



## MCB 2P 6kA C-20A 2M

MSN220

### Architecture

Neutral position	without neutral
Number of poles	2 P
Type of pole	2 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C

### Functions

Concurrently switching N-neutral	no
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### Compatibility

Compatible with DIN rail mounting	yes
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### Controls and indicators

With Contact position indicator	no
With fault indicator	no

### Connectivity

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

### Main electrical features

Rated operational voltage Ue	415 V
Type of supply voltage	AC

### Voltage

Rated insulation voltage	500 V
Max operating voltage	415 V
Rated impulse withstand voltage	4000 V

### Electric current

Rated current	20 A
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 I <sub>n</sub>
Magnetic regulating current	5 / 10 I <sub>n</sub>

Technical Properties

Rated short circuit breaking capacity I <sub>cn</sub> under 400V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity I <sub>cn</sub> under 415V AC according IEC 60898-1	6 kA
Rated service breaking capacity I <sub>cs</sub> under 415V AC according IEC 60898-1	6 kA

**Electric current / temperature**

Rating current -25°C	27,36 A
Rating current -20°C	26,7 A
Rating current -15°C	26,03 A
Rating current -10°C	25,4 A
Rating current -5°C	24,71 A
Rating current 0°C	24,05 A
Rating current 5°C	23,39 A
Rating current 10°C	22,73 A
Rating current 15°C	22,07 A
Rating current 20°C	21,41 A
Rating current 25°C	20,75 A
Rating current 30°C	20 A
Rating current 35°C	19,42 A
Rating current 40°C	18,76 A
Rating current 45°C	18,1 A
Rating current 50°C	17,5 A
Rating current 55°C	16,78 A
Rating current 60°C	16,12 A
Rating current 65°C	15,46 A
Rating current 70°C	14,8 A

**Current correction factors**

Correction factor of rating current for 2 devices placed 1 side-by-side	
Correction factor of rating current for 3 devices placed 0,95 side-by-side	
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

**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 <sub>N</sub>	5,57 W
Power loss per pole at I <sub>n</sub>	2,85 W

**Endurance**

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

### Dimensions

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

### Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	no
Bottom removability for modular devices	yes
360° product mounting position	yes

### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 35 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm <sup>2</sup>
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Nominal tightening torque bottom terminal	2,8 Nm
Nominal tightening torque top terminal	2,8 Nm

### Equipment

Can be accessorized	yes
Accept terminal cover	no
With transparent product label holder	yes

### Standards

Standard text	IEC 60898-1, AS/NZS 60898-1
European directive WEEE	not concerned

### Safety

Protection index IP	IP20
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### Use conditions

Operating temperature	-25 70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-25 80 °C

### temperatur

Temperature of calibration	30 °C
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