



### Main

Commercial Status	Commercialised
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	90...150 A conforming to IEC 60947-4-1
Suitability for isolation	Yes conforming to IEC 60947-1 § 7-1-6
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
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	90 kW at 660...690 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 75 kW at 400...415 V AC 50/60 Hz 55 kW at 400...415 V AC 50/60 Hz 110 kW at 660...690 V AC 50/60 Hz
[In] rated current	150 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 14 690 V AC 50/60 Hz conforming to IEC 60947-2 600 V AC 50/60 Hz conforming to UL 508
[Ui] rated insulation voltage	600 V conforming to CSA C22.2 No 14 750 V conforming to IEC 60947-2 600 V conforming to UL 508
[Ith] conventional free air thermal current	150 A conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to UL 50/60 Hz conforming to IEC 60947-4-1 50/60 Hz conforming to CSA
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
Power dissipation per pole	8.7 W
Mechanical durability	40000 cycles
Electrical durability	40000 cycles on AC-3 at 440 V In/2 20000 cycles on AC-3 at 440 V In
Maximum number of switchings	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connection pitch	1.77 in (45 mm) with spreaders 1.38 in (35 mm) without spreaders
Tightening torque	132.74 lbf.in (15 N.m) - on screw clamp terminal
Type of lugs	Lugs - width: <= 0.98 in (25 mm) - distance hole to end: <= 10 - thickness: <= 0.24 in (6 mm) - screw: M8 Bars - width: <= 0.98 in (25 mm) - height: 0.79 in (20 mm) - distance hole to end: <= 10 - thickness: <= 0.24 in (6 mm) - screw: M8

Breaking capacity	Icu 70 kA at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 100 kA at 230...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 10 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 690 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 440 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 230...240 V AC 50/60 Hz conforming to IEC 60947-2
Height	6.34 in (161 mm)
Width	4.13 in (105 mm)
Depth	4.37 in (111 mm)
Product weight	4.45 lb(US) (2.02 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 with terminal shrouds conforming to IEC 60529 IP405 open mounted 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	-13...158 °F (-25...70 °C) open mounted
Ambient air temperature for storage	-67...203 °F (-55...95 °C)
Fire resistance	1760 °F (960 °C) conforming to IEC 60695-2-1
Operating altitude	<= 6561.68 ft (2000 m)
Resistance to mechanical impact	0.5 J

## Ordering and shipping details

Category	22366 - MAN STR PROTECTORS-GV1/GV3
Discount Schedule	I11
GTIN	00785901294344
Nbr. of units in pkg.	1
Package weight(Lbs)	4.33
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	CN

## Contractual warranty

Period	18 months
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