

Product data sheet

Characteristics

GB2CB20

Thermal magnetic circuit breaker, TeSys GB2,
1P, 12 A, Icu 1.5 kA@240 V



Main

Range	TeSys
Product name	TeSys GB2
Device short name	GB2
Product or component type	Circuit breaker
Device application	Control
Poles description	1P
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	2 KA Icu at 110 V AC 50/60 Hz conforming to IEC 60947-2 1.5 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 1.5 kA Icu at 24 V DC conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	75 % at 110 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
Trip unit technology	Thermal-magnetic
Magnetic tripping current	165 A

Complementary

Mounting mode	By clips
Mounting support	Rail Plate
Mounting position	Horizontal Vertical
Control type	Toggle
[In] rated current	12 A
[Ue] rated operational voltage	250 V AC 50/60 Hz conforming to IEC 60947-2 277 V AC 60 Hz conforming to CSA C22.2 No 235 277 V AC 60 Hz conforming to UL 1077 48 V DC
[Uimp] 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 ² solid without cable end Connector 2 cable(s) 0.75...4 mm ² solid without cable end Connector 1 cable(s) 0.75...4 mm ² flexible with cable end Connector 2 cable(s) 0.75...2.5 mm ² 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 6
9 mm pitches	2
Height	74 mm
Width	15 mm
Depth	67 mm

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2 CSA C22.2 No 235 UL 1077
Product certifications	UL CSA
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	52 g
Package 1 Height	1.5 cm
Package 1 width	7.3 cm
Package 1 Length	6.8 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	6
Package 2 Weight	328 g
Package 2 Height	8.4 cm
Package 2 width	10 cm
Package 2 Length	8 cm
Unit Type of Package 3	S02
Number of Units in Package 3	72
Package 3 Weight	4.494 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	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
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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