



MCN420A

MCB 4P 6kA C-20A 4M

Product Datasheet

Architecture

Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	C

Functions

Concurrently switching N-neutral	no
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Connectivity

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

Main electrical features

Rated short circuit breaking capacity I_{cn} AC according IEC60898-1	6 kA
Rated operational voltage U_e	230 / 400 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

Electric current

Rated current	20 A
Rated service breaking capacity I_{cs} AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 I_n
Magnetic regulating current	5 / 10 I_n
min/maxi threshold value of the DC magnetic operation	7 / 15 I_n
min/maxi threshold value of the DC thermal operation	1,13 / 1,45 I_n
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity I_{cn} under 400V AC according IEC60898-1	6 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 415V AC IEC 60947-2	10 kA

Electric current / temperature

Rating current -25°C	25,3 A
Rating current -20°C	24,9 A
Rating current -15°C	24,4 A
Rating current -10°C	24 A
Rating current -5°C	23,5 A
Rating current 0°C	23,1 A
Rating current 5°C	22,6 A
Rating current 10°C	22,1 A
Rating current 15°C	21,6 A
Rating current 20°C	21,1 A
Rating current 25°C	20,5 A
Rating current 30°C	20 A
Rating current 35°C	19,4 A
Rating current 40°C	18,7 A
Rating current 45°C	18 A
Rating current 50°C	17,3 A
Rating current 55°C	16,6 A
Rating current 60°C	15,8 A
Rating current 65°C	15 A
Rating current 70°C	14,1 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

Frequency

Frequency	50 to 60 Hz
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Power

Total power loss under I _N	11,7 W
Power loss per pole at I _n	3 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	70 mm

Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect
360° product mounting position	yes

Connection

Connection cross-sect. flexible conductor	1 / 25mm ²
Connection cross-sect. rigid cable	1 / 35mm ²
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
Type of connection	with screw

Standards

Standard text	EN 60898-1
European directive WEEE	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 ² t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-25...80 °C