

# Product data sheet

## Characteristics

# GB2DB05

Thermal magnetic circuit breaker, TeSys GB2, 2P, 0.5 A, Icu 50 kA@415 V



### Main

Range	TeSys
Product name	TeSys GB2
Device short name	GB2
Product or component type	Circuit breaker
Device application	Control
Poles description	2P
Network type	AC/DC
Utilisation category	Category A conforming to IEC 60947-2 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1
Network frequency	50/60 Hz conforming to IEC 60947-2
Breaking capacity	50 KA Icu at 110 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 1.5 KA Icu at 24 V DC conforming to IEC 60947-2 1 kA Icu at 48 V DC conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 110 V AC 50/60 Hz conforming to IEC 60947-2 25 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 25 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
Trip unit technology	Thermal-magnetic
Magnetic tripping current	6.6 A

### Complementary

Mounting mode	By clips
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Control type	Toggle
[In] rated current	0.5 A
[Ue] rated operational voltage	415 V AC 50/60 Hz conforming to IEC 60947-2 48 V DC
[Uiimp] rated impulse withstand voltage	IEC 60947-2 4 kV
Power dissipation per pole	2 W
Mechanical durability	8000 cycles
Electrical durability	8000 cycles
Connections - terminals	Connector 1 cable(s) 0.75...6 mm <sup>2</sup> solid without cable end Connector 2 cable(s) 0.75...4 mm <sup>2</sup> solid without cable end Connector 1 cable(s) 0.75...4 mm <sup>2</sup> flexible with cable end Connector 2 cable(s) 0.75...2.5 mm <sup>2</sup> flexible with cable end
Tightening torque	1.2 N.m on connector
Mechanical robustness	Shocks: 22 Gn for 20 ms conforming to IEC 60068-2-27 Vibrations: 5 Gn, 5...110 Hz conforming to IEC 60068-2-6
Quantity per set	Set of 3
9 mm pitches	4

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Height	74 mm
Width	30 mm
Depth	70 mm
Net weight	0.115 kg

## Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2
Protective treatment	TC
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	3000 m

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	103 g
Package 1 Height	8 cm
Package 1 width	8.5 cm
Package 1 Length	9.7 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	3
Package 2 Weight	331 g
Package 2 Height	8 cm
Package 2 width	8.5 cm
Package 2 Length	9.7 cm
Unit Type of Package 3	S02
Number of Units in Package 3	36
Package 3 Weight	4.27 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Contractual warranty

Warranty	18 months
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