



MMN220



Magnetic MCB 2P 20kA 20A 400V access. indicator IEC 947-2

Technical properties

Architecture

Neutral position	without neutral
Number of protected poles	2
Number of poles	2 P
Type of pole	2 P

Functions

Concurrently switching N-neutral	No
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Configuration

Number of modules	2
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Main electrical features

Rated operational voltage Ue	400 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

Electric current

Rated current	20 A
Magnetic regulating current	12 In
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	20 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated service breaking capacity Ics AC according IEC 60947-2	75 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	20 kA

Electric current / temperature

Rating current 30°C	21.6 A
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Rating current 35°C	20.8 A
Rating current 40°C	20 A
Rating current 45°C	19.2 A
Rating current 50°C	18.4 A
Rating current 55°C	17.6 A
Rating current 60°C	16.8 A
Rating current 70°C	15.2 A

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	0.95
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.9
Correction factor of rating current for 6 devices placed side-by-side	0.85
Correction factor of magnetic tripping with 100 Hz	1.1
Correction factor of magnetic tripping with 200 Hz	1.2
Correction factor of magnetic tripping with 400 Hz	1.5
Correction factor of magnetic tripping with 60 Hz	1

Dimensions

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	35 mm

Frequency

Frequency	50 to 60 Hz
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Power

Maximum power loss per pole according to the product standard	4.5 W
Total power loss under I _N	1.07 W
Power loss per pole at I _N	0.55 W

Endurance

Electric endurance in number of cycles	10000
Number of mechanical operations	20000

Installation, mounting

Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	plastic
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes

Connection

Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm ²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm ²
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-25...70 °C
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-25...80 °C