Product data sheet
Characteristics

GV2ME20A
Motor circuit breaker, TeSys Deca, 3P, AC-3/ AC-3e, 13 to 18A, thermal magnetic, snap-in terminals, push button



Main

Range	TeSys Deca
Product name	TeSys GV2
Product or component type	Motor circuit breaker
Device short name	GV2ME
Device application	Motor protection
Trip unit technology	Thermal-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 AC-3e conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-2
Motor power kW	7.5 KW at 400/415 V AC 50/60 Hz 9 KW at 500 V AC 50/60 Hz 15 KW at 690 V AC 50/60 Hz
Breaking capacity	100 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 15 KA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 8 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 6 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 3 KA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Push-button
[In] rated current	18 A
Thermal protection adjustment range	13…18 A conforming to IEC 60947-2
Magnetic tripping current	341 A
[Ith] conventional free air thermal current	18 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
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Suitability for isolation	Yes conforming to IEC 60947-1
Power dissipation per pole	2.5 W
Mechanical durability	100000 Cycles

Electrical durability	100000 Cycles for AC-3 at 415 V In 100000 Cycles for AC-3e at 415 V In
Rated duty	Uninterrupted conforming to IEC 60947-4-1
Connections - terminals	Power circuit: snap-in terminal 2 cable(s) 0.75…6 mm² - flexible without cable end Power circuit: snap-in terminal 2 cable(s) 0.75…4 mm² - flexible with cable end Power circuit: snap-in terminal 2 cable(s) (18 AWG...10 AWG) - stranded
Fixing mode	35 mm symmetrical DIN rail: clipped Panel: screwed (with adaptor plate)
Mounting position	Horizontal Vertical
Width	45 Mm
Height	101 Mm
Depth	78.5 Mm
Net weight	285 G
Colour	Dark grey

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC/EN 60335-2-40:Annex JJ IEC/EN 60335-1:Clause 30.2
Product certifications	CB Scheme[RETURN]CE[RETURN]UKCA[RETURN]CCC[RETURN]cULus[RETURN]ATEX[RETU
IK degree of protection	IK04
IP degree of protection	IP20 conforming to IEC 60529 (on front face)
Climatic withstand	Conforming to IACS E10
Ambient air temperature for storage	-40…80 °C
Fire resistance	960 °C conforming to IEC 60695-2-11
Ambient air temperature for operation	-20…60 °C
Mechanical robustness	Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5...150 Hz
Operating altitude	<= 2000 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 Cm
Package 1 Width	9.000 Cm
Package 1 Length	10.500 Cm
Package 1 Weight	320.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	6.700 Kg

Offer Sustainability

Recyclability potential, in %	49
Total lifecycle Carbon footprint	11 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.5255837782088224
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.07682538639726075
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.03842326272200364
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	8.86395212531129
Carbon footprint of the use phase [B2, B3, B4, B6]	9 kg CO2 eq.

Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.4224133601780431
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	11
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	04104e70-ba29-493c-b2cc-b5837d1f879b
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr
End of life manual availability	End Of Life Information
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