Product data sheet
Characteristics

GV2ME166
Motor circuit breaker,TeSys Deca frame 2,3P,9-14A,thermal magnetic,push button,lugs terminals



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	5.5 KW at 400/415 V AC 50/60 Hz 7.5 KW at 500 V AC 50/60 Hz 9 KW at 690 V AC 50/60 Hz 11 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	14 A
Thermal protection adjustment range	9…14 A conforming to IEC 60947-2
Magnetic tripping current	253.4 A
[Ith] conventional free air thermal current	14 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: lugs-ring terminals 2 cable(s) 1…6 mm² - solid Power circuit: lugs-ring terminals 2 cable(s) 1.5…6 mm² - flexible without cable end Power circuit: lugs-ring terminals 2 cable(s) 1…4 mm² - flexible with cable end
Tightening torque	1.7 N.M - on screw clamp terminal
Fixing mode	35 mm symmetrical DIN rail: clipped Panel: screwed (with adaptor plate)
Mounting position	Horizontal Vertical
Width	45 Mm
Height	89 Mm
Depth	78.5 Mm
Net weight	0.26 Kg
Colour	Dark grey
Connection pitch	13.5 Mm without spreader

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]EAC[RETU
IK degree of protection	IK04
IP degree of protection	IP20 conforming to IEC 60529
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	8.700 Cm
Package 1 Width	4.500 Cm
Package 1 Length	9.300 Cm
Package 1 Weight	283.900 G
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	7.200 Kg

Offer Sustainability

Recyclability potential, in %	49
Total lifecycle Carbon footprint	11 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.634976413467982
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.08233418348388603
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.04117841915749615
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]	0.4527026902683291
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 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
POP Directive	No POPs
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