

# Product data sheet

Specifications



## Motor circuit breaker, TeSys Deca frame 3, 3P, 73A, magnetic, rotary handle, EverLink terminals

GV3L73

### Main

Range	TeSys Deca
Product name	TeSys GV3
Product or component type	Motor circuit breaker
Device short name	GV3L
Device application	Motor protection
Trip unit technology	Magnetic

### Complementary

Poles description	3P
Network type	AC
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-2
Motor power kW	37 kW at 400/415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz
Breaking capacity	65 kA Icu at 230/240 V AC 50/60 Hz 50 kA Icu at 400/415 V AC 50/60 Hz 50 kA Icu at 440 V AC 50/60 Hz 12 kA Icu at 500 V AC 50/60 Hz 6 kA Icu at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz 60 % at 400/415 V AC 50/60 Hz 60 % at 440 V AC 50/60 Hz 50 % at 500 V AC 50/60 Hz 50 % at 690 V AC 50/60 Hz
Control type	Rotary handle
[In] rated current	73 A
Magnetic tripping current	1120 A
[Ith] conventional free air thermal current	73 A conforming to IEC 60947-2
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] rated insulation voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-1
Power dissipation per pole	8 W
Mechanical durability	50000 cycles

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>Electrical durability</b>	20000 cycles for AC-3 at 415 V In
<b>Tightening torque</b>	5 N.m - on screw clamp terminal
<b>Fixing mode</b>	35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws)
<b>Mounting position</b>	Horizontal Vertical
<b>Width</b>	55 mm
<b>Height</b>	132 mm
<b>Depth</b>	136 mm
<b>Net weight</b>	0.96 kg
<b>Colour</b>	Dark grey

## Environment

<b>Standards</b>	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC/EN 60335-1:Clause 30.2 IEC/EN 60335-2-40:Annex JJ
<b>Product certifications</b>	CCC UL CSA EAC LROS (Lloyds register of shipping) BV ABS DNV-GL UKCA
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Climatic withstand</b>	conforming to IACS E10
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Fire resistance</b>	960 °C conforming to IEC 60695-2-11
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Mechanical robustness</b>	Shocks: 5 Gn for 11 ms contactor open Shocks: 30 Gn for 11 ms contactor closed Vibrations: 4 Gn, 5...300 Hz
<b>Operating altitude</b>	3000 m

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6.800 cm
<b>Package 1 Width</b>	14.700 cm
<b>Package 1 Length</b>	15.900 cm
<b>Package 1 Weight</b>	1.012 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	120
<b>Package 2 Height</b>	73.500 cm
<b>Package 2 Width</b>	60.000 cm

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Package 2 Length	80.000 cm
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Package 2 Weight	134.920 kg
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## Contractual warranty

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Warranty	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint	30
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
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SCIP Number	2057c252-f956-4ac1-a3d9-75119bc8a000
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REACH Regulation	<a href="#">REACH Declaration</a>
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## Use Again

### Repack and remanufacture

End of life manual availability	<a href="#">End of Life Information</a>
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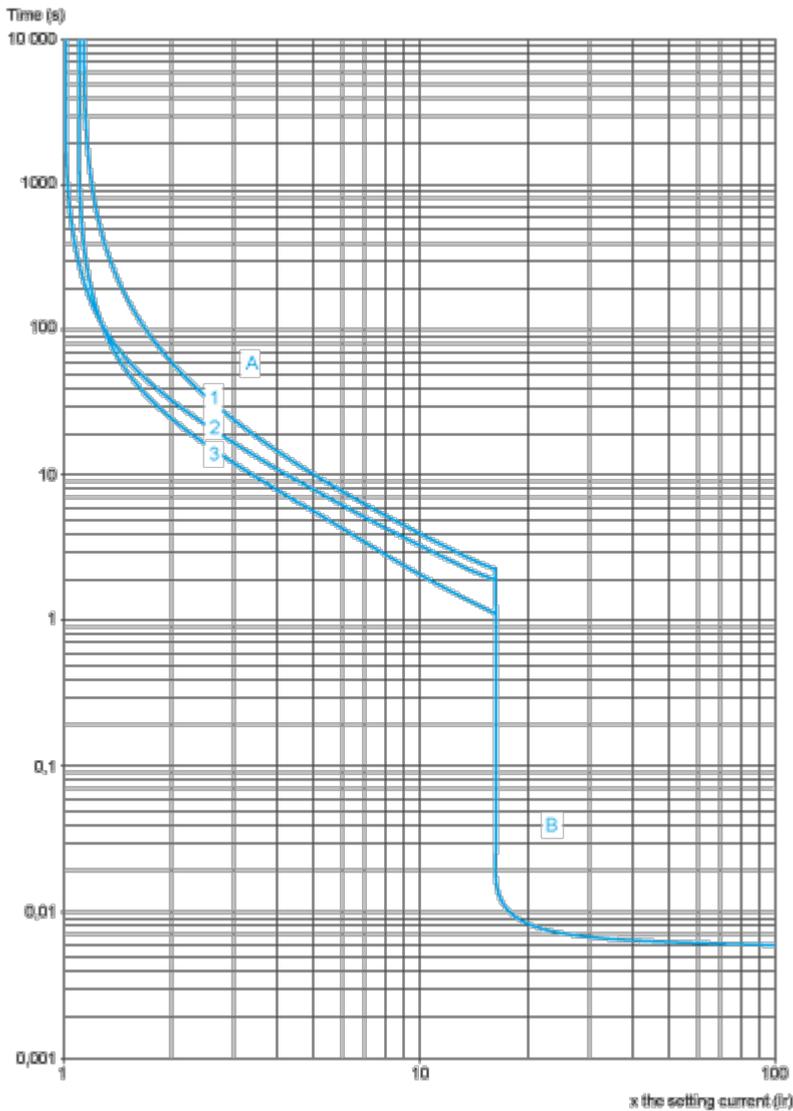
Take-back	No
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WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Performance Curves

**Tripping Curves for GV3L Combined with Thermal Overload Relay LRD33**

Average Operating time at 20 °C without Prior Current Flow

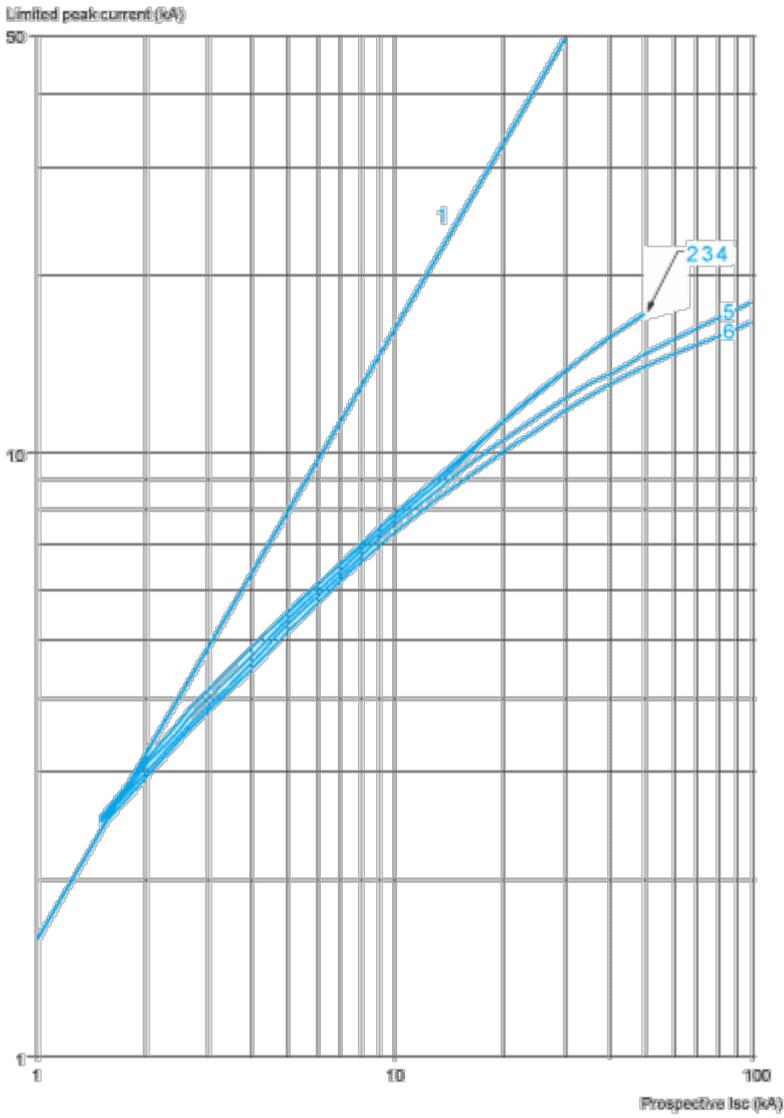


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- A Thermal overload relay protection zone
- B GV3L protection zone

**Current Limitation on Short-Circuit for GV3L (3-Phase 400/415 V)**

**Dynamic Stress**

I peak = f (prospective I<sub>sc</sub>) at 1.05 U<sub>e</sub> = 435 V

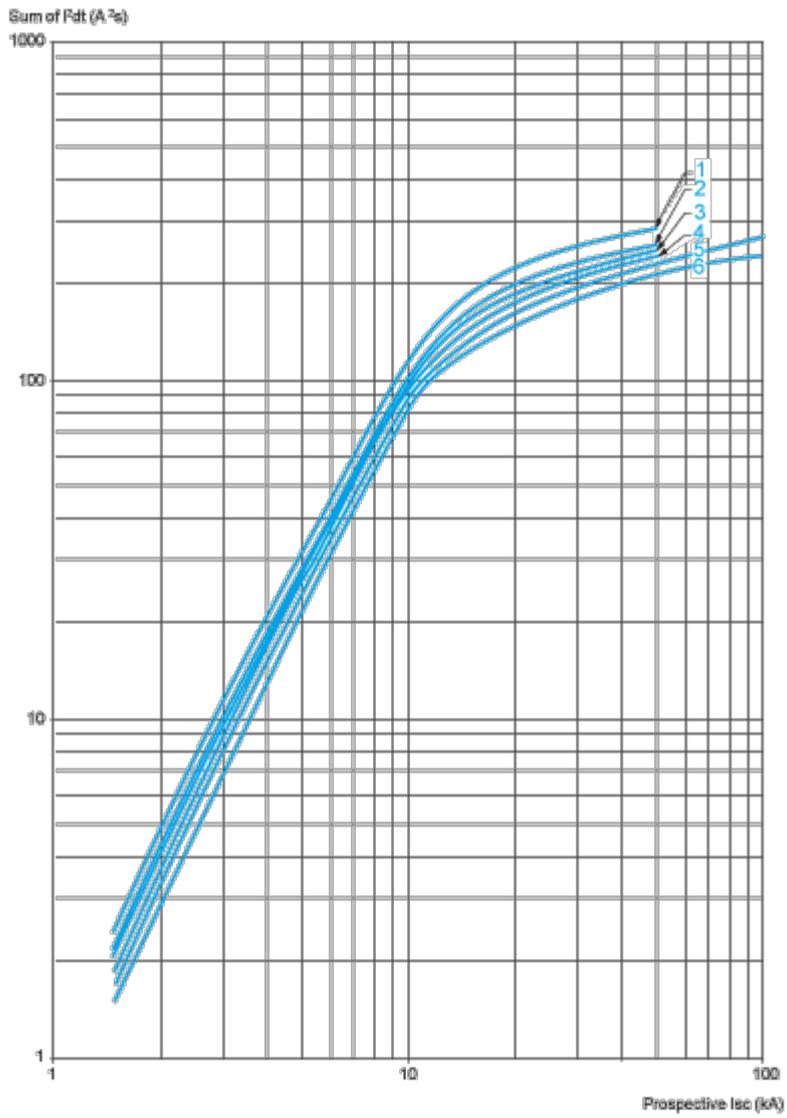


- 1 Maximum peak current
- 2 GV3L80 - GV3L73 - GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25

**Thermal Limit on Short-Circuit for GV3L**

Thermal Limit in A<sup>2</sup>s

Sum of I<sup>2</sup>dt = f (prospective Isc) at 1.05 Ue = 435 V

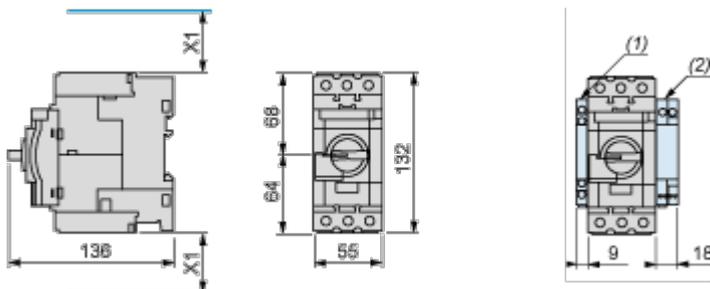


- 1 GV3L73 - GV3L80
- 2 GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25

Dimensions Drawings

GV3L, GV3P

Dimensions



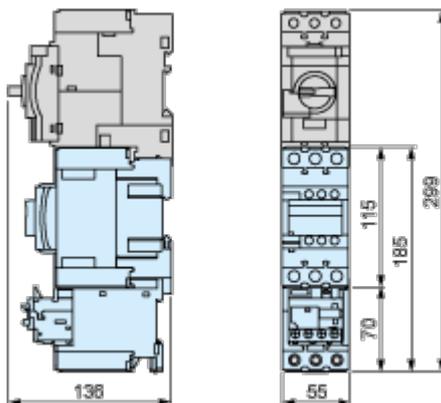
(1) Blocks GVAN<sub>●●</sub>, GVAD<sub>●●</sub> and GVAM11.

(2) Blocks GV3AU<sub>●●</sub> and GV3AS<sub>●●</sub>.

X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

**NOTE:** Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

Mounting with Tesys contactor LC1D40A...D80A and relay LR3D313...380 (1)(2)(3)

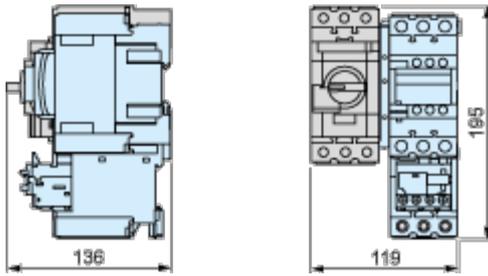


(1) Mountings with c.b. up to GV3L73, GV3P73.

(2) For GV3L80, GV3P80 use cable between components for dissipating heat. Consult online datasheets for values.

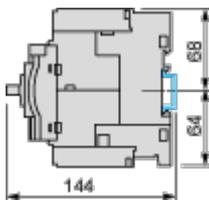
(3) S-shape busbar system suitable up to 73 A.

Side by side mounting with Tesys contactor LC1D40A...D73A (S-shape busbar system GV3S<sup>(1)</sup>)

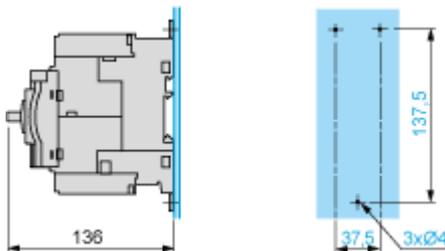


(1) Mountings with c.b. up to GV3L73, GV3P73.

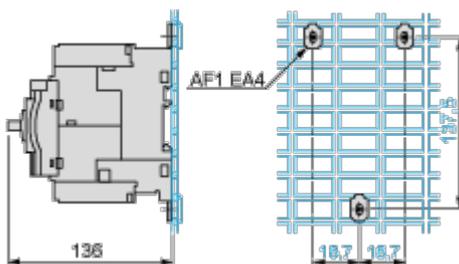
Mounting on Rail AM1 DE200 or AM1 ED201



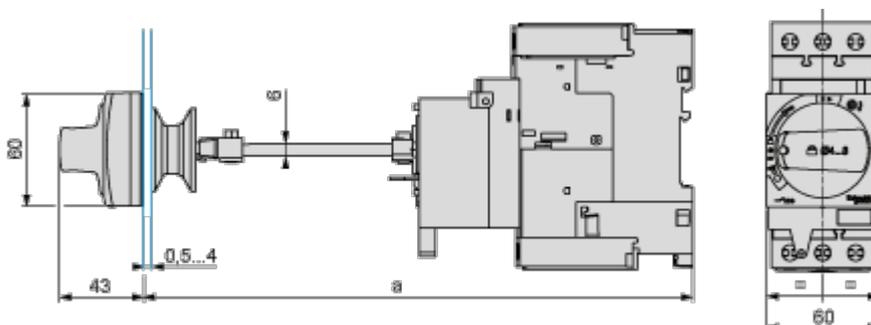
Panel Mounting, using M4 Screws



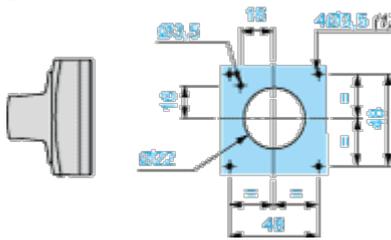
Mounting on Pre-Slotted Plate AM1 PA



Mounting of External Operator GV3APN01, GV3APN02 or GV3APN04 for Motor Circuit Breakers GV3L

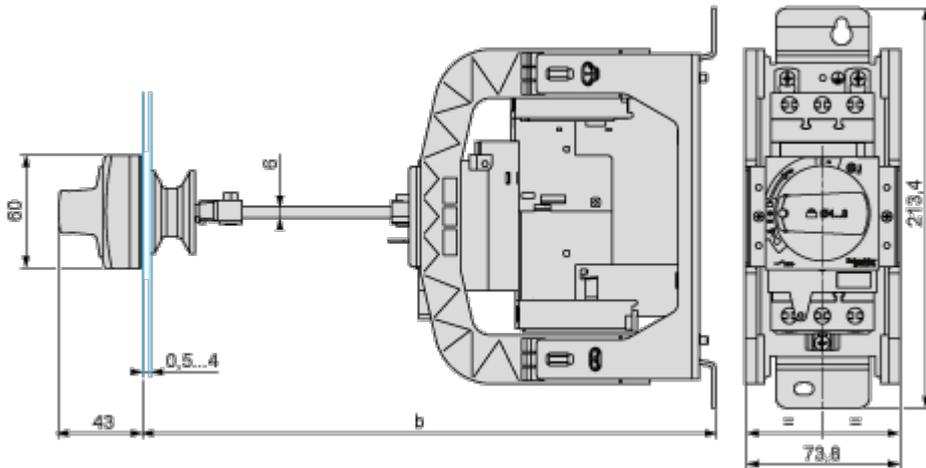


Door cut-out



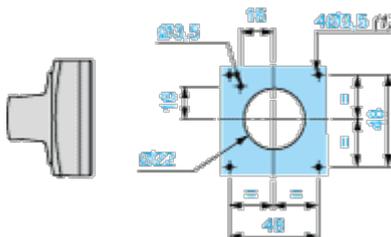
(1) For IP65 only.

Mounting of External Operator GVAPH03 for Motor Circuit Breakers GV3L



	b	
	Minimum	Maximum
GV3APN <sub>..</sub> + GVAPH03	200	300
GV3APN <sub>..</sub> + GVAPH03 + GVAPK12	300	492

Door cut-out



(1) For IP65 only.

Connections and Schema

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GV3L••

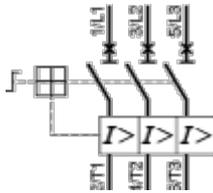
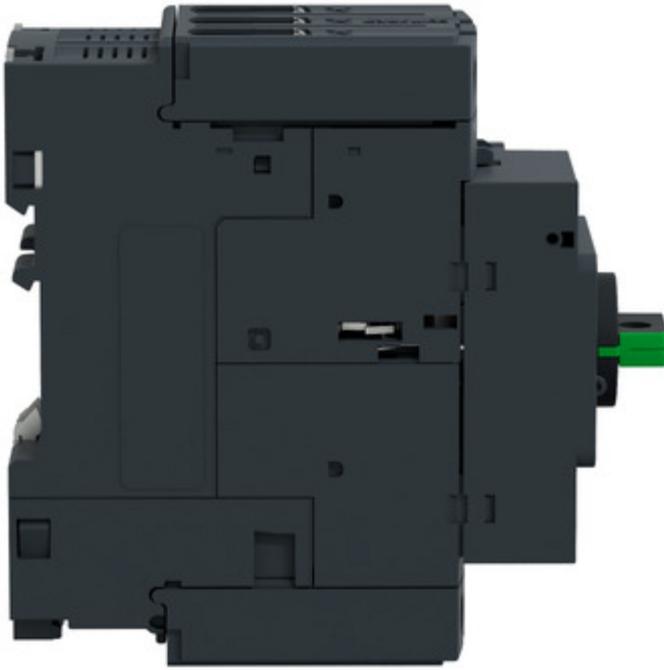


Image of product / Alternate images

Alternative

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Technical Illustration

Assembly's dimensions

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