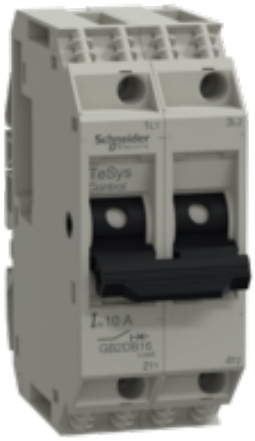
Product data sheet
Characteristics

GB2DB16
Circuit breaker, TeSys GB2, 2P, 10A, Icu 1.5kA at 415V, Thermal magnetic, DIN rail mounted



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	1 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 1 KA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	75 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
Trip unit technology	Thermal-magnetic
Magnetic tripping current	138 A

Complementary

Mounting mode	By clips
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Control type	Toggle
[In] rated current	10 A
[Ue] rated operational voltage	415 V AC 50/60 Hz conforming to IEC 60947-2 48 V DC
[Uimp] rated impulse withstand voltage	4 KV conforming to IEC 60947-2
Power dissipation per pole	2 W
Mechanical durability	8000 Cycles
Electrical durability	8000 Cycles
Connections - terminals	Connector 1 cable(s) 0.75…6 mm²solid without cable end Connector 2 cable(s) 0.75…4 mm²solid without cable end Connector 1 cable(s) 0.75…4 mm²flexible with cable end Connector 2 cable(s) 0.75…2.5 mm²flexible 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
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 Height	8.500 Cm
Package 1 Width	8.000 Cm
Package 1 Length	9.700 Cm
Package 1 Weight	105.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	3
Package 2 Height	8.500 Cm
Package 2 Width	8.000 Cm
Package 2 Length	9.700 Cm
Package 2 Weight	332.000 G
Unit Type of Package 3	S02
Number of Units in Package 3	36
Package 3 Height	15.000 Cm
Package 3 Width	30.000 Cm
Package 3 Length	40.000 Cm
Package 3 Weight	4.254 Kg

Offer Sustainability

Recyclability potential, in %	30
Total lifecycle Carbon footprint	6 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7315009678243641
Carbon footprint of the manufacturing phase [A1 to A3]	0.7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.02157970881778989
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.008352356603828793
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	4.727441133499354
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	5 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2768162399373479
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	6

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised