



MSN120

MCB 1P 6kA C-20A 1M

Technical properties

Neutral position	without neutral
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated operational voltage Ue	240 / 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
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	5 / 10 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	6 kA
Electric current / temperature	
Rating current -25°C	28.03 A
Rating current -20°C	27.39 A
Rating current -15°C	26.74 A

Rating current -10°C	26.41
Rating current -5°C	25.45
Rating current 0°C	24.81
Rating current 5°C	24.17
Rating current 10°C	23.52
Rating current 15°C	22.88
Rating current 20°C	22.23
Rating current 25°C	21.59
Rating current 30°C	20
Rating current 35°C	20.3
Rating current 40°C	19.66
Rating current 45°C	19.01
Rating current 50°C	19
Rating current 55°C	17.73
Rating current 60°C	17.08
Rating current 65°C	16.44
Rating current 70°C	15.79
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	
Correction factor of rating current for 3 devices placed side-by-side	0.9
Correction factor of rating current for 4 and 5 devices placed side-by-side	0
Correction factor of rating current for 6 devices placed side-by-side	0.8
Dimensions	
Depth of installed product	70 m
Width of installed product	17.5 m
Power	
Maximum power loss per pole according to the product standard	4.5
Power loss per pole at In	2.1
Endurance	
Electric endurance in number of cycles	400
Number of mechanical operations	2000
Installation, mounting	
Type of top connection for modular devices	with scre
Tightening torque	2,8N
Type of bottom rail clip for modular devices	plas
	Blconne
Type of Bottom Connection for modular devices	Diconne
	N

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm²
Connection cross-section at output with screw, for massive conductor	1 / 35 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm²
Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm²
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
Type of connection	with screw
Equipment	
Can be accessorized	Yes
With transparent product label holder	Yes
Standards	
Standard text	IEC 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
REACH conform	Yes
RoHS conform	Yes
Halogen free	Nc
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I ² t	3
Altitude	2000 m
Storage/transport temperature	-2580 °C
temperatur	
Temperature of calibration	30 °C