

GV7RE80

motor circuit breaker GV7-RE - 3 poles 3d -
48...80 A - thermomagnetic trip unit



Main

Range of product	GV7R
Device short name	Thermal magnetic circuit breaker
Circuit breaker application	Motor protection
Poles description	3P
Network type	AC
Control type	Rocker lever
Thermal protection adjustment range	48...80 A conforming to IEC 60947-4-1
Suitability for isolation	Yes conforming to IEC 60947-1 § 7-1-6
Utilisation category	AC-3 conforming to IEC 60947-4-1 Category A conforming to IEC 60947-2
Connections - terminals	Power circuit: screw clamp terminal

Complementary

Network frequency	50/60 Hz
Mounting mode	Fixed
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Motor power kW	37 kW at 400...415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 55 kW at 660...690 V AC 50/60 Hz
[In] rated current	80 A
Phase failure sensitivity	Yes conforming to IEC 60947-4-1 § 7-2-1-5-2
[Ue] rated operational voltage	600 V AC 50/60 Hz conforming to CSA C22-2 No 14 600 V AC 50/60 Hz conforming to UL 508 690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] rated insulation voltage	600 V conforming to CSA C22-2 No 14 600 V conforming to UL 508 750 V conforming to IEC 60947-2
[Ith] conventional free air thermal current	80 A conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to CSA 50/60 Hz conforming to IEC 60947-4-1 50/60 Hz conforming to UL
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
Power dissipation per pole	5 W
Mechanical durability	50000 cycles
Electrical durability	30000 cycles on AC-3 at 440 V In 50000 cycles on AC-3 at 440 V In/2
Maximum number of switchings	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connection pitch	35 mm without spreaders 45 mm with spreaders
Tightening torque	10 N.m - on screw clamp terminal
Type of lugs	Bars - width: ≤ 25 mm - height: 20 mm - distance hole to end: ≤ 10 - thickness: ≤ 6 mm - screw: M6 Lugs - width: ≤ 25 mm - distance hole to end: ≤ 10 - thickness: ≤ 6 mm - screw: M6

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Breaking capacity	Icu 18 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 8 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 85 kA at 230...240 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 60947-2 100 % at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 440 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 690 V AC 50/60 Hz conforming to IEC 60947-2
Height	161 mm
Width	105 mm
Depth	111 mm
Product weight	2.04 kg

Environment

Standards	EN 60947-1 EN 60947-2 EN 60947-4-1 IEC 60947-1 IEC 60947-2 IEC 60947-4-1 NF C 63-120 NF C 63-650 NF C 79-130 VDE 0113 VDE 0660
Product certifications	CCC DNV UL
Protective treatment	TC
IP degree of protection	IP405 open mounted conforming to IEC 60529 IP405 with terminal shrouds conforming to IEC 60529
Shock resistance	15 gn 20 ms conforming to IEC 60068-2-27
Vibration resistance	2.5 gn 25 Hz conforming to IEC 60068-2-6
Ambient air temperature for operation	-25...70 °C open mounted
Ambient air temperature for storage	-55...95 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	<= 2000 m
Resistance to mechanical impact	0.5 J
RoHS EUR status	Compliant
RoHS EUR conformity date	0744