SIEMENS

Data sheet 3RT2035-3AG20

power contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC, 110 V AC 50 / 60 Hz, 3-pole, Size S2, Spring-type terminal



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S2
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms

40.5 m / 5 mm 44.0 m / 40 mm
18.5g / 5 ms, 11.6g / 10 ms
10 000 000
5 000 000
10 000 000
К
Q
2 000 m
-25 +60 °C
-55 +80 °C
3
3
690 V
60 A
60 A
55 A
40 A
40 A
40 A
24 A
35 A
52.8 A
33.2 A
36.5 A

 up to 400 V for current peak value n=20 rated value 	36.5 A
 up to 500 V for current peak value n=20 rated value 	36.5 A
 up to 690 V for current peak value n=20 rated value 	24 A
● at AC-6a	
 up to 230 V for current peak value n=30 rated value 	24.2 A
 up to 400 V for current peak value n=30 rated value 	24.2 A
 up to 500 V for current peak value n=30 rated value 	24.2 A
 up to 690 V for current peak value n=30 rated value 	24 A
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	16 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
Operating power	
• at AC-1	
— at 230 V rated value	23 kW
— at 230 V at 60 °C rated value	21 kW
— at 400 V rated value	39 kW
— at 400 V at 60 °C rated value	36 kW
— at 690 V rated value	68 kW
— at 690 V at 60 °C rated value	62 kW
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	11.6 kW
• at 690 V rated value	16.8 kW
Thermal short-time current limited to 10 s	400 A
Power loss [W] at AC-3 at 400 V for rated value of	2.2 W
the operating current per conductor	
No-load switching frequency	5 000 4 lb
• at AC	5 000 1/h
Operating frequency	4 200 4/b
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h

• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h

Number of NC contacts for auxiliary contacts • instantaneous contact 1 Number of NO contacts for auxiliary contacts • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A	Control circuit/ Control	
■ at 50 Hz rated value ■ at 60 Hz rated value ■ 110 V Operating range factor control supply voltage rated value of magnet coil at AC ■ at 50 Hz ■ at 60 Hz □ at 50 Hz ■ at 60 Hz □ at 60 Hz □ at 50 Hz ■ at 60 Hz □ at	Type of voltage of the control supply voltage	AC
• at 60 Hz rated value Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 188 V-A Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Osa Opening delay • at AC Opening dielay • at AC In 80 ms Opening dielay • at AC Opening or of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact In Standard A1 - A2 Operating current at AC-12 maximum Operating current at AC-15 • at 250 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value	Control supply voltage at AC	
Operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 • at 50 Hz 0.85 1.1 • Apparent plck-up power of magnet coil at AC 188 V-A • at 50 Hz 188 V-A • Inductive power factor with closing power of the coil 0.69 • at 50 Hz 0.65 • Apparent holding power of magnet coil at AC 17.2 V-A • at 50 Hz 16.5 V-A • at 60 Hz 16.5 V-A Inductive power factor with the holding power of the coil 0.36 • at 50 Hz 0.36 • at 60 Hz 0.39 Closing delay 0.39 • at 60 Hz 10 80 ms Closing delay 10 80 ms • at AC 10 80 ms Opening delay 10 20 ms • Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 Number of NC contacts for auxiliary contacts 1 • instantaneous contact 1 • instantaneous contact 1 • at 230 V rated value 10 A • at 400 V rate	• at 50 Hz rated value	110 V
value of magnet coil at AC	• at 60 Hz rated value	110 V
• at 50 Hz • at 60 Hz • at 60 Hz Apparent plok-up power of magnet coil at AC • at 50 Hz • at 60 Hz Is8 V-A Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Is8 V-A Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.36 • at 60 Hz Closing delay • at AC In 80 ms Closing delay • at AC Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber of NC contacts for auxiliary contacts • instantaneous contact Inturber o	Operating range factor control supply voltage rated	
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• at 50 Hz • at 60 Hz • at 60 Hz Inductive power factor with closing power of the coll • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 17.2 VA • at 60 Hz 16.5 VA Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 10.36 • at 60 Hz 10.38 10.39 Closing delay • at AC 10 80 ms Opening delay • at AC 10 18 ms Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 10 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A 10 2A	● at 60 Hz	0.85 1.1
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• at 50 Hz • at 60 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Closing delay • at AC Opening delay • at AC Arcing time Control version of the switch operating mechanism Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact I Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value	● at 60 Hz	188 V·A
at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 17.2 V-A at 60 Hz 16.5 V-A Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.36 at 60 Hz 0.39 Closing delay at AC 10 80 ms Opening delay at AC 10 18 ms Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts instantaneous contact 1 Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 60 Hz 17.2 V-A 16.5 V-A 10 80 ms 10 18 ms Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 at 230 V rated value 3 A at 500 V rated value 2 A	Inductive power factor with closing power of the coil	
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• at 50 Hz • at 60 Hz 117.2 V·A 16.5 V·A Inductive power factor with the holding power of the coll • at 50 Hz • at 60 Hz 0.36 • at 60 Hz 0.39 Closing delay • at AC 10 80 ms Opening delay • at AC 110 18 ms Arcing time 110 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 1 Number of NO contacts for auxiliary contacts • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value	● at 60 Hz	0.65
• at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 0.36 • at 60 Hz Closing delay • at AC Opening delay • at AC Arcing time Control version of the switch operating mechanism Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact • instantaneous contact 1 Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	Apparent holding power of magnet coil at AC	
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coil ● at 50 Hz 0.36 ● at 60 Hz 0.39 Closing delay ● at AC 10 80 ms Opening delay • at AC ● at AC 10 18 ms Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts ● instantaneous contact 1 Number of NO contacts for auxiliary contacts 1 • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 10 A • at 230 V rated value 10 A • at 400 V rated value 3 A • at 500 V rated value 2 A	● at 60 Hz	16.5 V·A
■ at 50 Hz ■ at 60 Hz O.39 Closing delay ■ at AC 10 80 ms Opening delay ● at AC 10 18 ms Arcing time 10 20 ms Control version of the switch operating mechanism Control version of the switch operating mechanism Auxiliary circuit Number of NC contacts for auxiliary contacts ● instantaneous contact Instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 ● at 230 V rated value ● at 400 V rated value ● at 500 V rated value ● at 500 V rated value ● at 500 V rated value ○ at 500 V rated value	Inductive power factor with the holding power of the	
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● at AC Opening delay ● at AC Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts ● instantaneous contact Number of NO contacts for auxiliary contacts ● instantaneous contact 1 Operating current at AC-12 maximum Operating current at AC-15 ● at 230 V rated value ● at 400 V rated value ● at 500 V rated value ● 2 A	● at 60 Hz	0.39
Opening delay • at AC Arcing time 10 20 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 1 Number of NO contacts for auxiliary contacts • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • 2 A	Closing delay	
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Number of NC contacts for auxiliary contacts • instantaneous contact 1 Number of NO contacts for auxiliary contacts • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A	Control version of the switch operating mechanism	Standard A1 - A2
Number of NC contacts for auxiliary contacts • instantaneous contact 1 Number of NO contacts for auxiliary contacts • instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A	Auxiliary circuit	
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Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A	Number of NO contacts for auxiliary contacts	
Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A	• instantaneous contact	1
 at 230 V rated value at 400 V rated value at 500 V rated value 2 A 	Operating current at AC-12 maximum	10 A
 at 400 V rated value at 500 V rated value 2 A 	Operating current at AC-15	
• at 500 V rated value 2 A	• at 230 V rated value	10 A
	• at 400 V rated value	3 A
• at 690 V rated value 1 A	• at 500 V rated value	2 A
	• at 690 V rated value	1 A
Operating current at DC-12	Operating current at DC-12	

Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
● at 600 V rated value	0.1 A
• at 220 V rated value	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
Operating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	41 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
 for three-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
Contact rating of auxiliary contacts according to UL	A600 / P600

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125

A (415 V, 80 kA)

— with type of assignment 2 required

gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A

(415V,80kA)

• for short-circuit protection of the auxiliary switch

required

gG: 10 A (500 V, 1 kA)

Installation/ mounting/ dimensions

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
gp	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
 Side-by-side mounting 	Yes
Height	114 mm
Width	55 mm
Depth	130 mm
Required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
● for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)
Connectable conductor cross-section for main	
contacts	
finely stranded with core end processing	1 35 mm²
Connectable conductor cross-section for auxiliary contacts	
single or multi-stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm²
• finely stranded without core end processing	0.5 2.5 mm²

Type of connectable conductor cross-sections	
• for auxiliary contacts	
— single or multi-stranded	2x (0,5 2,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
• for auxiliary contacts	20 14

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
• with high demand rate acc. to SN 31920	73 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
• positively driven operation acc. to IEC 60947-5-	No
1	
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other



LRS









Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-3AG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AG20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AG20

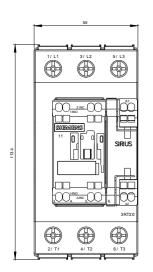
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3AG20&lang=en

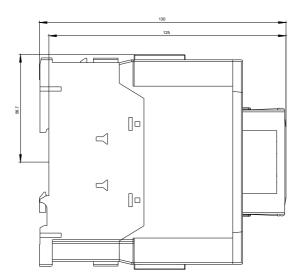
Characteristic: Tripping characteristics, I2t, Let-through current

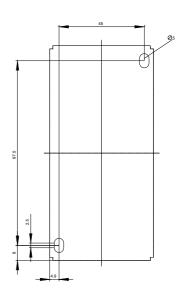
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AG20/char

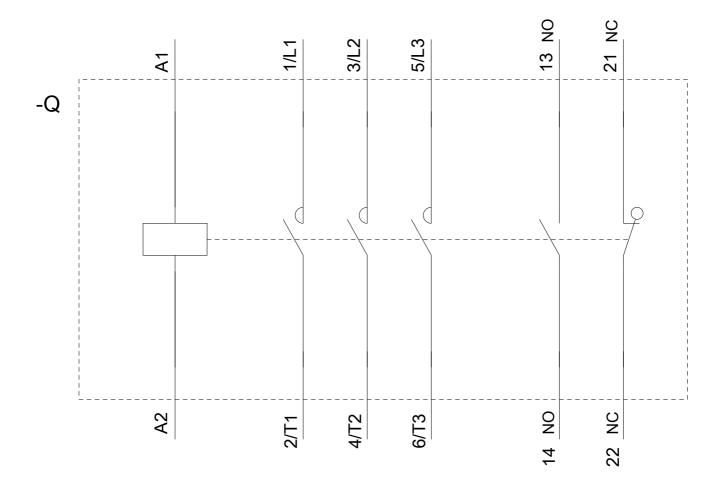
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AG20&objecttype=14&gridview=view1









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