

GV6P500F

Motor circuit breaker, TeSys GV6, 3P, 500A, Icu 36kA, thermal magnetic



Main

Range	TeSys
Product name	TeSys GV6
Product or component type	Motor circuit breaker
Device short name	GV6P
Device application	Motor protection
Protection type	Overload protection Short-circuit protection Instantaneous short-circuit protection Phase unbalance Phase loss
Utilisation category	Category A conforming to IEC 60947-2
Control type	Direct rotary handle
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz
[In] rated current	500 A at 65 °C
Breaking capacity code	F 36 kA
Breaking capacity	36 KA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Trip unit name	Micrologic 2.3 M
Trip unit rating	500 A
Trip unit technology	Electronic
Magnetic tripping current	6500 A
[Isd] short-time pick-up adjustment range	5...13 x Ir adjustable 9 settings
Thermal protection adjustment range	250...500 A adjustable 9 settings
Thermal overload class	Class 5 conforming to IEC 60947-4-1 Class 10 conforming to IEC 60947-4-1 Class 20 conforming to IEC 60947-4-1
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Mechanical durability	15000 cycles
Electrical durability	4000 cycles for AC-3 at 400/415 V In
Maximum operating rate	25 cyc/h
Rated duty	Continuous
Power dissipation per pole	39.7 W

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Complementary

Motor power kW	200...250 kW at 400/415 V AC 50/60 Hz 250...315 kW at 500 V AC 50/60 Hz 315...400 kW at 660/690 V AC 50/60 Hz
Local signalling	LED ready LED 95 % lth
Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	IECEE CB Scheme EAC (pending)
Fixing mode	By screws
Mounting position	Horizontal and vertical
Connections - terminals	Power circuit: bars - busbar cross section: 32 x 10 mm Power circuit: lugs - external diameter: 32 mm
Connection pitch	45 mm without spreaders
Tightening torque	50 N.m screw : M10
Width	140 mm
Height	255 mm
Depth	179 mm
Net weight	6.7 kg
Colour	Anthracite (RAL 7016)

Environment

Ambient air temperature for storage	-55...85 °C
Ambient air temperature for operation	-25...70 °C
Operating altitude	0...2000 m without derating
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Pollution degree	3
Protective treatment	TC
Fire resistance	960 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	5.98 kg
Package 1 Height	16 cm
Package 1 width	27 cm
Package 1 Length	27.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	2
Package 2 Weight	12.6 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

Offer Sustainability

EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
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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