

Product data sheet

Specifications



Motor circuit breaker, TeSys GV5, 3P, 150A, Icu 36kA, thermal magnetic

GV5P150F

Main

Range	TeSys
Product name	TeSys GV5
Product or component type	Motor circuit breaker
Device short name	GV5P
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	150 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 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 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 2.2 M
Trip unit rating	150 A
Trip unit technology	Electronic
Magnetic tripping current	2250 A
[I _{sd}] short-time pick-up adjustment range	5...13 x I _r adjustable 9 settings

Thermal protection adjustment range	70...150 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	40000 cycles
Electrical durability	20000 cycles for AC-3 at 400/415 V In
Maximum operating rate	25 cyc/h
Rated duty	Continuous
Power dissipation per pole	9.2 W

Complementary

Motor power kW	55...75 kW at 400/415 V AC 50/60 Hz 75...90 kW at 500 V AC 50/60 Hz 90...110 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: 25 x 6 mm Power circuit: lugs - external diameter: 25 mm
Connection pitch	35 mm without spreaders
Tightening torque	15 N.m screw : M8
Width	105 mm
Height	161 mm
Depth	155 mm
Net weight	2.4 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	2.4 kg
Package 1 Height	11.8 cm
Package 1 width	17 cm
Package 1 Length	19.1 cm
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	13.4 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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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