
	500V	A	-	4.5	7.0	28	40	40	70
	AC22 220-500V	A	10	20	40	100	150	170	250
	660-690V	A	-	20	40	80	100	100	125
Rated operational current	1/2/3 (contact in series)								
Time constant 0...1ms	DC21 24/48/72	A	10	20	40	115	130	150	250
	40/80/120	A	6	16	32	100	115	130	200
	60/120/180	A	2.5	4.2	7.5	11	15	17	23
	110/220/330	A	0.7	1	1.7	-	-	-	-
	220/440/660	A	0.3	0.37	0.48	-	-	-	-
	440/660	A	-	0.22	0.25	-	-	-	-
Rated operational current	1/2/3 (contact in series)								
Time constant 1...50 ms	DC22 24/48/72	A	6	10	32	100	115	130	200
	30/60/90	A	3	4.5	11	33	36	40	50
	40/80/120	A	1	1.7	4	6	7	7.8	8.5
	60/120/180	A	0.7	0.8	1.5	1.8	2	2.2	-
	110/220/330	A	0.3	0.4	0.6	-	-	-	-
Rated operational power									
AC23 3 ph.	220-240V	kW	1.8	2.6	7.5	30	37	37	56
	380-440V	kW	3	7.5	15	45	75	75	75
	500V	kW	-	4.8	15	55	75	90	85
	660-690V	kW	-	4.8	15	45	50	55	90
AC23 1 ph.	110V	kW	0.37	0.5	2.5	5.5	9	11	14
	220-240V	kW	0.75	0.9	4	15	20	22	30
	400V	kW	1.1	1.5	7.5	22	35	37	45
Rated operational power									
AC2 3 ph.	220-240V	kW	2.5	3.5	11	30	35	37	70
	380-440V	kW	-	6	18.5	45	50	55	95
	500V	kW	-	6	18.5	55	65	75	103
	660-690V	kW	-	6	18.5	55	65	55	110



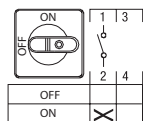
CamLine

Rotary cam switches

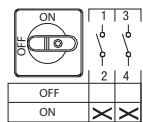
Ordering details

ON - OFF switches

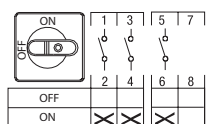
Black handle and front plate with position indication are included.



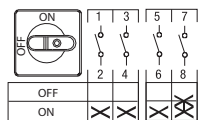
O_A1_



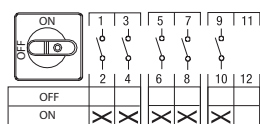
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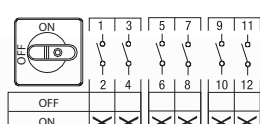
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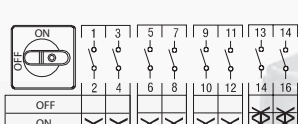
O_A4_



O_A5_



O_A6_



O_A8_

Function	Number of poles	Rated thermal current [A]	Catalogue number	List price
Step angle 90°, O-position: 9 o'clock				
Door mounted				
OFF - ON	1	10	OMA1PBA	
	2	10	OMA2PBA	
	3	10	OMA3PBA	
	4	10	OMA4PBA	
	5	10	OMA5PBA	
	6	10	OMA6PBA	
OFF - ON	1	25	ONA1PBA	
	2	25	ONA2PBA	
	3	25	ONA3PBA	
	4	25	ONA4PBA	
	5	25	ONA5PBA	
	6	25	ONA6PBA	
	8	25	ONA8PBA	
OFF - ON	1	40	OL40A1PBA	
	2	40	OL40A2PBA	
	3	40	OL40A3PBA	
	4 ¹⁾	40	OL40A4PBA	
	6	40	OL40A6PBA	
	8 ²⁾	40	OL40A8PBA	
O - I	1	80	OL80A1RB	
	2	80	OL80A2RB	
	3	80	OL80A3RB	
	4	80	OL80A4RB	
	6	80	OL80A6RB	
	8	80	OL80A8RB	
O - I	1	125	OL125A1RB	
	2	125	OL125A2RB	
	3	125	OL125A3RB	
	4	125	OL125A4RB	
	6	125	OL125A6RB	
	8	125	OL125A8RB	
O - I	1	160	OL160A1RB	
	2	160	OL160A2RB	
	3	160	OL160A3RB	
	4	160	OL160A4RB	
	6	160	OL160A6RB	
	8	160	OL160A8RB	
O - I	1	200	OL200A1RB	
	2	200	OL200A2RB	
	3	200	OL200A3RB	
	4	200	OL200A4RB	
	6	200	OL200A6RB	
	8	200	OL200A8RB	
DIN-rail mounted				
OFF - ON	1	25	ONA1MA	
	2	25	ONA2MA	
	3	25	ONA3MA	
	6	25	ONA6MA	
Key operated, withdrawable in both positions, step angle 90°, O-position: 9 o'clock				
Door mounted				
OFF - ON	1	10	OMA1KBA	
	3	10	OMA3KBA	
OFF - ON	1	25	ONA1KBA	
	2	25	ONA2KBA	
	3	25	ONA3KBA	
OFF - ON	1	40	OL40A1KBA	
	2	40	OL40A2KBA	
	3	40	OL40A3KBA	
	4	40	OL40A4KBA	

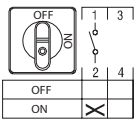
¹⁾ 4th pole early make, late break in A4_ and A8_ types
²⁾ 7th and 8th pole early make, late break



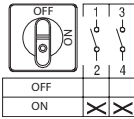
CamLine

Rotary cam switches

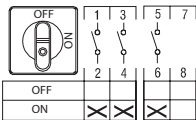
Ordering details



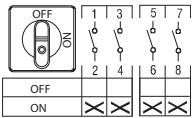
O_A01_



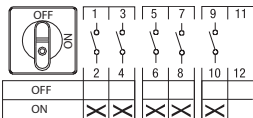
O_A02_



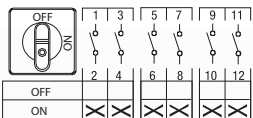
O_A03_



O_A04_



O_A05_



O_A06_

ON - OFF switches

Black handle and front plate with position indication are included.
The type and the ordering number are for one piece.

Function	Number of poles	Rated current [A]	Catalogue number	List price
Step angle 90°, O-position: 12 o'clock				
Door mounted				
OFF - ON	1	10	OMA01PBA	
	2	10	OMA02PBA	
	3	10	OMA03PBA	
	4	10	OMA04PBA	
	5	10	OMA05PBA	
	6	10	OMA06PBA	
OFF - ON	1	25	ONA01PBA	
	2	25	ONA02PBA	
	3	25	ONA03PBA	
	4 ¹⁾	25	ONA04PBA	
	5	25	ONA05PBA	
	6	25	ONA06PBA	
DIN-rail mounted				
OFF - ON	1	25	ONA01MA	
	2	25	ONA02MA	
	3	25	ONA03MA	
	6	25	ONA06MA	
Key operated, withdrawable in both positions, step angle 90°, O-position: 12 o'clock				
Door mounted				
OFF - ON	1	10	OMA01KBA	
	3	10	OMA03KBA	
OFF - ON	1	25	ONA01KBA	
	3	25	ONA03KBA	

¹⁾ 4th pole with simultaneous contacts



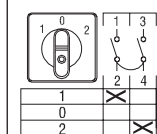
CamLine

Rotary cam switches

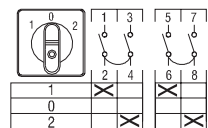
Ordering details

Change-over switches

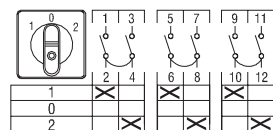
Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount, KB: key operated, withdrawable in all positions.



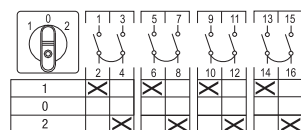
O_U1_



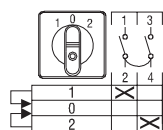
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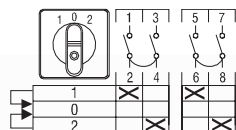
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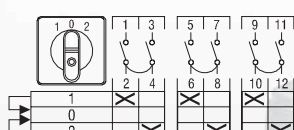
O_U4_



O_URR1_



O_URR2_



O_URR3_

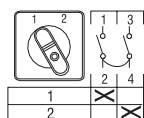
Function	Number of poles	Rated current [A]	Catalogue number	List price
Step angle 60°, with 0-position				
Door mounted				
1 - 0 - 2	1	10	OMU1PB	
	2	10	OMU2PB	
	3	10	OMU3PB	
	4	10	OMU4PB	
1 - 0 - 2	1	25	ONU1PB	
	2	25	ONU2PB	
	3	25	ONU3PB	
	4	25	ONU4PB	
	5	25	ONU5PB	
	6	25	ONU6PB	
1 - 0 - 2	1	40	OL40U1PB	
	2	40	OL40U2PB	
	3	40	OL40U3PB	
	4	40	OL40U4PB	
	5	40	OL40U5PB	
	6	40	OL40U6PB	
1 - 0 - 2	1	80	OL80U1RB	
	2	80	OL80U2RB	
	3	80	OL80U3RB	
	4	80	OL80U4RB	
1 - 0 - 2	1	125	OL125U1RB	
	2	125	OL125U2RB	
	3	125	OL125U3RB	
	4	125	OL125U4RB	
1 - 0 - 2	1	160	OL160U1RB	
	2	160	OL160U2RB	
	3	160	OL160U3RB	
	4	160	OL160U4RB	
1 - 0 - 2	1	200	OL200U1RB	
	2	200	OL200U2RB	
	3	200	OL200U3RB	
	4	200	OL200U4RB	
DIN-rail mounted				
1 - 0 - 2	1	25	ONU1M	
	2	25	ONU2M	
	3	25	ONU3M	
	4	25	ONU4M	
Door mounted				
1 - 0 - 2	1	10	OMU1KB	
	3	10	OMU3KB	
1 - 0 - 2	1	25	ONU1KB	
	3	25	ONU3KB	
	4	25	ONU4KB	
1 - 0 - 2	1	40	OL40U1KB	
	2	40	OL40U2KB	
	3	40	OL40U3KB	
	4	40	OL40U4KB	
1_R - 0 - 2_R, with two sided spring return, step angle 60°				
Door mounted				
1R - 0 - 2R	1	10	OMURR1PB	
	3	10	OMURR3PB	
1R - 0 - 2R	1	25	ONURR1PB	
	2	25	ONURR2PB	
	3	25	ONURR3PB	
	5	25	ONURR5PB	
1R - 0 - 2R	1	40	OL40URR1PB	
	2	40	OL40URR2PB	
	3	40	OL40URR3PB	
	5	40	OL40URR5PB	
DIN-rail mounted				
1R - 0 - 2R	1	25	ONURR1M	



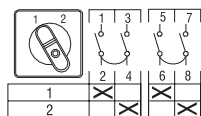
CamLine

Rotary cam switches

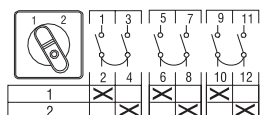
Ordering details



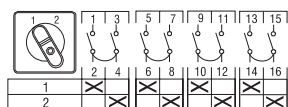
O_WS1_



O_WS2_



O_WS3_



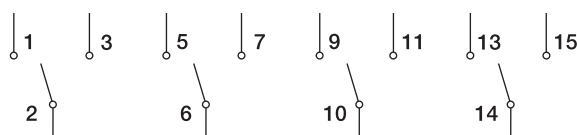
O_WS4_

Change-over switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Function	Number of poles	Rated current [A]	Catalogue number	Price List
Without 0-position, step angle 60°				
Door mounted				
1 - 2	1	10	OMWS1PB	
	2	10	OMWS2PB	
	3	10	OMWS3PB	
	4	10	OMWS4PB	
1 - 2	1	25	ONWS1PB	
	2	25	ONWS2PB	
	3	25	ONWS3PB	
	4	25	ONWS4PB	
	5	25	ONWS5PB	
	6	25	ONWS6PB	
	7	25	ONWS7PB	
	8	25	ONWS8PB	
	9	25	ONWS9PB	
	10	25	ONWS10PB	
1 - 2	1	40	OL40WS1PB	
	2	40	OL40WS2PB	
	3	40	OL40WS3PB	
	4	40	OL40WS4PB	
	5	40	OL40WS5PB	
	6	40	OL40WS6PB	
	7	40	OL40WS7PB	
	8	40	OL40WS8PB	
	9	40	OL40WS9PB	
	10	40	OL40WS10PB	
1 - 2	1	40	OL40WS1RB	
	2	40	OL40WS2RB	
	3	40	OL40WS3RB	
	4	40	OL40WS4RB	
1 - 2	1	80	OL80WS1RB	
	2	80	OL80WS2RB	
	3	80	OL80WS3RB	
	4	80	OL80WS4RB	
1 - 2	1	125	OL125WS1RB	
	2	125	OL125WS2RB	
	3	125	OL125WS3RB	
	4	125	OL125WS4RB	
1 - 2	1	160	OL160WS1RB	
	2	160	OL160WS2RB	
	3	160	OL160WS3RB	
	4	160	OL160WS4RB	
1 - 2	1	200	OL200WS1RB	
	2	200	OL200WS2RB	
	3	200	OL200WS3RB	
	4	200	OL200WS4RB	
DIN-rail mounted				
1 - 2	1	25	ONWS1M	
	2	25	ONWS2M	
	3	25	ONWS3M	
	4	25	ONWS4M	

Wiring diagram (O_WS_)





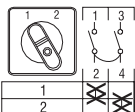
CamLine

Rotary cam switches

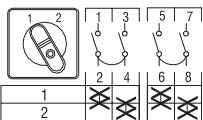
Ordering details

Change-over switches

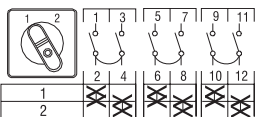
Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.



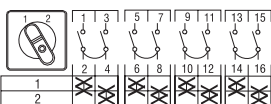
O_WC1_



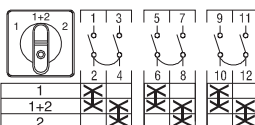
O_WC2_



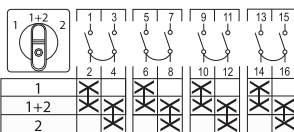
O_WC3_



O_WC4_



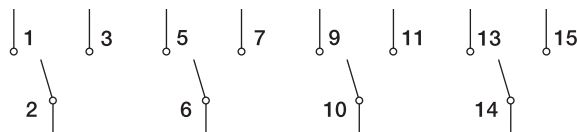
O_UC3_



O_UC4_

Function	Number of poles	Rated current [A]	Catalogue number	List price
Door mounted				
With overlapping contacts				
1-2	1	10	OMWC1PB	
	2	10	OMWC2PB	
	3	10	OMWC3PB	
	4	10	OMWC4PB	
1-2	1	25	ONWC1PB	
	2	25	ONWC2PB	
	3	25	ONWC3PB	
	4	25	ONWC4PB	
1-2	1	40	OL40WC1PB	
	2	40	OL40WC2PB	
	3	40	OL40WC3PB	
	4	40	OL40WC4PB	
1-2	1	80	OL80WC1RB	
	2	80	OL80WC2RB	
	3	80	OL80WC3RB	
	4	80	OL80WC4RB	
1-2	1	125	OL125WC1RB	
	2	125	OL125WC2RB	
	3	125	OL125WC3RB	
	4	125	OL125WC4RB	
1-2	1	160	OL160WC1RB	
	2	160	OL160WC2RB	
	3	160	OL160WC3RB	
	4	160	OL160WC4RB	
1-2	1	200	OL200WC1RB	
	2	200	OL200WC2RB	
	3	200	OL200WC3RB	
	4	200	OL200WC4RB	
With common center position and with overlapping contacts				
1 - (1 + 2) - 2	3	25	ONUC3PB	
	4	25	ONUC4PB	
1 - (1 + 2) - 2	3	40	OL40UC3PB	
	4	40	OL40UC4PB	
Door mounted, screw mounted handle				
1 - (1 + 2) - 2	3	80	OL80UC3RB	
	4	80	OL80UC4RB	
1 - (1 + 2) - 2	3	125	OL125UC3RB	
	4	125	OL125UC4RB	
1 - (1 + 2) - 2	3	160	OL160UC3RB	
	4	160	OL160UC4RB	
1 - (1 + 2) - 2	3	200	OL200UC3RB	
	4	200	OL200UC4RB	

Wiring diagram (O_WC_, O_UC_)

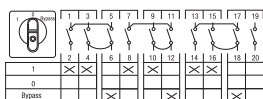




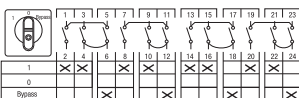
CamLine

Rotary cam switches

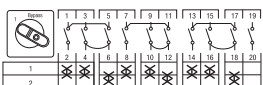
Ordering details



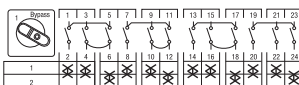
O_WS36_



O_WS48_



O_PW36_



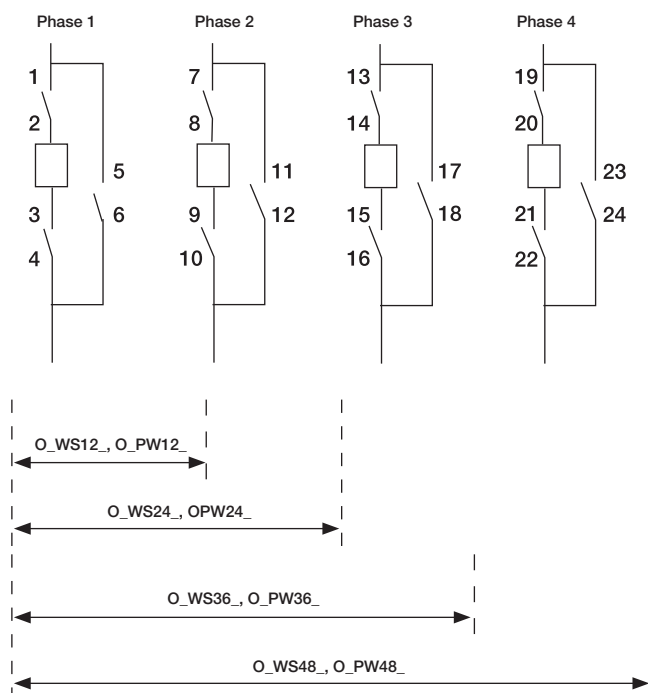
O_PW48_

Bypass switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB:screw mount.

Function	Number of poles	Rated current [A]	Catalogue number	List price
Door mounted				
Without overlapping, 3 and 4- pole network				
1 - 0 - Bypass	3 / 6	25	ONWS36PB	
	4 / 8	25	ONWS48PB	
1 - 0 - Bypass	3 / 6	40	OL40WS36PB	
	4 / 8	40	OL40WS48PB	
1 - 0 - Bypass	3 / 6	80	OL80WS36RB	
	4 / 8	80	OL80WS48RB	
1 - 0 - Bypass	3 / 6	125	OL125WS36RB	
	4 / 8	125	OL125WS48RB	
1 - 0 - Bypass	3 / 6	160	OL160WS36RB	
	4 / 8	160	OL160WS48RB	
1 - 0 - Bypass	3 / 6	200	OL200WS36RB	
	4 / 8	200	OL200WS48RB	
With overlapping, 3 and 4- pole network				
1 - Bypass	3 / 6	25	ONPW36PB	
	4 / 8	25	ONPW48PB	
1 - Bypass	3 / 6	40	OL40PW36PB	
	4 / 8	40	OL40PW48PB	
1 - Bypass	3 / 6	80	OL80PW36RB	
	4 / 8	80	OL80PW48RB	
1 - Bypass	3 / 6	125	OL125PW36RB	
	4 / 8	125	OL125PW48RB	
1 - Bypass	3 / 6	160	OL160PW36RB	
	4 / 8	160	OL160PW48RB	
1 - Bypass	3 / 6	200	OL200PW36RB	
	4 / 8	200	OL200PW48RB	

Wiring diagram, bypass switches





CamLine

Rotary cam switches

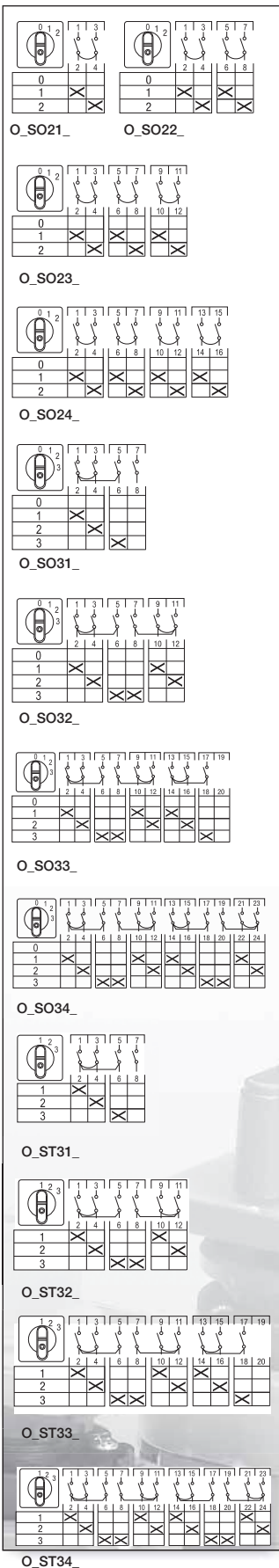
Ordering details

Multistep switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Step angle 30°

Function	Number of poles	Rated current [A]	Catalogue number	List price
2- step, with O-position				
Door mounted				
0 - 1 - 2	1	10	OMSO21PB	
	2	10	OMSO22PB	
	3	10	OMSO23PB	
	4	10	OMSO24PB	
0 - 1 - 2	1	25	ONSO21PB	
	2	25	ONSO22PB	
	3	25	ONSO23PB	
	4	25	ONSO24PB	
0 - 1 - 2	6	25	ONSO26PB	
	1	40	OL40SO21PB	
	2	40	OL40SO22PB	
	3	40	OL40SO23PB	
0 - 1 - 2	4	40	OL40SO24PB	
	6	40	OL40SO26PB	
0 - 1 - 2	1	80	OL80SO21RB	
	1	125	OL125SO21RB	
	1	160	OL160SO21RB	
	1	200	OL200SO21RB	
DIN-Rail mounted				
0 - 1 - 2	1	25	ONSO21M	
	2	25	ONSO22M	
3- step, with O-position				
Door mounted				
0 - 1 - 2 - 3	1	10	OMSO31PB	
	2	10	OMSO32PB	
	3	10	OMSO33PB	
	4	10	OMSO34PB	
0 - 1 - 2 - 3	1	25	ONSO31PB	
	2	25	ONSO32PB	
	3	25	ONSO33PB	
	4	25	ONSO34PB	
0 - 1 - 2 - 3	5	25	ONSO35PB	
	1	40	OL40SO31PB	
	2	40	OL40SO32PB	
	3	40	OL40SO33PB	
0 - 1 - 2 - 3	4	40	OL40SO34PB	
	5	40	OL40SO35PB	
0 - 1 - 2 - 3	1	80	OL80SO31RB	
	1	125	OL125SO31RB	
	1	160	OL160SO31RB	
	1	200	OL200SO31RB	
DIN-rail mounted				
0 - 1 - 2 - 3	1	25	ONSO31M	
3- step, without O-position				
Door mounted				
1 - 2 - 3	1	10	OMST31PB	
	2	10	OMST32PB	
	3	10	OMST33PB	
	4	10	OMST34PB	
1 - 2 - 3	1	25	ONST31PB	
	2	25	ONST32PB	
	3	25	ONST33PB	
	4	25	ONST34PB	
DIN-rail mounted				
1 - 2 - 3	1	25	ONST31M	





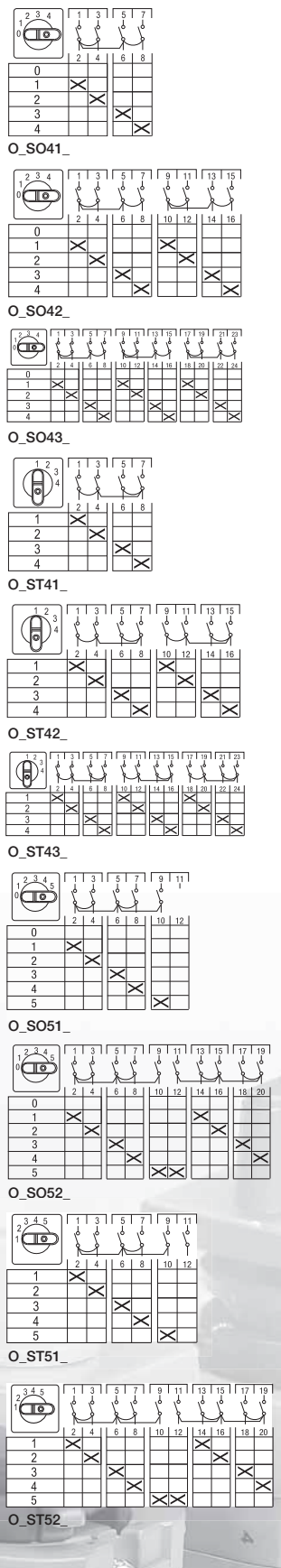
CamLine

Rotary cam switches

Ordering details

Multistep switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.
Step angle 30°



Function	Number of poles	Rated current [A]	Catalogue number	List price
3- step, without O-position				
Door mounted				
1 - 2 - 3	1	40	OL40ST31PB	
	2	40	OL40ST32PB	
	3	40	OL40ST33PB	
	4	40	OL40ST34PB	
	6	40	OL40ST36PB	
	8	40	OL40ST38PB	
4- step, with O-position				
Door mounted				
0 - 1 - 2 - 3 - 4	1	10	OMSO41PB	
	2	10	OMSO42PB	
	3	10	OMSO43PB	
0 - 1 - 2 - 3 - 4	1	25	ONSO41PB	
	2	25	ONSO42PB	
	3	25	ONSO43PB	
0 - 1 - 2 - 3 - 4	1	40	OL40SO41PB	
	2	40	OL40SO42PB	
	3	40	OL40SO43PB	
4- step, without O-position				
Door mounted				
1 - 2 - 3 - 4	1	10	OMST41PB	
	2	10	OMST42PB	
	3	10	OMST43PB	
1 - 2 - 3 - 4	1	25	ONST41PB	
	2	25	ONST42PB	
	3	25	ONST43PB	
1 - 2 - 3 - 4	1	40	OL40ST41PB	
	2	40	OL40ST42PB	
	3	40	OL40ST43PB	
5- step, with O-position				
Door mounted				
0 - 1 - 2 - 3 - 4 - 5	1	10	OMSO51PB	
	2	10	OMSO52PB	
0 - 1 - 2 - 3 - 4 - 5	1	25	ONSO51PB	
	2	25	ONSO52PB	
0 - 1 - 2 - 3 - 4 - 5	1	40	OL40SO51PB	
	2	40	OL40SO52PB	
Din-rail mounted				
0 - 1 - 2 - 3 - 4 - 5	1	25	ONSO51M	
5- step, without O-position				
Door mounted				
1 - 2 - 3 - 4 - 5	1	10	OMST51PB	
	2	10	OMST52PB	
1 - 2 - 3 - 4 - 5	1	25	ONST51PB	
	2	25	ONST52PB	
1 - 2 - 3 - 4 - 5	1	40	OL40ST51PB	
	2	40	OL40ST52PB	



CamLine

Rotary cam switches

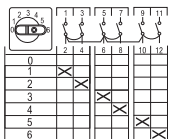
Ordering details

Multistep switches

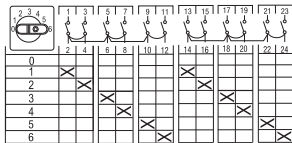
Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Step angle 30°

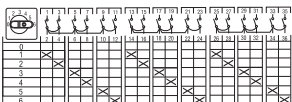
Function	Number of poles	Rated current [A]	Catalogue number	List price
Door mounted				
6-step, with 0-position				
0 - 1 - 2 - 3 - 4 - 5 - 6	1	25	ONSO61PB	
	2	25	ONSO62PB	
	3	25	ONSO63PB	
0 - 1 - 2 - 3 - 4 - 5 - 6	1	40	OL40SO61PB	
	2	40	OL40SO62PB	
	3	40	OL40SO63PB	
6-step, without 0-position				
1 - 2 - 3 - 4 - 5 - 6	1	25	ONST61PB	
	2	25	ONST62PB	
	3	25	ONST63PB	
1 - 2 - 3 - 4 - 5 - 6	1	40	OL40ST61PB	
	2	40	OL40ST62PB	
	3	40	OL40ST63PB	
1 - 2 - 3 - 4 - 5 - 6	1	80	OL80ST61PB	
	1	125	OL125ST61PB	
	1	160	OL160ST61PB	
	1	200	OL200ST61PB	
7-step, with 0-position				
0-1-2-3-4-5-6-7	1	25	ONSO71PB	
	1	40	OL40SO71PB	
7-step, without 0-position				
1-2-3-4-5-6-7	1	25	ONST71PB	
	1	40	OL40ST71PB	
8-step, with 0-position				
0-1-2-3-4-5-6-7-8	1	25	ONSO81PB	
	1	40	OL40SO81PB	
8-step, without 0-position				
1-2-3-4-5-6-7-8	1	25	ONST81PB	
	1	40	OL40ST81PB	



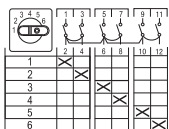
O_SO61_



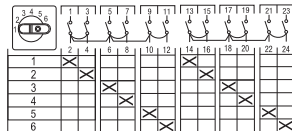
O_SO62_



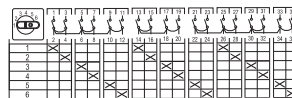
O_SO63_



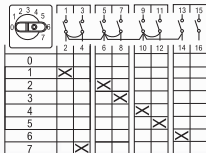
O_ST61_



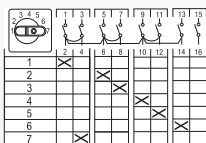
O_ST62_



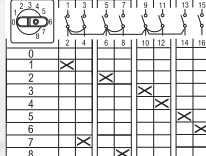
O_ST63_



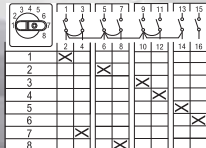
O_SO71_



O_ST71_



O_SO81_



O_ST81_



CamLine

Rotary cam switches

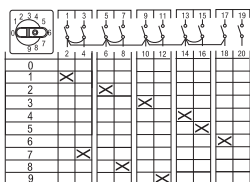
Ordering details

Multistep switches

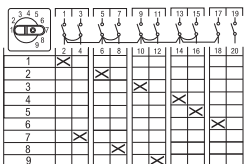
Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Step angle 30°

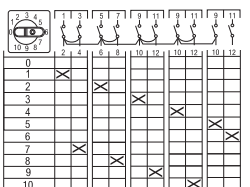
Function	Number of poles	Rated current [A]	Catalogue number	List price
Door mounted				
9-step, with 0-position				
0-1-2-3-4-5-6-7-8-9	1	25	ONSO91PB	
	1	40	OL40SO91PB	
9-step, without 0-position				
1-2-3-4-5-6-7-8-9	1	25	ONST91PB	
	1	40	OL40ST91PB	
10-step, with 0-position				
0-1-2-3-4-5-6-7-8-9-10	1	25	ONSO101PB	
	1	40	OL40SO101PB	
10-step, without 0-position				
1-2-3-4-5-6-7-8-9-10	1	25	ONST101PB	
	1	40	OL40ST101PB	
11-step, with 0-position				
0-1-2-3-4-5-6-7-8-9-10-11	1	25	ONSO111PB	
	1	40	OL40SO111PB	
11-step, without 0-position				
1-2-3-4-5-6-7-8-9-10-11	1	25	ONST111PB	
	1	40	OL40ST111PB	
12-step, without 0-position				
1-2-3-4-5-6-7-8-9-10-11-12	1	25	ONST121PB	
	1	40	OL40ST121PB	



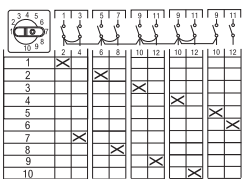
O_SO91_



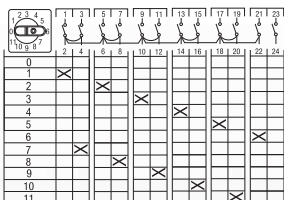
O_ST91_



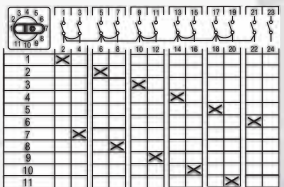
O_SO101_



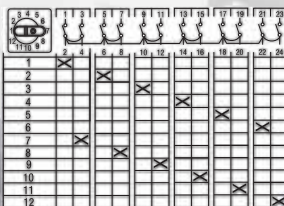
O_ST101_



O_SO111_



O_ST111_



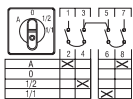
O_ST121_



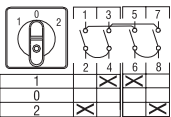
CamLine

Rotary cam switches

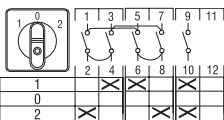
Ordering details



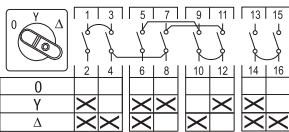
O_ST301_



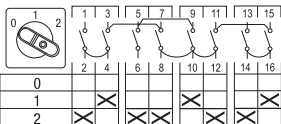
O_W2_



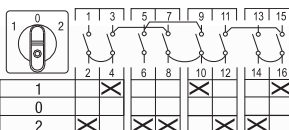
O_W3_



O_SD_, O_SDE_



O_P12_



O_P012_

Motor control switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Step angle 60°

Function	Number of poles	Rated current [A]	Motor rating	Catalogue number	List price
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Ventilation switches

Door mounted

A - 0 - 1/2 - 1/1

2
2

25
40

600V [HP]
5
20

ONST301PB
OL40ST301PB

DIN-rail mounted

A - 0 - 1/2 - 1/1

2

25

5

ONST301M

Reversing switches

Door mounted, 3 phase

1 - 0 - 2

2
2
2

25
40
80

600V [HP]
5
20
30

ONW2PB
OL40W2PB
OL80W2RB

1 - 0 - 2

3
3

25
40

5
20

ONW3PB
OL40W3PB

Door mounted, 1 phase

1 - 0 - 2

3
3

25
40

240V [HP]
1
3

ON6PBS5487
OL406PBS12326

Star-delta switches

Door mounted

0 - Y - Δ

3
3
3
3
3
3

25
40
80
125
160
200

600V [HP]
5
20
30
40
50
120

ONSDPB
OL40SDPB
OL80SDRB
OL125SDRB
OL160SDRB
OL200SDRB

Pole-change switches (Dahlander)

Winding for 2 speeds, one direction, 0 - A - AYY

Door mounted

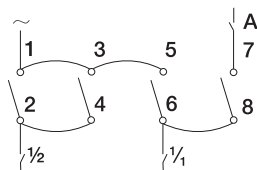
0 - 1 - 2

3
3
3
3
3

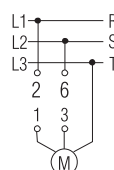
25
40
80
125
160
200

600V [HP]
5
20
30
40
50
120

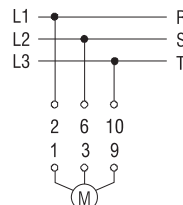
ONP12PB
OL40P12PB
OL80P012RB
OL125P012RB
OL160P012RB
OL200P012RB



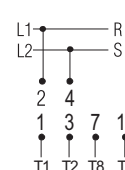
O_ST301



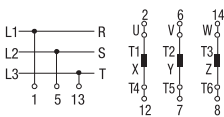
O_W2_



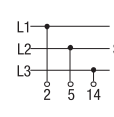
O_W3_



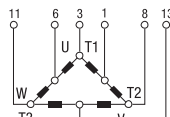
ON6PBS5487



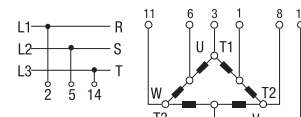
O_SD_, O_SDE_



O_P12_



O_P012_



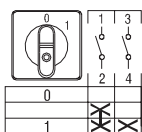
O_P012_



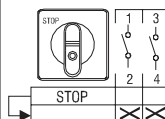
CamLine

Rotary cam switches

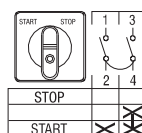
Ordering details



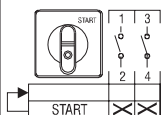
O_SE158_



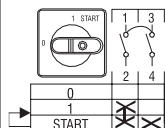
O_SA2_



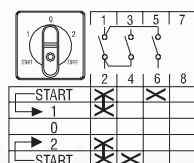
O_SEA1_



O_SE2_



O_SEA10_



O_UR139_

Motor control switches

Black handle and front plate with position indication are included. PB: snap-on handle, RB: screw mount.

Function	Number of poles	Rated current [A]	Catalogue number	List price
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Pumpstart switches

Step angle 60°

Door mounted

0 - 1	1	10	OMSE158PB
	1	25	ONSE158PB

DIN-rail mounted

0 - 1	1	25	ONSE158M
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Stop switches

Step angle 30°, with spring return, contacts N.C.

Door mounted

0 _R -Stop	2	10	OMSA2PB
	2	25	ONSA2PB

Start switches

Step angle 30°, with spring return.

Door mounted

Stop-Start	1	25	ONSEA1PB
0 _R -Start	1	10	OMSE2PB
	1	25	ONSE2PB

Step angle 90° - 30°

0-1 _R -Start	1	10	OMSEA10PB
	1	25	ONSEA10PB
Start-1 _R -0-2 _R -Start	1	25	ONUR139PB
Start-1 _R -0-2 _R -Start	1	40	OL40UR139PB

Step angle 90° - 30°, with spring return

DIN-rail mounted

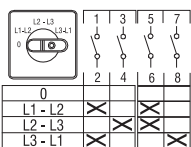
0-1 _R -Start	1	25	ONSEA10M
Start-1 _R -0-2 _R -Start	1	25	ONUR139M



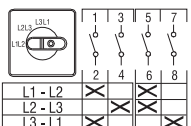
CamLine

Rotary cam switches

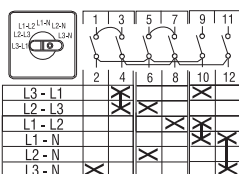
Ordering details



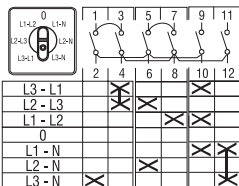
O_V3_



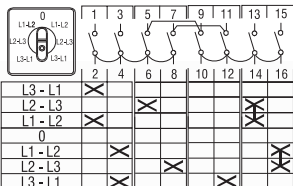
O_VN3_



O_VN30_



O_V30_

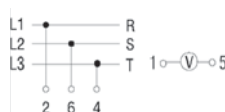


O_V32_

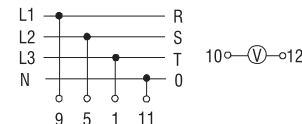
Voltmeter switches

Black handle and front plate with position indication are included.

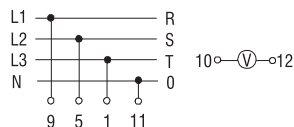
Function	Number of poles	Rated current [A]	Catalogue number	List price
3 Positions, 3 phase -3 wire, without 0-position, step angle 45°				
Door mounted				
L1-L2, L2-L3, L3-L1	2	10	OMVN3PB	
	2	25	ONVN3PB	
	2	25	OL40VN3PB	
DIN-rail mounted				
L1-L2, L2-L3, L3-L1	2	25	ONVN3M	
4 Positions, 3 phase -3 wire, with 0-position, step angle 45°				
Door mounted				
0, L1-L2, L2-L3, L3-L1	2	10	OMV3PB	
	2	25	ONV3PB	
	2	40	OL40V3PB	
DIN-rail mounted				
0, L1-L2, L2-L3, L3-L1	2	25	ONV3M	
7 Positions, 3 phase to phase 3 phase to neutral, without 0-position, step angle 30°				
Door mounted				
L1-L3, L2-L3, L1-L2, L1-N, L2-N, L3-N	3	10	OMVN30PB	
	3	25	ONVN30PB	
	3	40	OL40VN30PB	
DIN-rail mounted				
L1-L3, L2-L3, L1-L2, L1-N, L2-N, L3-N	3	25	ONVN30M	
7 Positions, 3 phase to phase 3 phase to neutral, with 0-position, step angle 45°				
Door mounted				
L1-L3, L2-L3, L1-L2, 0, L1-N, L2-N, L3-N	3	10	OMV30PB	
	3	25	ONV30PB	
	3	40	OL40V30PB	
DIN-rail mounted				
L1-L3, L2-L3, L1-L2, 0, L1-N, L2-N, L3-N	3	25	ONV30M	
7 Positions, 3 phase to phase voltages for 2 circuits, with 0 position, step angle 45°				
Door mounted				
L1-L3, L2-L3, L1-L2, 0, L1-L3, L2-L3, L1-L2	4	10	OMV32PB	
	4	25	ONV32PB	
	4	40	OL40V32PB	



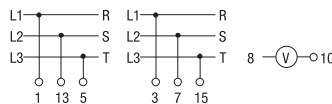
O_VN3_



O_VN30_



O_V30_



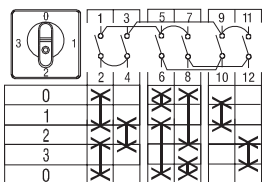
O_V32_



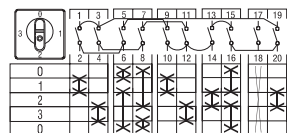
CamLine

Rotary cam switches

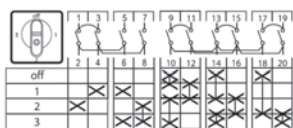
Ordering details



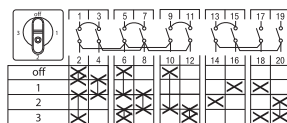
O_AU31_



O_AU32_



O_VA21_



O_AV12_

Ammeter switches

Black handle and front plate with position indication are included.

Function	Rated current [A]	Catalogue number	List price
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For 3 current transformer circuits, with 0-position, step angle 90°

Door mounted

Single pole

0 - 1 - 2 - 3

10

25

40

OMAU31PB

ONAU31PB

OL40AU31PB

2 pole or direct measurement in 3 phases

0 - 1 - 2 - 3

25

40

ONAU32PB

OL40AU32PB

DIN-rail mounted

Single pole

0 - 1 - 2 - 3

25

ONAU31M

Volt-ammeter switches

Black handle and frontplate with position indication are included.

Function	Rated current [A]	Catalogue number	List price
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Measuring between phases and 3 current transformers with common pole, step angle 90°

Door mounted

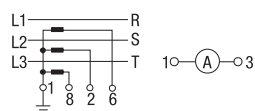
OFF - 1 - 2 - 3

25

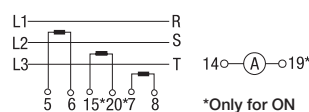
25

ONVA21PB

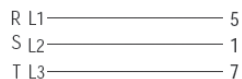
ONAV12PB



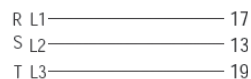
O_AU31_



O_AU32_



O_AV21



O_VA12



CamLine

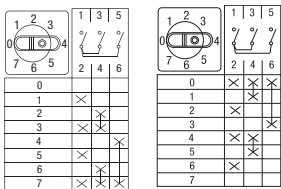
Rotary cam switches

Ordering details

Binary code switches

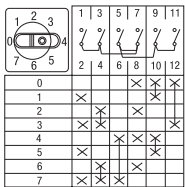
Black handle and front plate with position indication are included.

Function	Number of poles	Rated current [A]	Catalogue number	List price
With 0-position, step angle 30°				
Door mounted				
0 - 1 - 2 - 3	1	25	ONBC030PB	
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7	1	25	ONBC070PB	
	1	25	ONBC071PB	
	2	25	ONBC072PB	
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9	1	25	ONBC090PB	
	1	25	ONBC091PB	
	2	25	ONBC092PB	
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11	1	25	ONBC0110PB	
	2	25	ONBC0112PB	

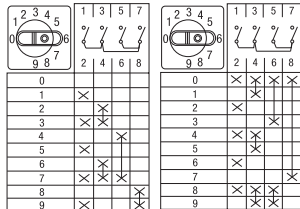


O_BC070_

O_BC071_

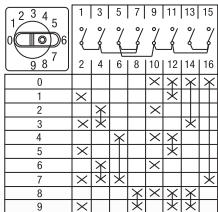


O_BC072_

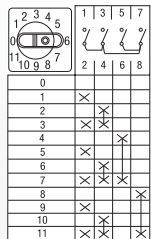


O_BC090_

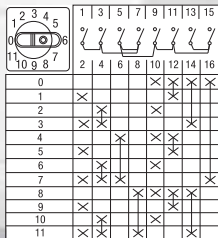
O_BC091_



O_BC092_



O_BC110_



O_BC112_



CamLine

Accessories

Ordering details



Handles

Colour	For cam switches	Catalogue number	List price
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Snap on handle with front plate without engraving

(The black handle is standard delivery in types OM, ON, and OL40)

Size 30x30, 6mm shaft

Black	OM	OMPB1
Gray	OM	OMPG1
Red	OM	OMPR1
Red-yellow	OM	OMPRY1

Size 48x48, 6mm shaft

Black	ON_PB, OL40	ONPB1
Gray	ON_PB, OL40	ONPG1
Red	ON_PB, OL40	ONPR1
Red-yellow	ON_PB, OL40	ONPRY1

Snap on handle with large front plate without engraving

Size 64x64, 6mm shaft

Black	ON_PB, OL40	ONPLB1
Gray	ON_PB, OL40	ONPLG1
Red	ON_PB, OL40	ONPLR1
Red-yellow	ON_PB, OL40	ONPLRY1

Screw mounting handle with front plate without engraving

(The black handle is standard delivery in types OL 80...200)

Size 90x90, 8mm shaft

Black	OL80, OL125, OL160	OLR2B
Gray	OL80, OL125, OL160	OLR2G
Red	OL80, OL125, OL160	OLR2R

Size 130x130, 10mm shaft

Black	OL200	OLR3B
Gray	OL200	OLR3G
Red	OL200	OLR3R

Snap on handle with round escutcheon plate

Black	OM	OMXB1
Black, nose-type	OM	OMXNB1
Black	ON_PB, OL40	ONXB1

Screw mounting pistol type handle

Black	OL80, OL125, OL160	OLZ2RB
Red	OL80, OL125, OL160	OLZ2RR
Black	OL200	OLZ3RB
Red	OL200	OLZ3RR

Screw mounting double lever handle, suitable for 10mm shaft, replaces the standard handle

Black	OL200	OLZ3DB
Red	OL200	OLZ3DR

Padlockable handle knob, without front plate ¹⁾

The standard handle knob is replaced by the padlockable handle knob. For max 2 padlocks of 6 mm hasp diameter. Standard padlocking in the OFF-position at 9 o'clock. Padlocking in the ON-position (12 o'clock) by turning the control piece 180 degrees. Padlocking in both OFF-and ON-positions by removing a precut in the yellow control piece.

Black	ON_PB, ON_M, OL40	ONZ20B
Red-yellow	ON_PB, ON_M, OL40	ONZ20RY

Round padlockable handle for screw mounting on door

Knob pistol type handles with front plate without engraving, size 64x64, for max 3 padlocks of 6 mm hasp diameter, length 32 mm

Snap-on mounting handles (one-hole mounting)

Black	ON_PL_, OL40_PL_	OLZ20PB
Red-yellow	ON_PL_, OL40_PL_	OLZ20PRY

Screw mounting handles (four-hole mounting)

Black	ON_RL_, OL40...80	OLZ20RB
Red-yellow	ON_RL_, OL40...80	OLZ20RRY

1) More cam switches with padlockable handles can be configured on Internet by the Canweb configurator tool.



CamLine

Accessories

Ordering details

Optional handles

The type and ordering number are for one piece.

Colour	For cam switches	Catalogue number	List price
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Round padlockable handle for screw mounting on door

For max 3 padlocks with max 8 mm hasp diameter. Locking positions of type ONZ33_ 9 o'clock (O,OFF) - 12 o'clock (1, ON) or switch rotated 12 o'clock (O, OFF) - 3 o'clock (1, ON). Other square handle padlock positions can be specified by camweb tool.

Size 64x64, shaft size 6 mm

Black	ON_PB, OL40	ONZ331PB
Red-yellow	ON_PB, OL40	ONZ331PRY

Size 90x90, shaft size 8 mm

Black	OL80, OL125, OL160	OLZ332RB
Red-yellow	OL80, OL125, OL160	OLZ332RRY

Low extended handle knob

Replaces the standard knob in handles ONP_ and ONPL_.

Black	ON_, OL40_	ONSB1
Grey	ON_, OL40_	ONSG1

Knob-pistol type handle, screw mounting

Suitable for 6 mm shaft, replaces the standard handle, length 32 mm.

Black	ON_, OL40_, OL80	OLZ20RB
Red	ON_, OL40_, OL80	OLZ20RRY

Pistol type handle, screw mounting

Suitable for 8 mm shaft, replaces the standard handle, length 70 mm.

Black	OL125, OL160	OLZ8RB
Red	OL125, OL160	OLZ8RR

Suitable for 10 mm shaft, replaces the standard handle, length 130 mm.

Black	OL200	OLZ9RB
Red	OL200	OLZ9RB



ONZ331PB



OLZ332RRY



ONSB1



OLZ20R_



OLZ8RB



OLZ9RB

More cam switches with padlockable handles can be configured on Internet by the Camweb configurator tool.



CamLine

Accessories

Ordering details



OMF101

ONF101



OLF64

OLF90



ONFM101



OMFB72

ONFB72



OLFB64



OMX99

ONX99

Front plates

Colour	For cam switches/handle size	Catalogue number	List price
Front plates, without engraving			
Size 30x30			
Silver	OM/OMP_1	OMF101	
Yellow	OM/OMPR41	OMFY101	
Size 48x48			
Silver	ON_PB, OL 40/ONP_1	ONF101	
Clear	ON_PB, OL 40/ONP_1	ONFC101	
Yellow	ON_PB, OL 40/ONPRY1	ONFY101	
Size 64x64			
Silver	ONPL_1	OLF64	
Clear	ONPL_1	OLFC64	
Yellow	ONPLRY1	OLFY64	
Black	ONPL_1	OLFB64	
Size 90x90			
Silver	OL80, OL125, OL160/OLR2_	OLF90	
Clear	OL80, OL125, OL160/OLR2_	OLFC90	
Yellow	OL80, OL125, OL160/OLR2_	OLFY90	
Size 130x130			
Silver	OL200/OLR3_	OLF130	
Clear	OL200/OLR3_	OLFC130	
Yellow	OL200/OLR3_	OLFY130	
Size H=45mm, W=54mm			
Grey	ON_M	ONFM101	

Additional lettering plates

Without engraving, black engraving from front side available.

Size 30x30			
Black frame	OM	OMFB72	
Grey frame	OM	OMFG72	
Size 48x48			
Black frame	ON_PB, OL 40	ONFB72	
Grey frame	ON_PB, OL 40	ONFG72	
Size 64x64			
Black frame	ON_PB, OL 40	OLFB64	
Grey frame	ON_PB, OL 40	OLFG64	

Front ring

Black	OM	OMX99	
Black	ON_PB, OL40	ONX99	

Shaft sealing

To prevent dust and moisture from penetrating along the switch shaft. Protection to NEMA 4X from the front. Door drilling 16...17 mm.

Description	For cam switches/handle size	Catalogue number	List price
Shaft Seal	ON, OL40	ONZ11	
	OL 80...160	OLZ12	

Door clutch

This is for coupling base-mounted unit in an enclosure with it's control handle mounted on a pivoting door.

Description	For cam switches	Catalogue number	List price
Door clutch	ON, OL40	ONZ45P	
	OL 80...160	OLZ652	
	OL200	OLZ653	



CamLine

Accessories

Ordering details



OMK95

ONK95



ONZ10L_



OMNX80



ONX30



ONZ74_

Other accessories

Spare key

Number of keys included	For cam switches	Catalogue number	List price
2 pcs	OM	OMK95	
3 pcs	ON, OL40	ONK95	

Protective rear cover

Transparent, IP 42 protection

Number of chambers	Number of contacts	For cam switches	Catalogue number	List price
1-2	1-4	ON	ONZ10L2	
3-4	5-8	ON	ONZ10L4	
5-6	9-12	ON	ONZ10L6	
2	1-4	OL40	OLZ401L2	
4	5-8	OL40	OLZ401L4	
6	9-12	OL40	OLZ401L6	
2	1-4	OL80...160	OLZ1601L2	
4	5-8	OL80...160	OLZ1601L4	
6	9-12	OL80...160	OLZ1601L6	

Nut spanner tool

for mounting the handle to the door

Colour	For cam switches	Catalogue number	List price
Black	OM, ON	OMNX80	

Adaptor ring

for fixing the snap-on handles in the 30 mm door drilling.

Black	ON	ONX30	
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Base mounting kit

Includes base for DIN-rail mounting, shaft adaptor and 200 mm shaft for cutting up to 250 mm panel depth.

Depth [mm]	For cam switches	Catalogue number	List price
250	ON	ONZ74	

DIN-Rail mounting plate

Depth [mm]	For cam switches	Catalogue number	List price
Includes base for DIN-rail mounting	ON	ONZ37	

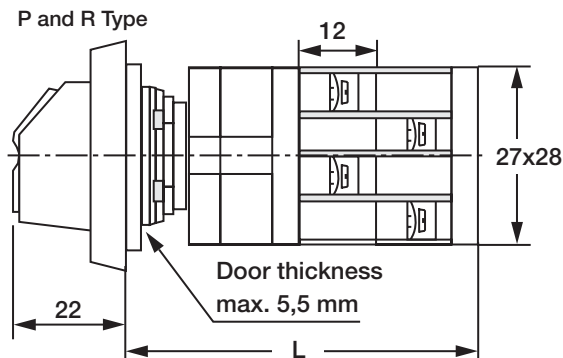
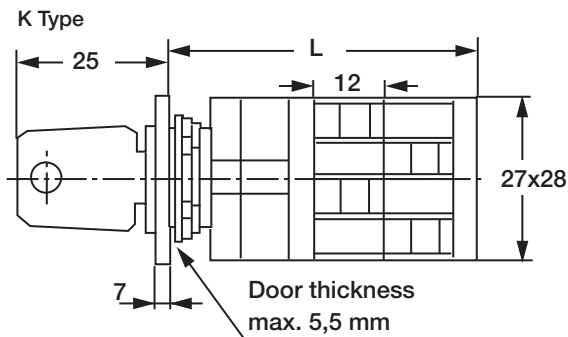
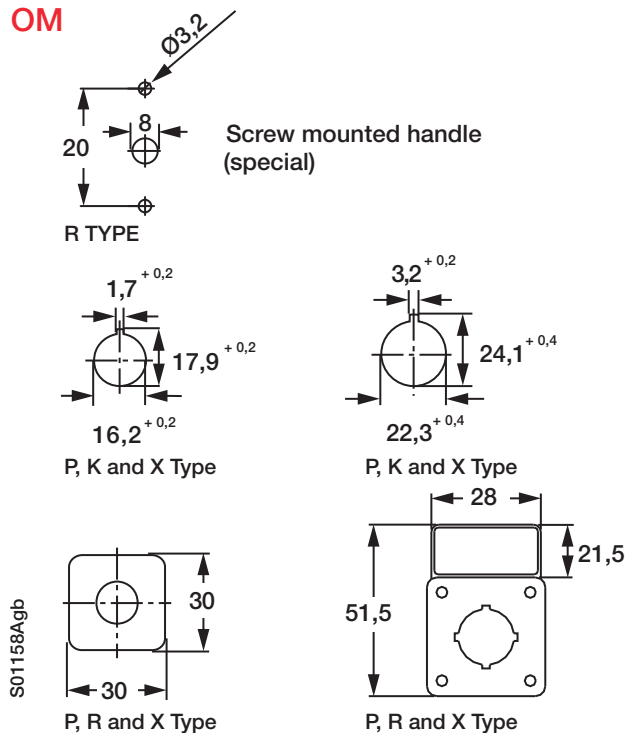


CamLine

Rotary cam switches

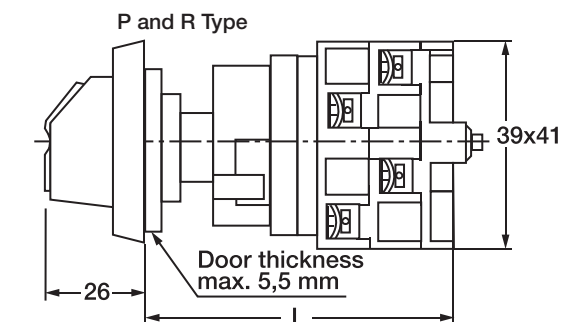
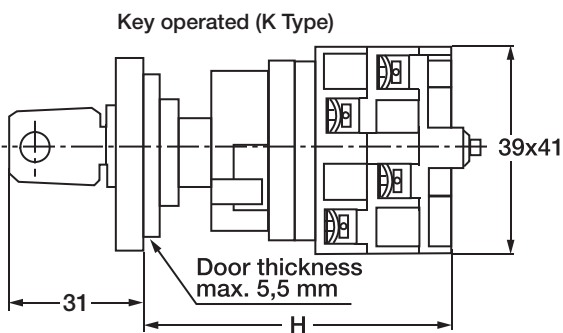
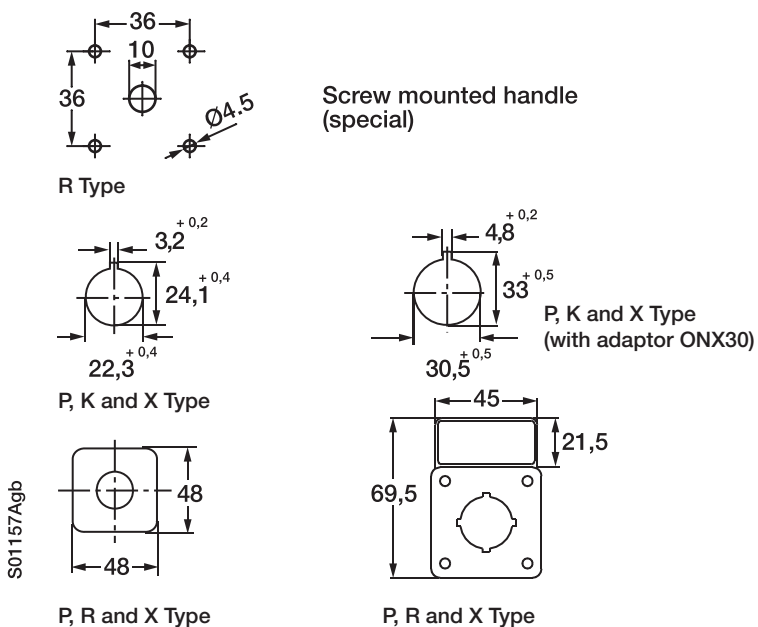
Dimension drawings, OM and ON

OM



		Number of contact chambers							
		1	2	3	4	5	6	7	8
Snap-on mounting (P type)	L	45	57	69	81	93	105	117	129
Screw mounting (R type)	L	33	45	57	69	81	93	105	117

ON



		Number of contact chambers									
		1	2	3	4	5	6	7	8	9	10
Snap-on mounting (P type)	L	54	66	78	90	102	114	126	138	150	162
Screw mounting (R type)	L	34	46	58	70	82	94	106	118	130	142
Key operated (K type)	H	62	74	86	98	110	122	134	146	159	171

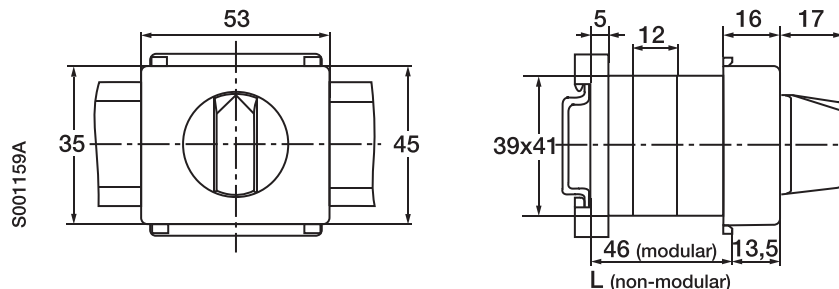


CamLine

Rotary cam switches

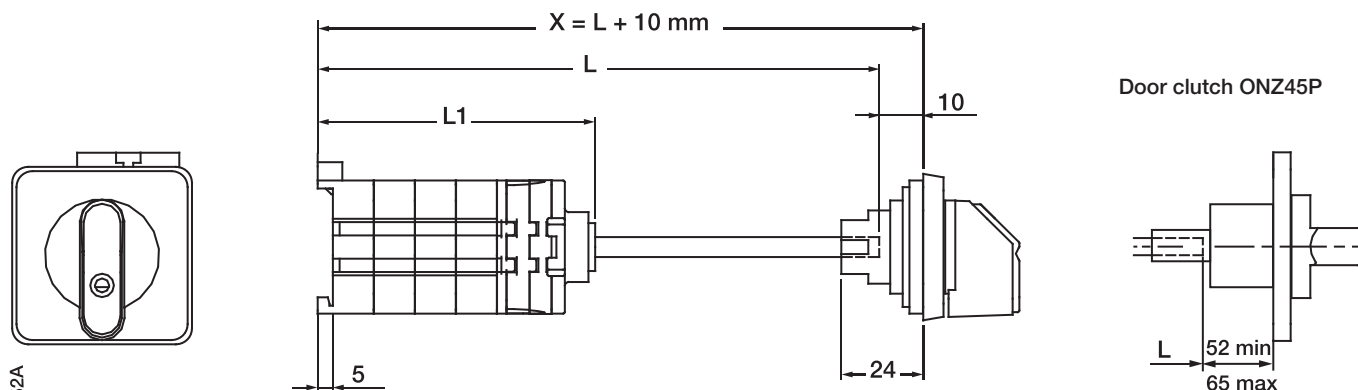
Dimension drawings, ON, OL and ONZ 74

ON_M



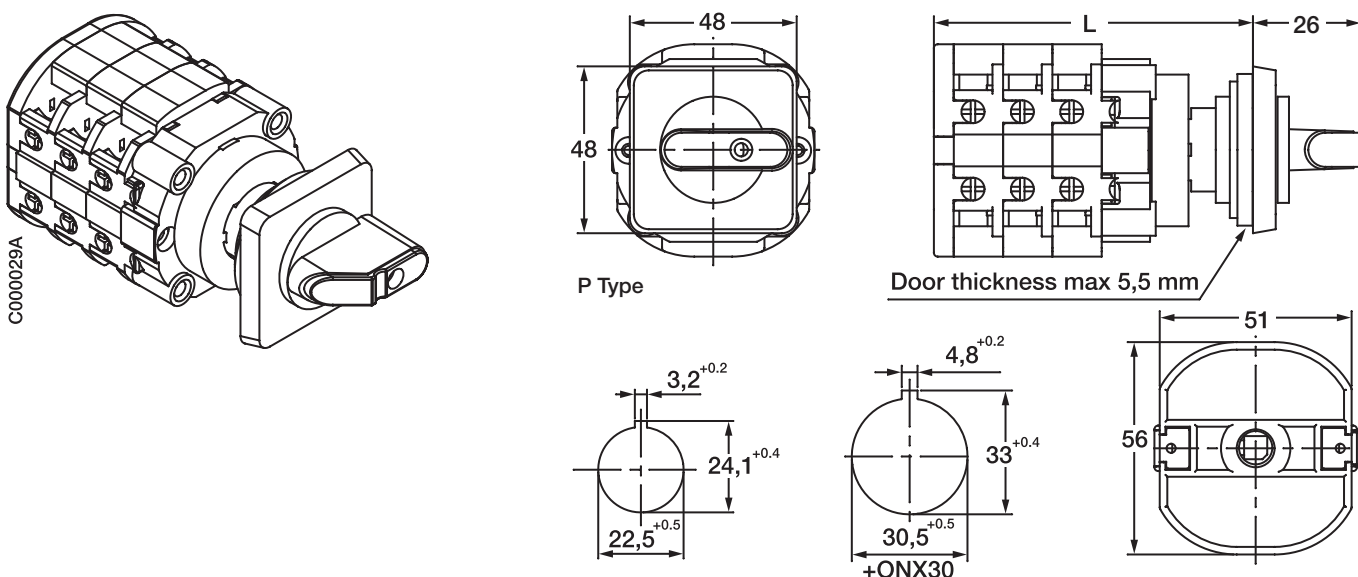
Non-modular: number of contact chambers							
	2	3	4	5	6	7	8
L	58	70	82	94	106	118	130

ON with base mounting kit ONZ 74 - to be specified by Camweb configurator



Number of contact chambers/example: Shaft length 200 mm										
	1	2	3	4	5	6	7	8	9	10
L ₁	55	67	79	91	103	115	127	139	151	163
L	345	357	369	381	393	405	417	429	441	453

OL40, door mounted with snap-on mounting handle type P, PL and round front ring type X



Number of contact chambers										
	1	2	3	4	5	6	7	8	9	10
L	59	72	85	98	111	124	137	150	163	176

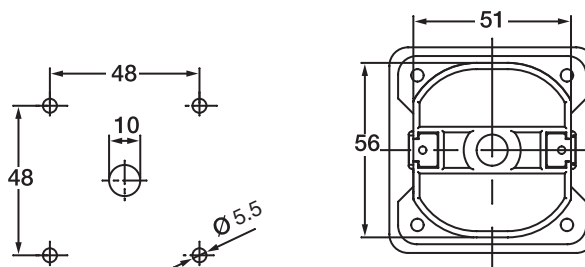
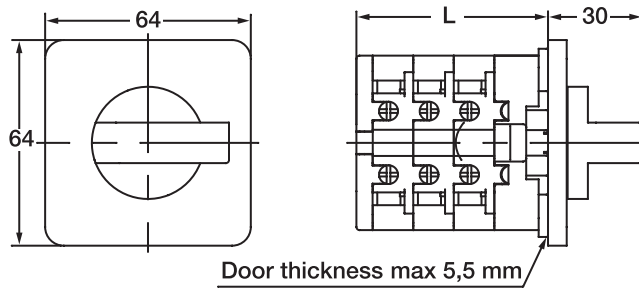
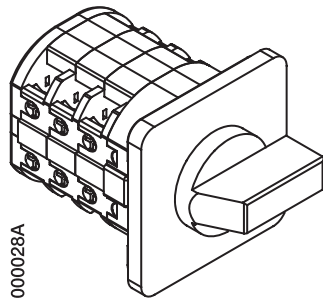


CamLine

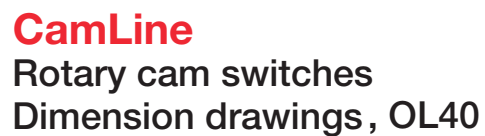
Rotary cam switches

Dimension drawings, OL40

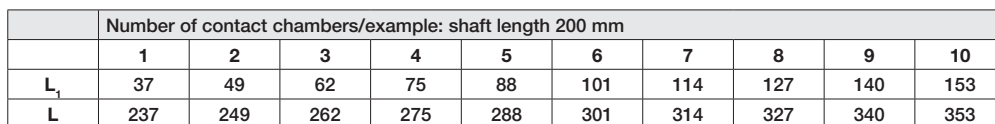
OL40, door mounted with screw mounting handle, front plate size 64x64 RL Type



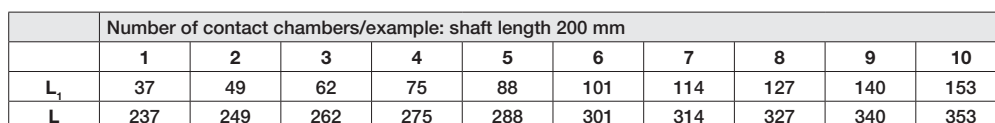
	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	39	52	65	78	91	104	117	130	143	156



C000030A



C0000031A



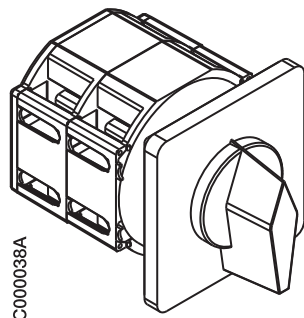


CamLine

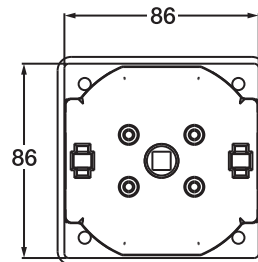
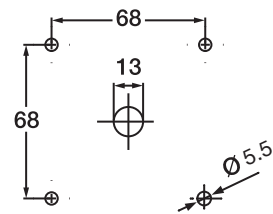
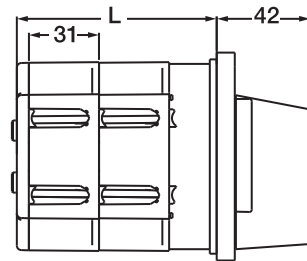
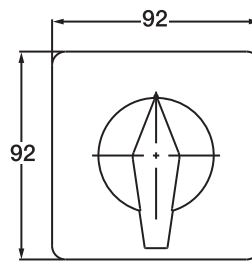
Rotary cam switches

Dimension drawings, OL80, OL125 and OL160

OL80, OL125, OL160 door mounted

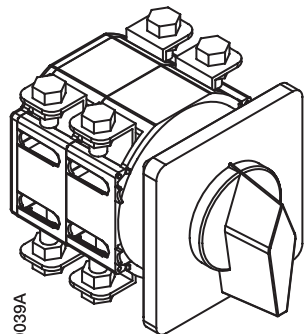


C000038A

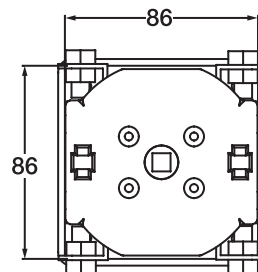
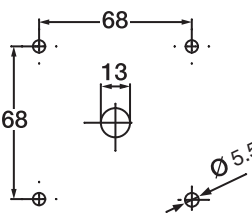
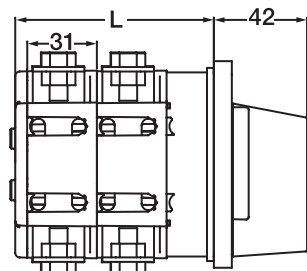
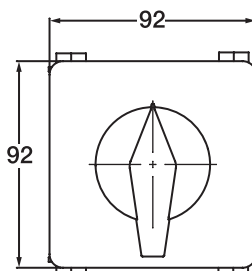


	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	66	97	128	159	190	221	252	283	314	345

OL80, OL125, OL160 door mounted, lug terminals - to be specified by Camweb configurator



C000039A



	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	66	97	128	159	190	221	252	283	314	345

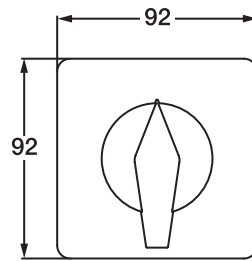
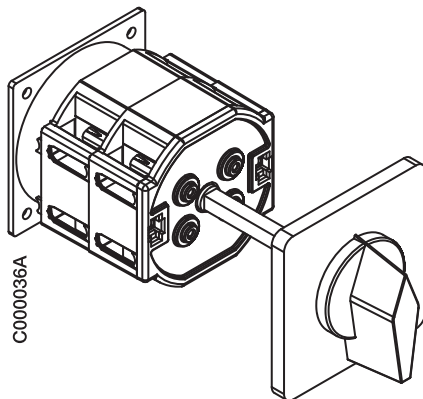


CamLine

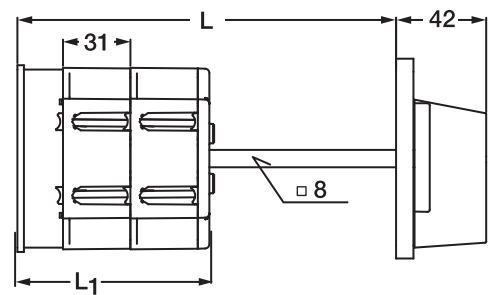
Rotary cam switches

Dimension drawings, OL80, OL125 and OL160

OL80, OL125, OL160 base mounted - to be specified by Camweb configurator

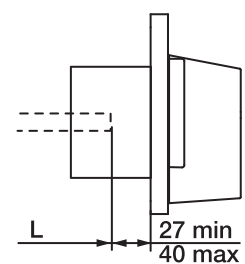
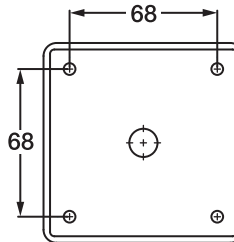
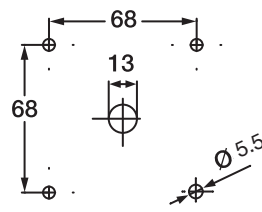


Front plate



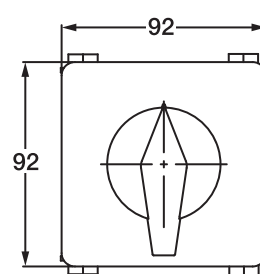
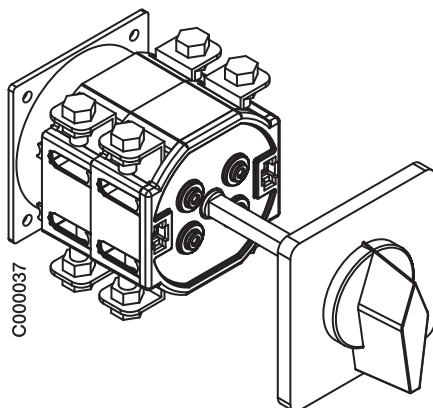
Base plate

Door clutch ONZ45P

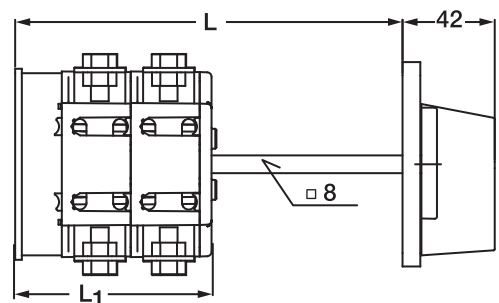


	Number of contact chambers/Shaft length 100 mm									
	1	2	3	4	5	6	7	8	9	10
L ₁	65	96	127	158	189	220	251	282	313	344
L	165	196	227	258	289	320	351	382	413	444

OL80, OL125, OL160 base mounted, lug terminals - to be specified by Camweb configurator

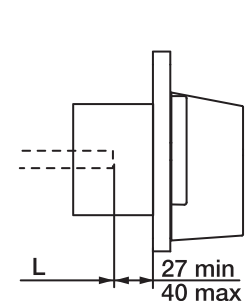
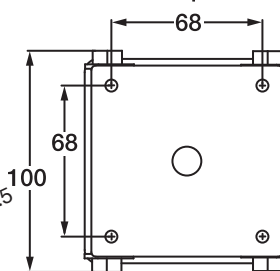
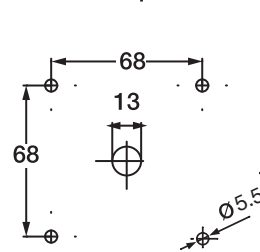


Front plate



Base plate

Door clutch ONZ45P



	Number of contact chambers/Shaft length 100 mm									
	1	2	3	4	5	6	7	8	9	10
L ₁	65	96	127	158	189	220	251	282	313	344
L	165	196	227	258	289	320	351	382	413	444

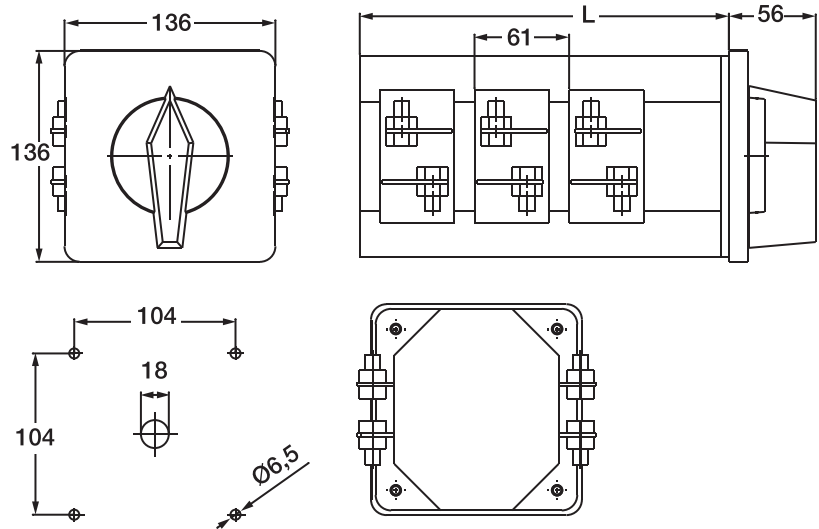
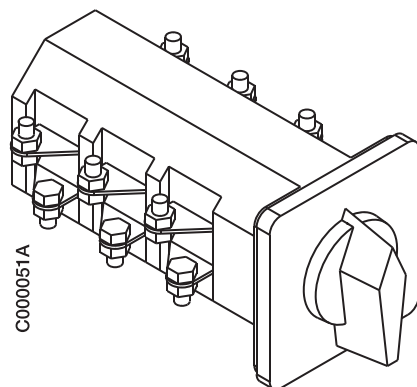


CamLine

Rotary cam switches

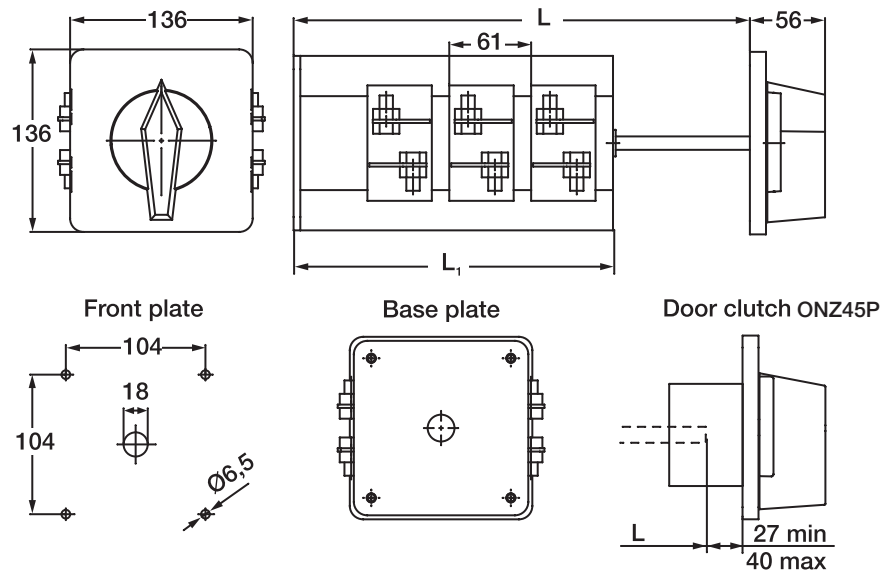
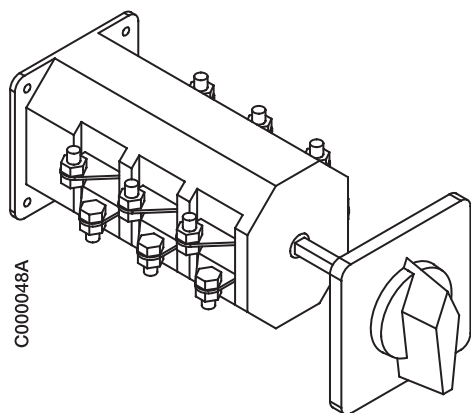
Dimension drawings, OL200

OL200 door mounted



	Number of contact chambers									
	1	2	3	4	5	6	7	8	9	10
L	120	181	242	303	364	425	486	547	608	669

OL200 base mounted - to be specified by Camweb configurator



	Number of contact chambers/example: Shaft length 100 mm									
	1	2	3	4	5	6	7	8	9	10
L ₁	120	181	242	303	364	425	486	547	608	669
L	220	281	342	403	464	525	586	647	708	769

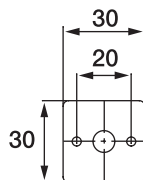


CamLine

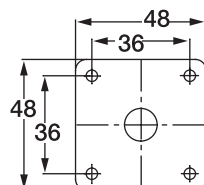
Rotary cam switches

Dimension drawings, front plates

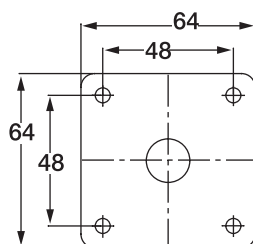
Front plates, sizes and door drillings



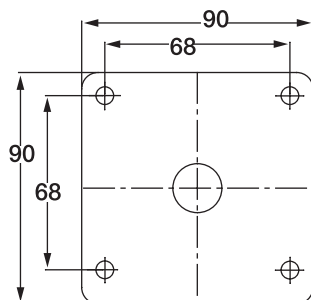
Size 30x30
OM



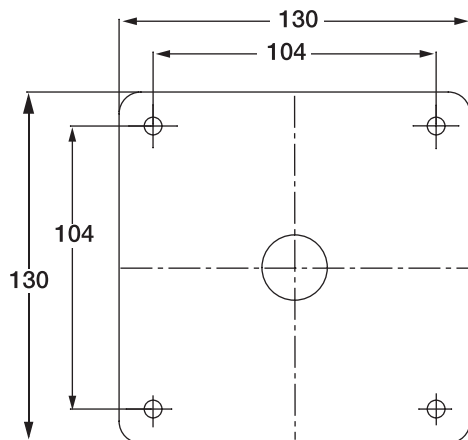
Size 48x48
ON



Size 64x64
ON
OL 40



Size 90x90
OL 80...160



Size 130x130
OL 200

C000033

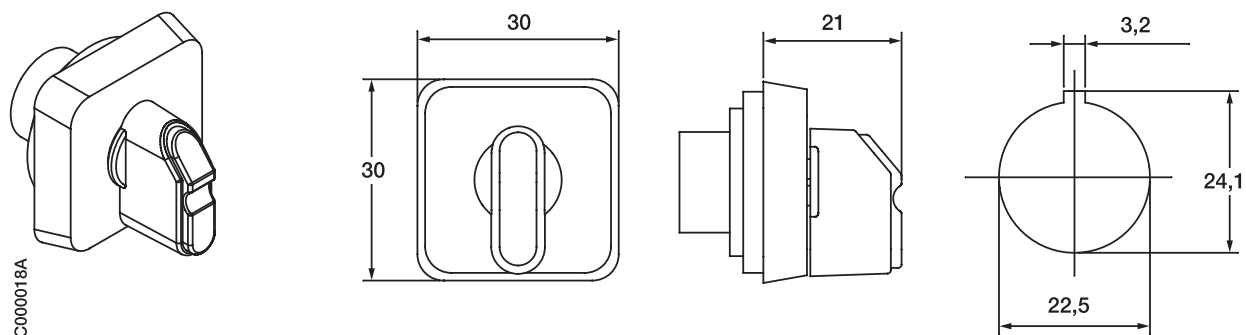


CamLine

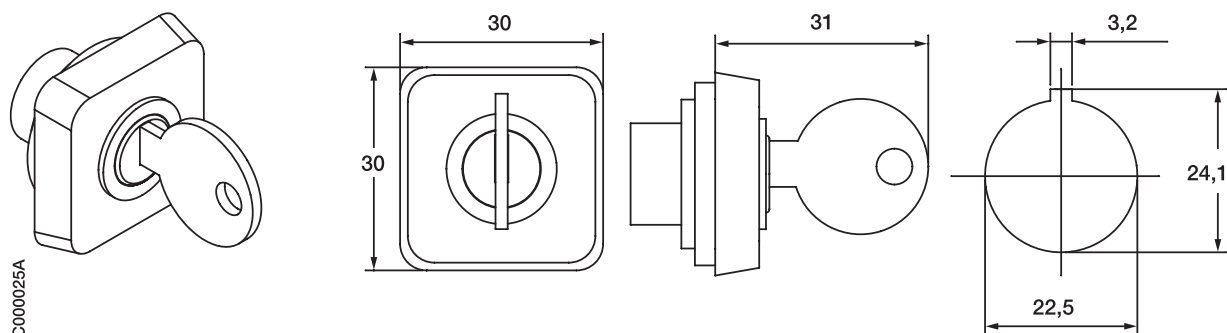
Rotary cam switches

Dimension drawings, handles

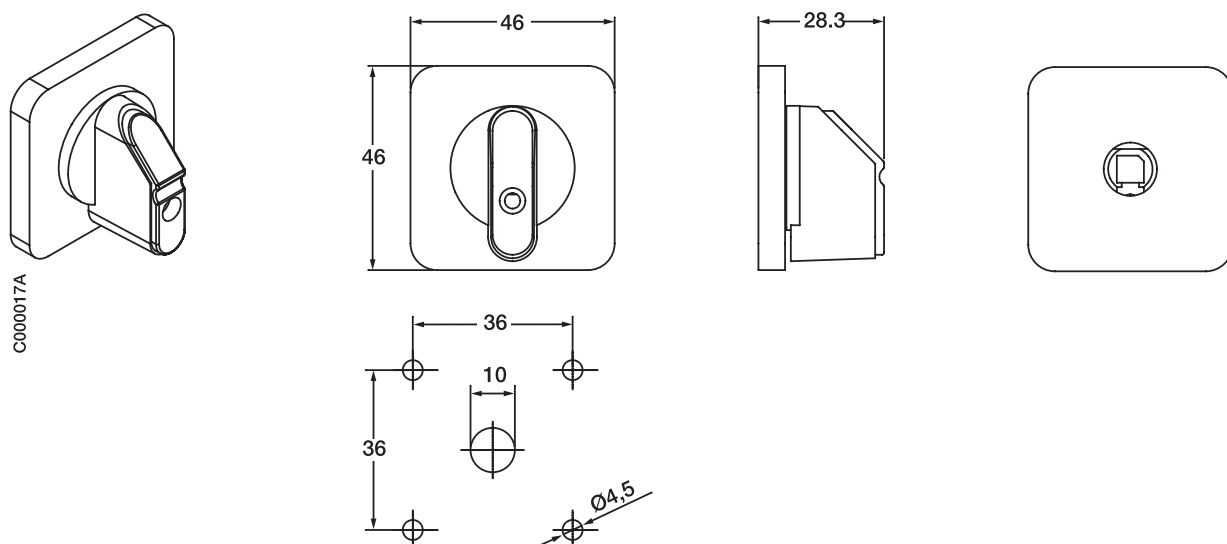
Snap-on handle for OM, type OMP_



Snap-on key operated handle for OM - to be specified by Camweb configurator



Screw mounted handle ON and OL40 - to be specified by Camweb configurator



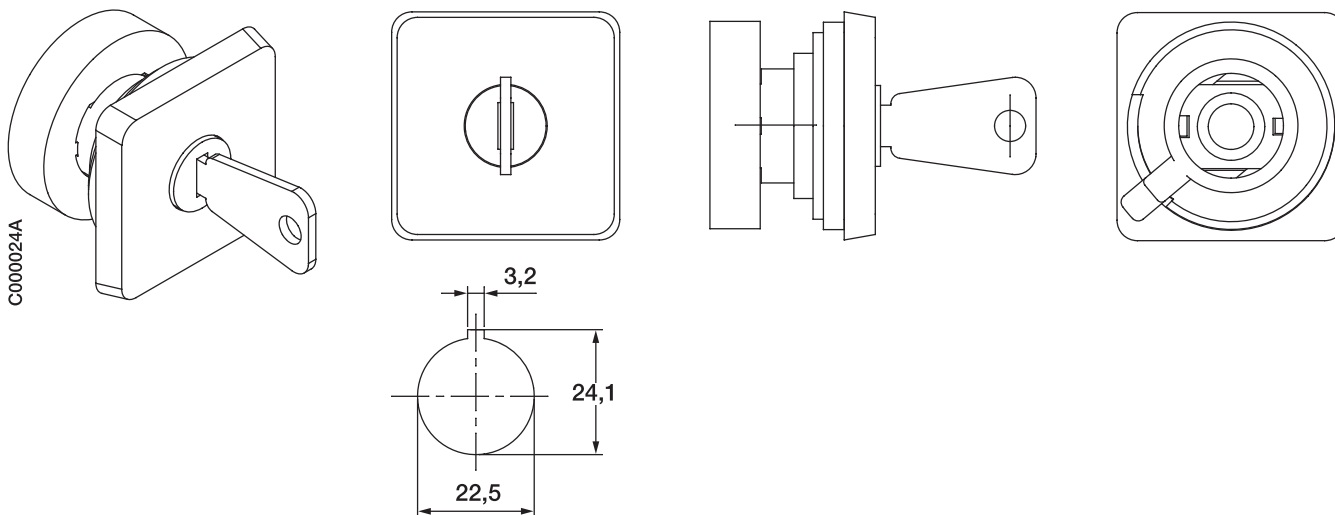


CamLine

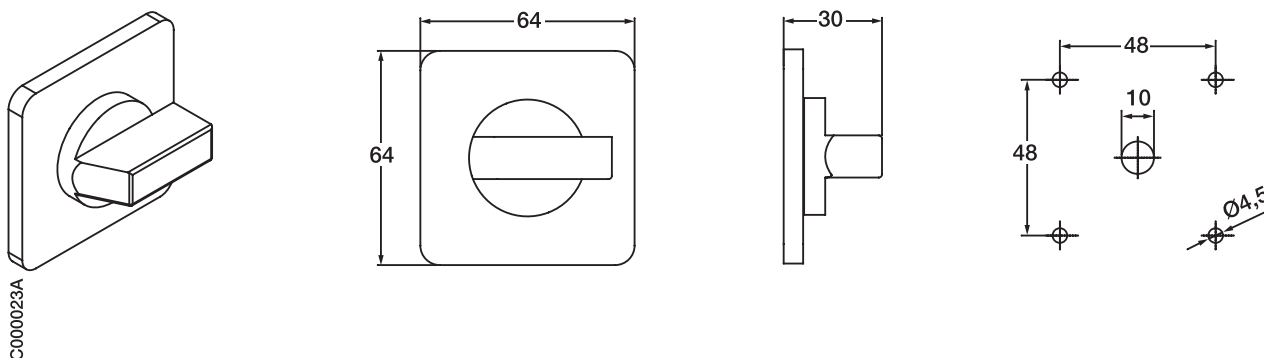
Rotary cam switches

Dimension drawings, handles

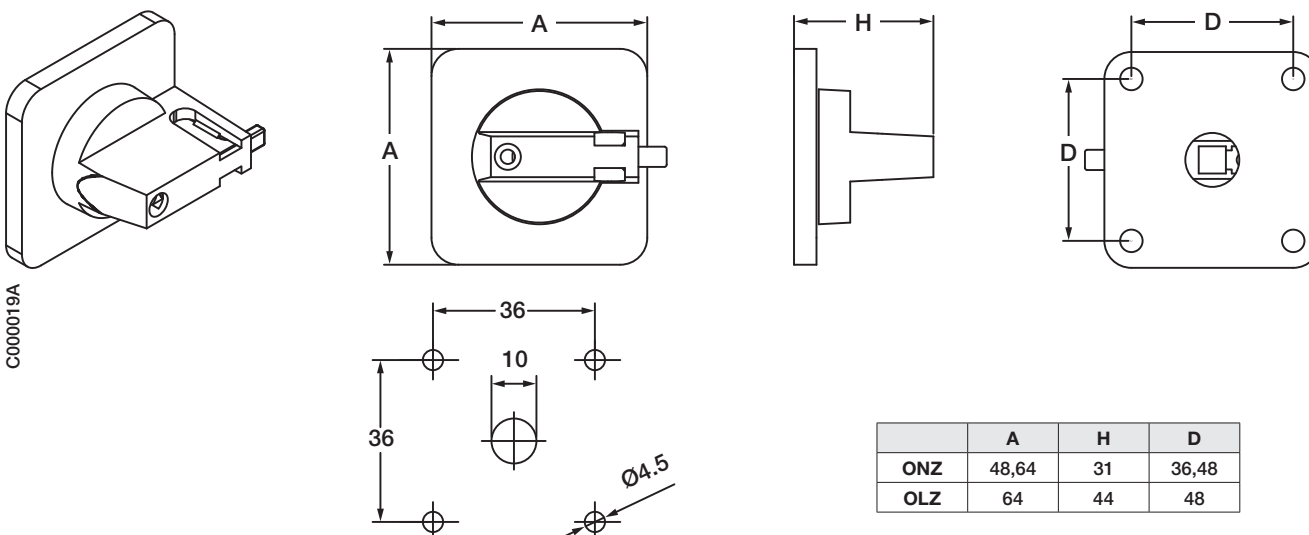
Snap-on key operated handle for ON - to be specified by Camweb configurator



Screw mounted large handle option for ON and OL40 - to be specified by Camweb configurator



Padlockable handle knob for ON and OL40, type ONZ20_ (also suitable for 64x64 handle)



	A	H	D
ONZ	48,64	31	36,48
OLZ	64	44	48



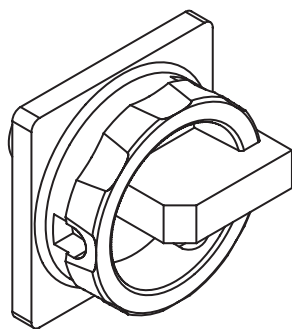
CamLine

Rotary cam switches

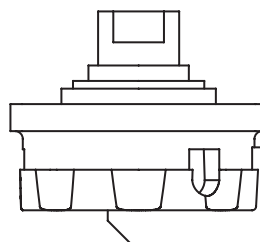
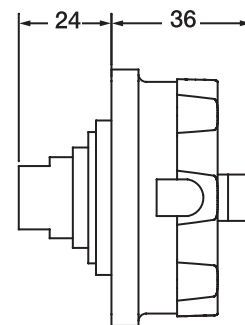
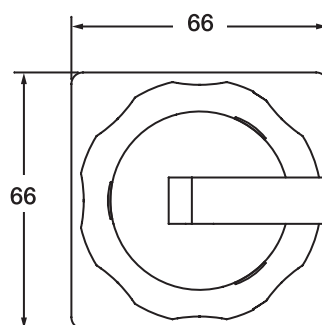
Dimension drawings, handles

Round padlockable snap-on mounted handle for ON and OL40

- to be specified by Camweb configurator (Type P3)

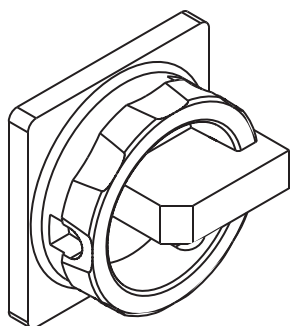


C000049A

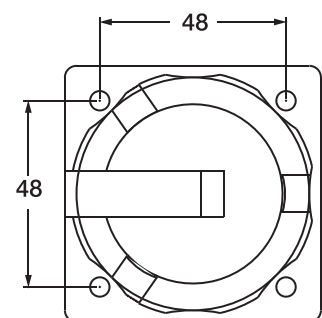
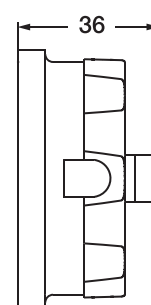
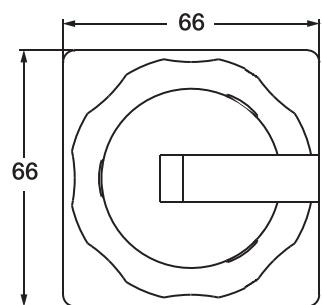


Shaft size 6mm

Round padlockable screw mounted handle for ON and OL40, type ONZ331P_ (Type R3)



C000022A



Shaft size 6 mm



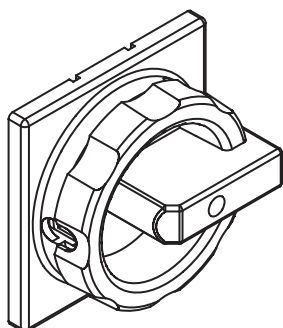
CamLine

Rotary cam switches

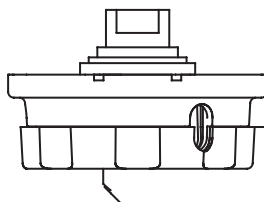
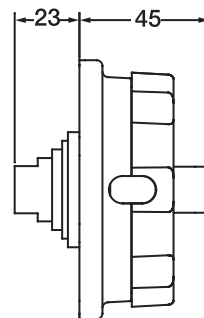
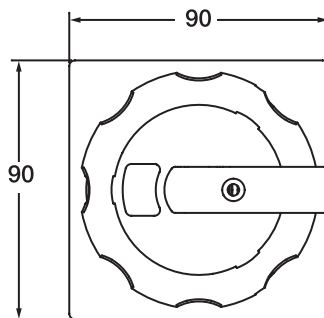
Dimension drawings, handles

Round padlockable snap-on mounted handle for OL80, OL125 and OL160

- to be specified by Camweb configurator (Type P3)

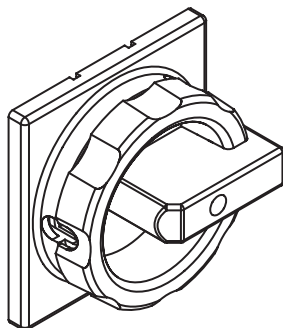


C000050A

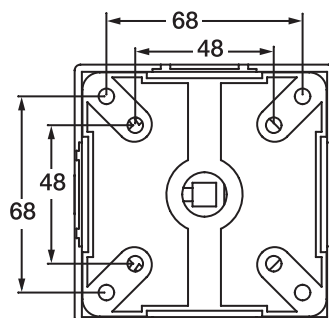
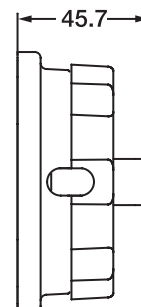
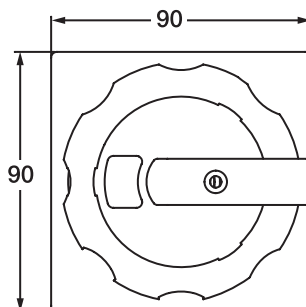


Round padlockable screw mounted handle for OL80, OL125 and OL160, type OLZ332R_

- Type R3 to be specified by the Camweb configurator



C000021A



Shaft size 8 mm

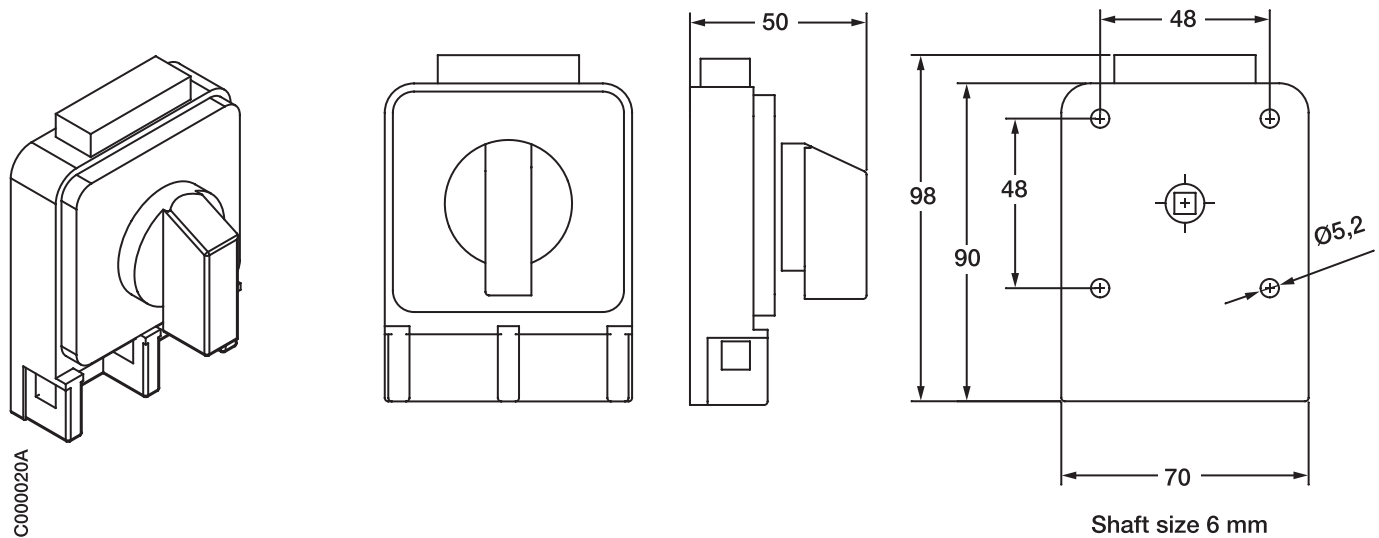


CamLine

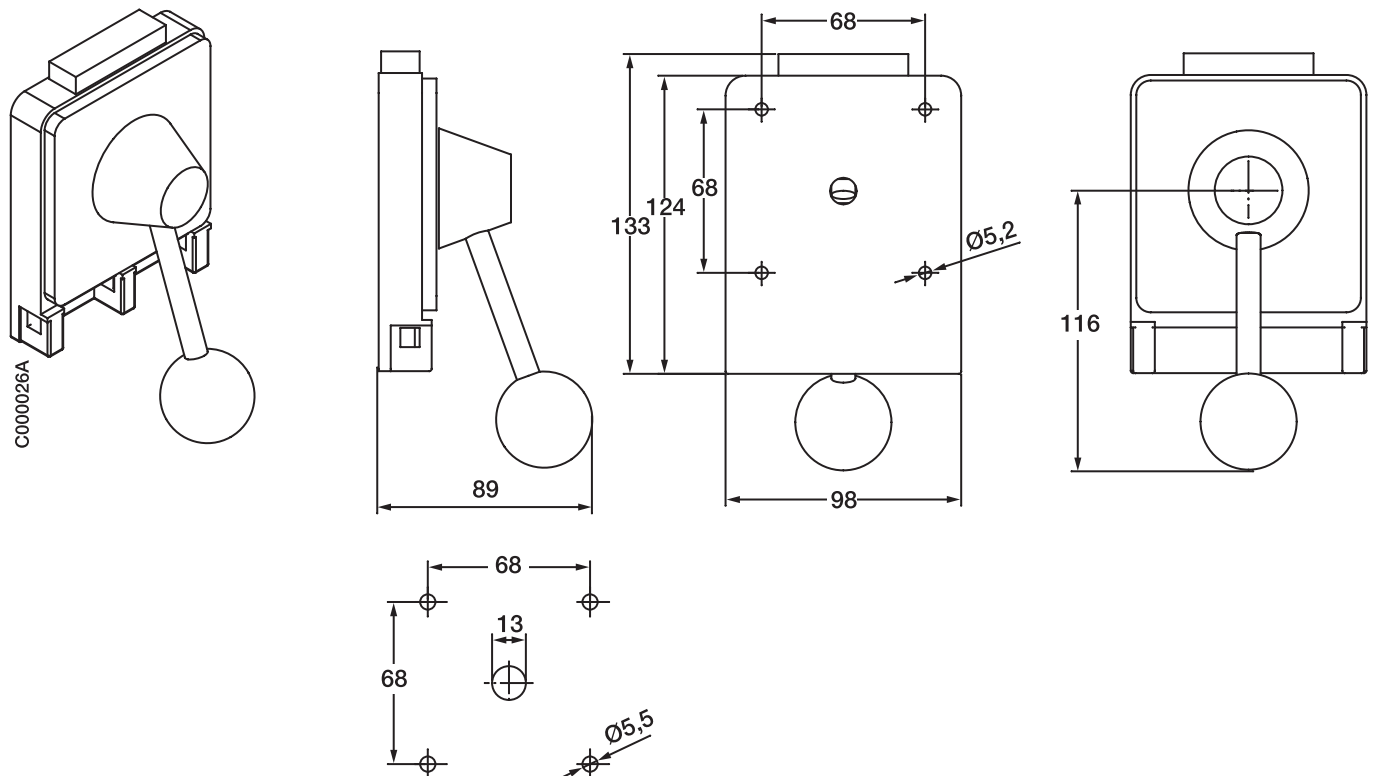
Rotary cam switches

Dimension drawings, handles

Square padlockable handle for ON and OL40 -
to be specified by Camweb configurator (type R5)



Square padlockable handle for OL80, OL125, OL160 and OL200
- to be specified by Camweb configurator (Type R5)





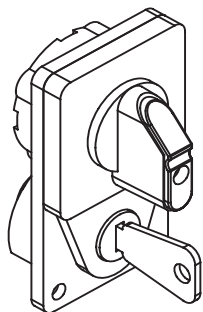
CamLine

Rotary cam switches

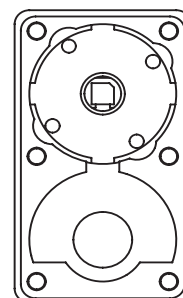
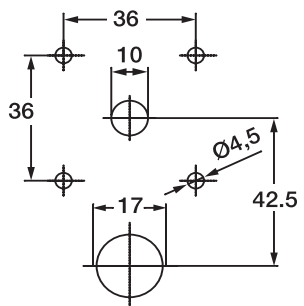
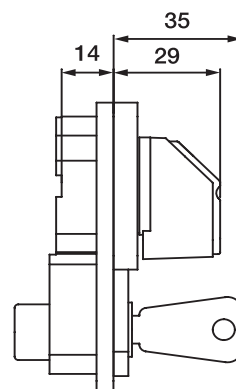
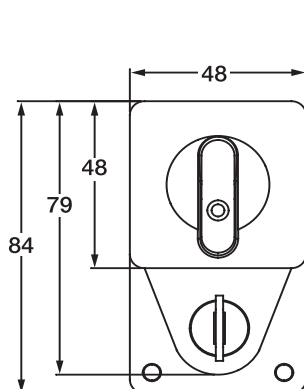
Dimension drawings, handles

Key interlocked handle for ON and OL40, front plate size 48x48

- to be specified by Camweb configurator (Type Q)

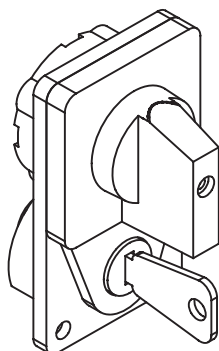


C000016A

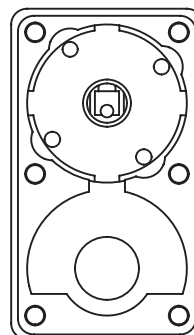
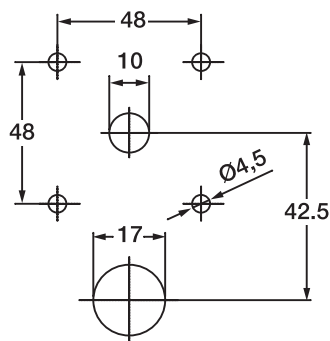
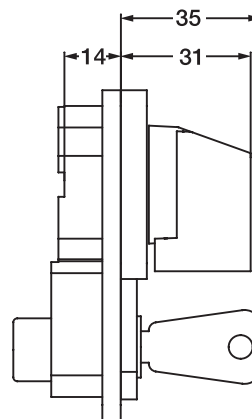
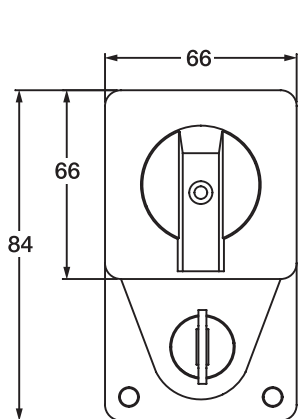


Key interlocked handle for ON and OL40, front plate size 64x64

- to be specified by Camweb configurator (Type Q)



C000040A



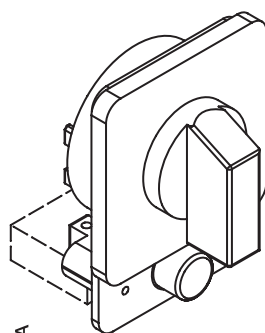


CamLine

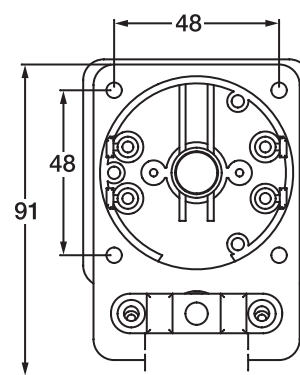
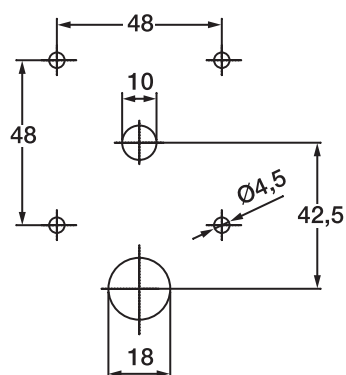
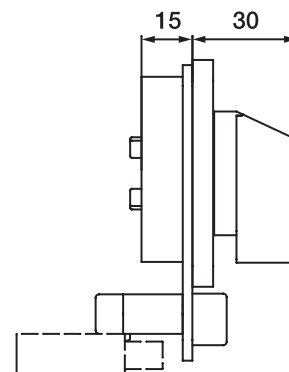
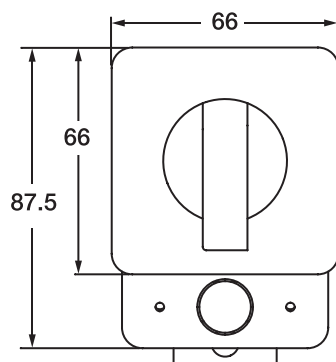
Rotary cam switches

Dimension drawings and handles

Push button interlock handle for ON and OL40 -
to be specified by Camweb configurator (Type U)

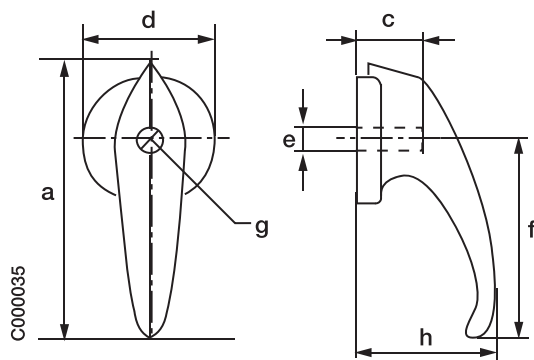


C000015A



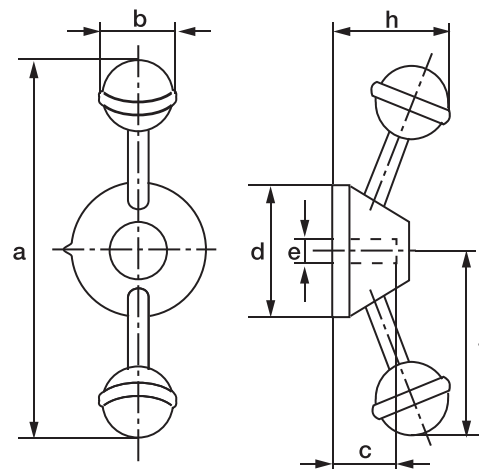
Pistol and double lever handles

OLZ2R_, OLZ2R



C000035

OLZ3D_



	a	b	c	d	e	f	g	h	y
OLZ2R_	112	40	21	50	8 [□]	80	114	50	9
OLZ3R_	141	54	26	77	10 [□]	145	145	66	14
OLZ3D_	252	40	28	77	10 [□]	126	-	56	10



CamLine

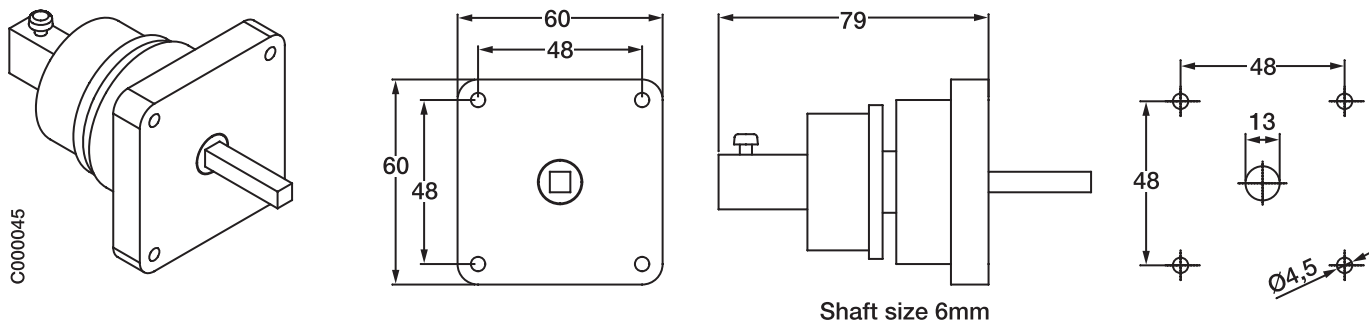
Rotary cam switches

Dimension drawings, door clutch

Door clutch, interlock for hinged door, for ON and OL40 (ONZ45P)

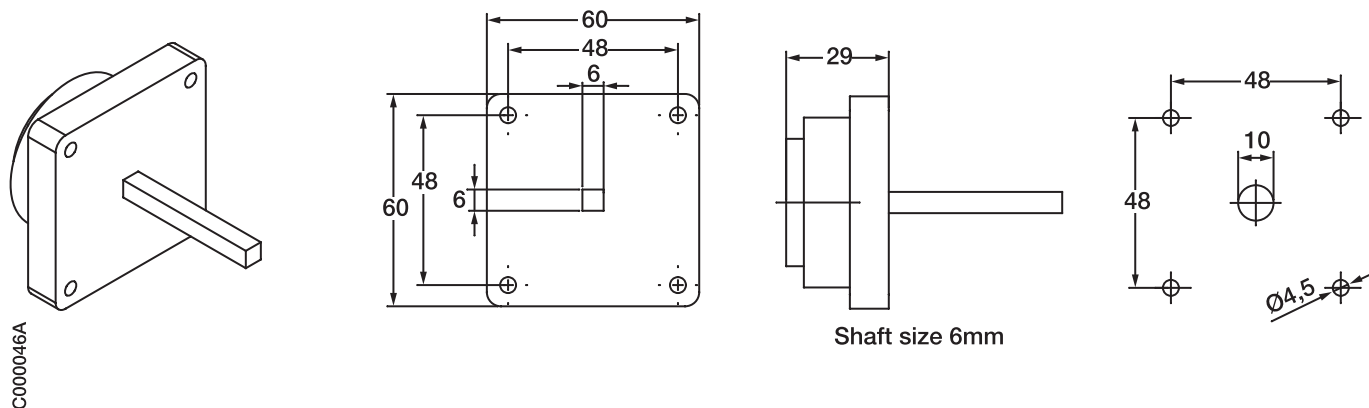
- to be specified by Camweb configurator

- to lock the panel when the switch is in the ON position



Door clutch, interlock for hinged door, for OL40 (ONZ45P) - to be specified by Camweb configurator

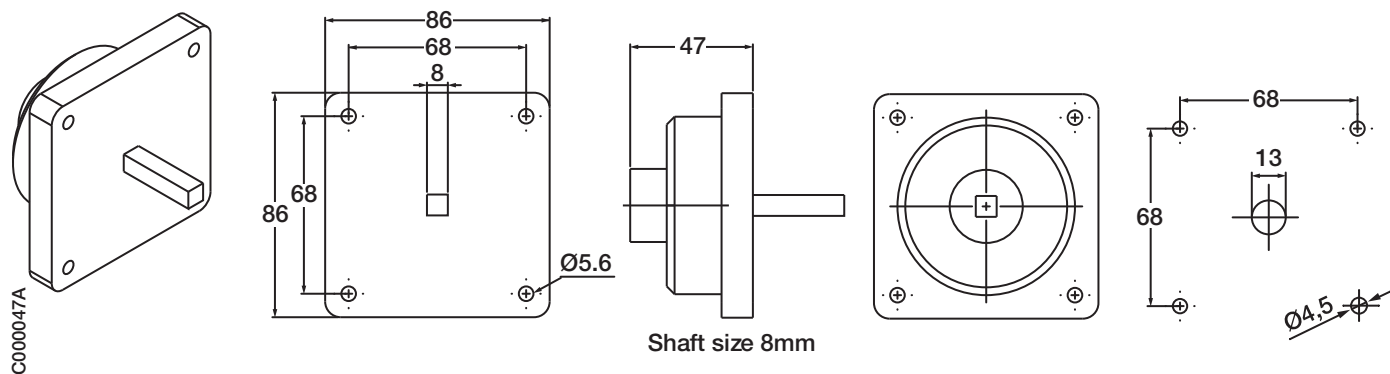
- to lock the panel when the switch is in the ON position



Door clutch, interlock for hinged door, for OL80, OL125, OL160 (OLZ652) and OL200 (OLZ653)

- to be specified by Camweb configurator

- to lock the panel when the switch is in the ON position





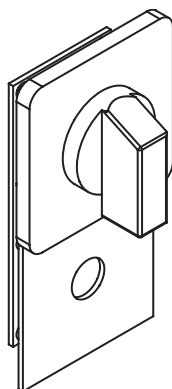
CamLine

Rotary cam switches

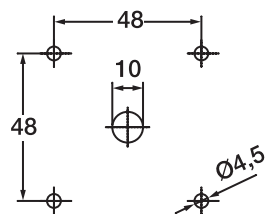
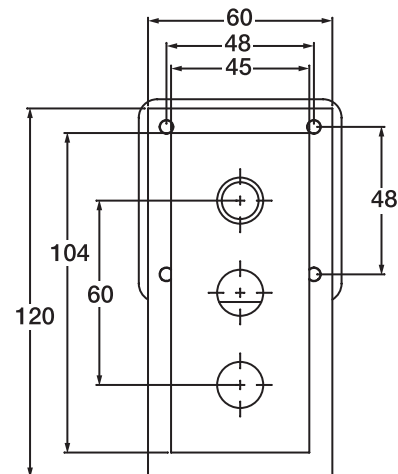
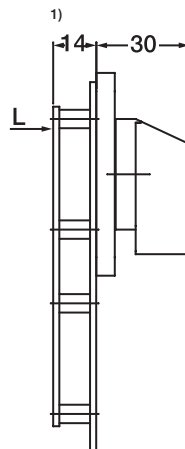
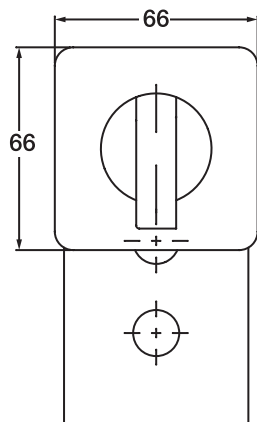
Dimension drawings, double gang

Double gang (Tandem) drive for ON, standard handle

- to be specified by Camweb configurator

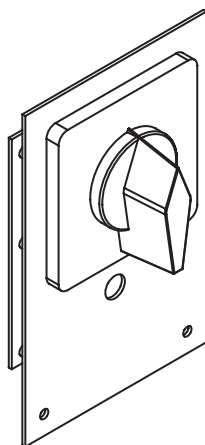


C000041A

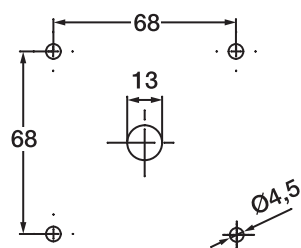
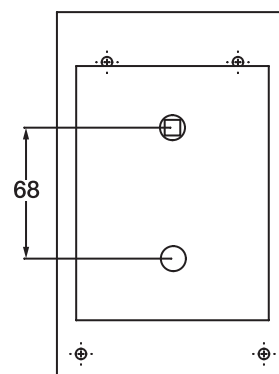
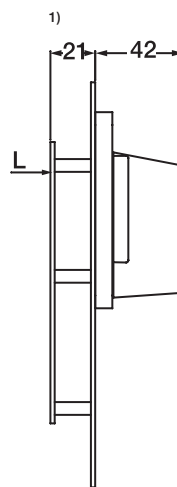
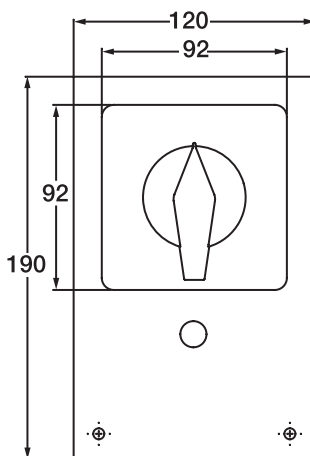


Double gang (Tandem) drive for OL40, standard handle

- to be specified by Camweb configurator



C000042A



¹⁾ Add the dimension L of the screw mounted cam switch for the total depth.

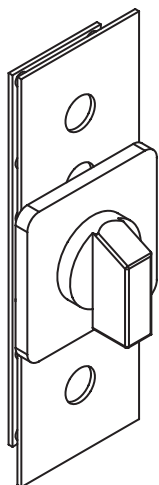


CamLine

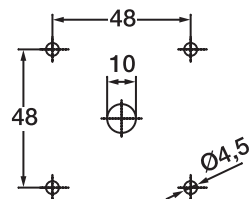
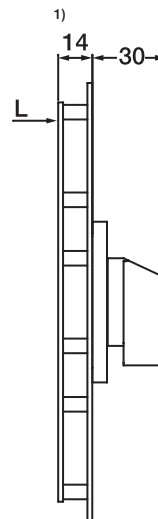
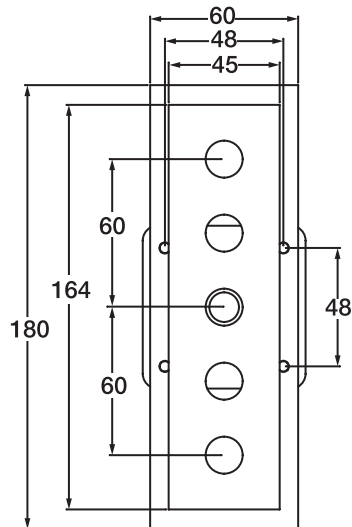
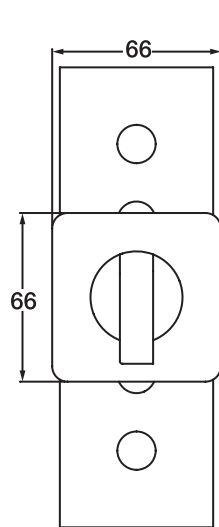
Rotary cam switches

Dimension drawings, triple gang

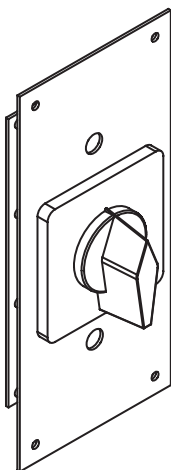
Triple gang drive for ON, standard handle - to be specified by Camweb configurator



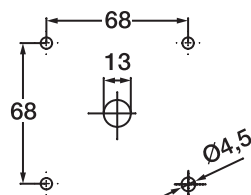
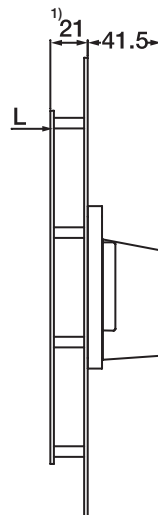
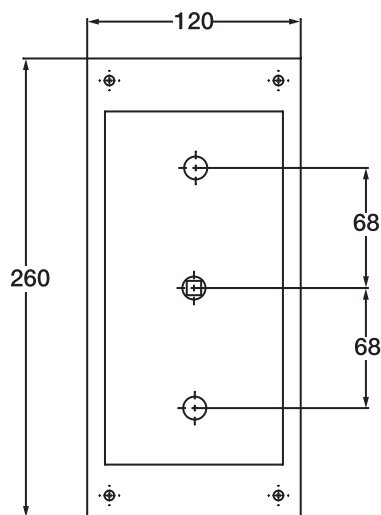
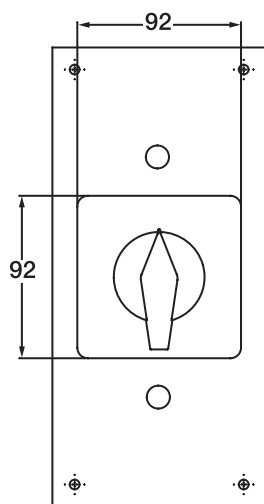
C000043A



Triple gang drive for OL40, standard handle - to be specified by cam web configurator



C000044A



¹⁾ Add the dimension L of the screw mounted cam switch for the total depth.



CamLine Enclosed rotary cam and main switches

Contents:

Enclosed rotary cam and main switches

Ordering information

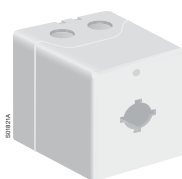
Enclosed cam switches.....	56
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Enclosures.....	56
Disconnect switches for enclosures OTC_.....	57
Base mounted disconnect switches.....	57
Door mounted disconnect switches	57
Accessories	57
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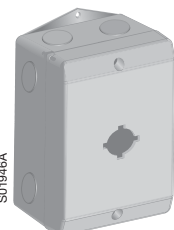
CamLine

Enclosed rotary cam switches and main switches

Ordering details



OTC4_M25



OTC36NPT3/4

Enclosed cam switches

The type and the ordering number are for one piece. Neutral and ground terminal, included.

Number of poles	Function	Size of ¹⁾ enclosure	Catalogue number	List price
ON-OFF switches, IP65, NEMA 4X				
1	0 - 1	160x100x80	ONA1EPB	
2	0 - 1	160x100x80	ONA2EPB	
3	0 - 1	160x100x80	ONA3EPB	
4	0 - 1	160x100x80	ONA4EPB	
ON - OFF switches, padlockable handle, IP65, NEMA 4X				
1	0 - 1	160x100x80	ONA1EZB	
2	0 - 1	160x100x80	ONA2EZB	
3	0 - 1	160x100x80	ONA3EZB	
4	0 - 1	160x100x80	ONA4EZB	
ON - OFF switches, key type, IP54, NEMA 1				
1	0 - 1	160x100x80	ONA1EKB	
3	0 - 1	160x100x80	ONA3EKB	
Change-over switches				
1	1 - 0 - 2	160x100x80	ONU1EPB	
2	1 - 0 - 2	160x100x80	ONU2EPB	
Reversing switches				
3	1 - 0 - 2	160x100x80	ONW3EPB	

Enclosures

The enclosures can accommodate cam switches for door mounting and OT-switches for door mounting and base mounting. Neutral and earth terminal, included.

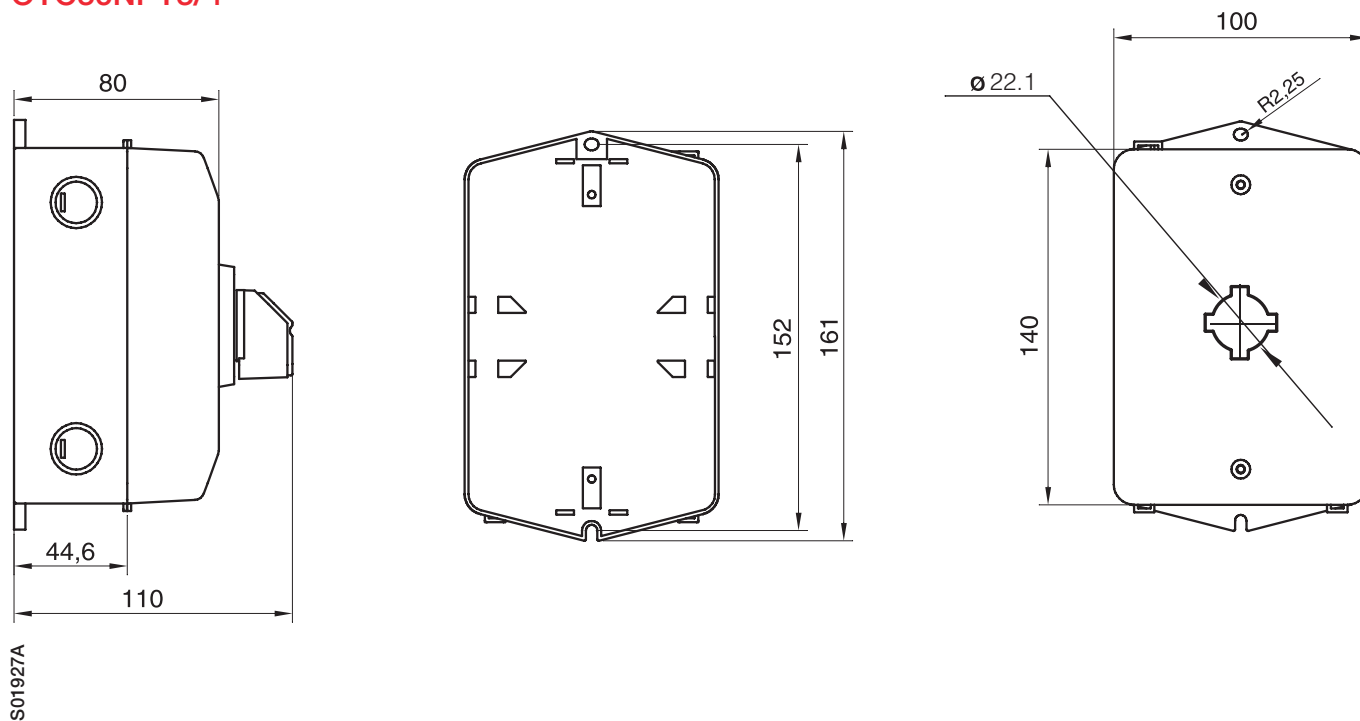
Suitable cam switches	Protection - Class	Size of enclosure	Catalogue number	List price
ON-OM: 10 contacts, 5 stages, OL40: 6 contacts, 3 stages				
Enclosure	IP 65	96x96x108	OTC46M25	
ON-OM: 6 contacts, 3 stages, wide, OL: 4 contacts, 2 stages				
Enclosure	NEMA 4X	160x100x80	OTC36NPT3/4	
Mounting plate require for assembly of base mounted OT16...32E			VP3G6	

¹⁾ The height without handle.
Special enclosed cam switches configured by the Camweb tool.

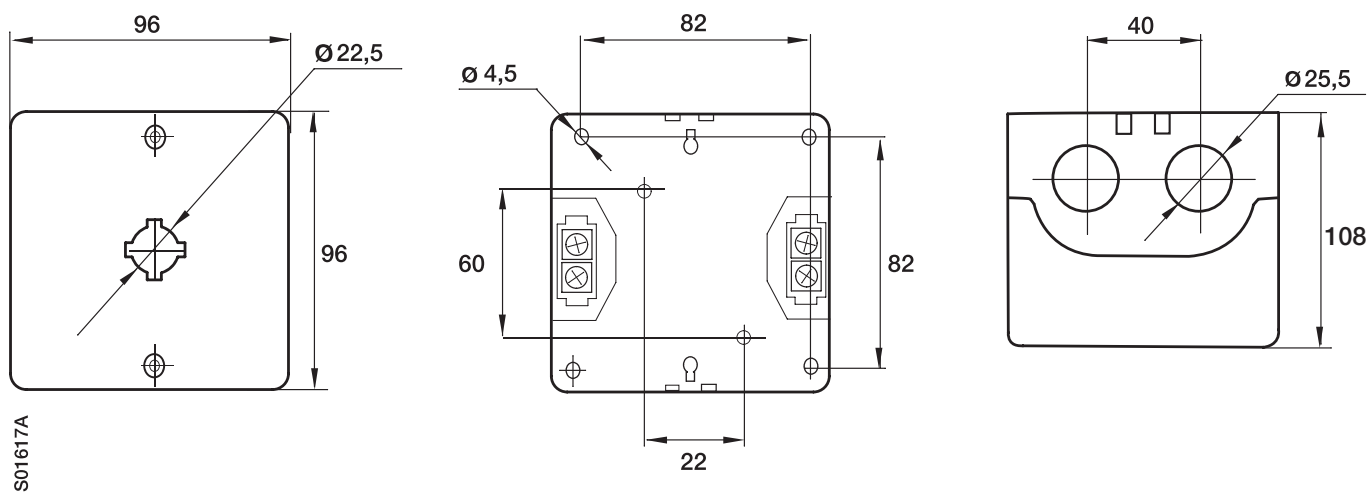


CamLine Enclosed rotary cam switches Dimension drawings

OTC36NPT3/4



OTC46M25





Type

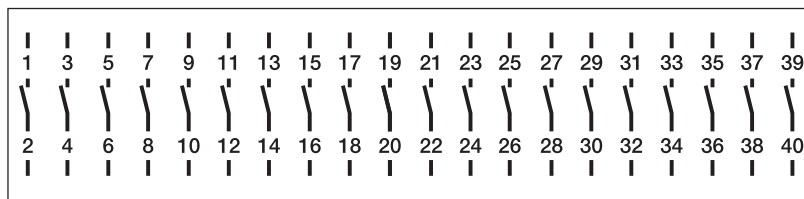
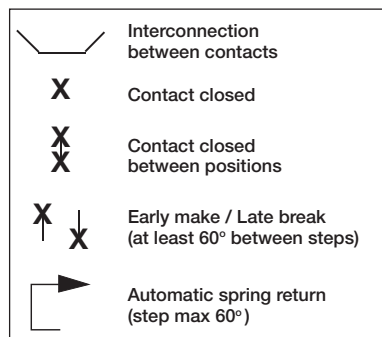
Project number

Customer's number

Quantity: pcs

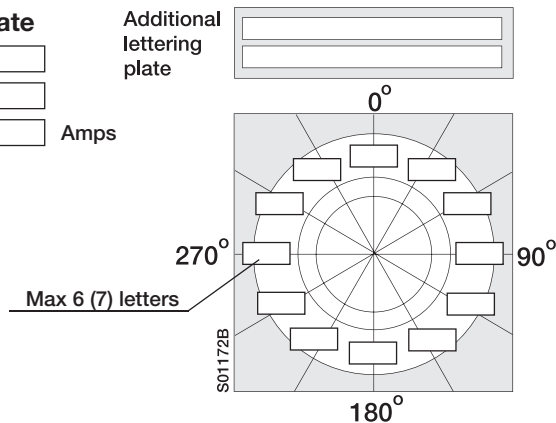
Handled by:

Date:

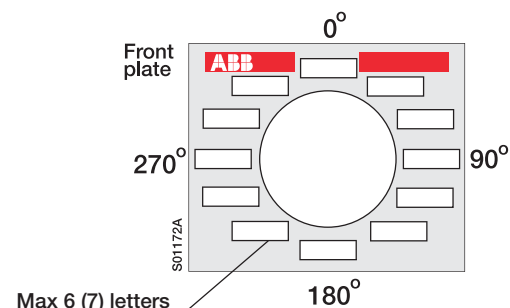
[illegible]

	Normal	Padlockable	Key operated _K	Enclosed _E	Cylinder locking	Pushbutton locking	Comments:
Black _B							
Grey _G							
Red-yellow _RY							

Additional
lettering
plate

OL Amps

Max 20 contacts (ON)
16 contacts (OM)

ON M, Modular ☐

Max 3 chambers = 6 contacts



Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Quick Information

Put a checkmark in the boxes below and fax it to your nearest ABB office to receive more information.

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Control Products

- ☐ AC & DC Contactors
- ☐ Cam Switches
- ☐ Definite Purpose Contactors
- ☐ Drive Contactors
- ☐ Electronic Timers
- ☐ Lighting Contactors
- ☐ Limit Switches
- ☐ Magnetic Starters
- ☐ Manual Motor Starters
- ☐ PLC
- ☐ Pushbuttons, Stacklights and Beacons
- ☐ Relays
- ☐ Safety and Monitoring Relays
- ☐ Softstarters
- ☐ Wiring Ducts

Circuit Protective Devices

- ☐ Arc Guard Monitor
- ☐ Disconnect Switches, Fusible and Non-Fusible
- ☐ Low Voltage Power Circuit Breakers
- ☐ Molded Case Circuit Breakers
- ☐ Supplementary Protectors

Power Quality Products

- ☐ Active Filter
- ☐ Anti-Resonance Capacitor Banks
- ☐ Automatic Capacitor Banks
- ☐ Dynacomp
- ☐ Fixed Capacitor Banks
- ☐ Harmonic Filter (shunt)
- ☐ Individual Capacitors
- ☐ Surge Capacitor

Entrelec Products

- ☐ Analog Converters
- ☐ Digital Converters
- ☐ Industrial pluggable relays & Optos
- ☐ Logic Control relay
- ☐ Overvoltage protection
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- ☐ PLB connectors
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- ☐ Remote Input/Output
- ☐ Rotary switches
- ☐ Terminal Blocks
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Fax: +1 403-278-8232

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