



MT120A

MCB 1P 6kA B-20A 1M

Technical characteristics

	1
Number of poles	1 F
Type of pole	1 P
Functions	
Concurrently switching N-neutral	Nc
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Aligned termina
Bottom connection alignement for modular devices	Aligned termina
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	230 / 400 \
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated insulation voltage Rated impulse withstand voltage	500 V 4000 V
Rated impulse withstand voltage	
Rated impulse withstand voltage Electric current	4000 V
Rated impulse withstand voltage Electric current Rated current	
Rated impulse withstand voltage Electric current	4000 V
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC	4000 V 20 A 6 kA
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal	4000 V 20 A
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation	4000 V 20 A 6 kA 1.13 / 1.45 lr 3 / 5 lr
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation Magnetic regulating currrent min/maxi threshold value of the DC	4000 V 20 A 6 kA 1.13 / 1.45 Ir
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation Magnetic regulating currrent min/maxi threshold value of the DC magnetic operation min/maxi threshold value of the DC thermal	4000 V 20 A 6 kA 1.13 / 1.45 Ir 3 / 5 Ir 3 / 7.5 Ir 1.13 / 1.45 Ir
Rated impulse withstand voltage Electric current Rated current Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal operation Magnetic regulating currrent min/maxi threshold value of the DC magnetic operation min/maxi threshold value of the DC thermal operation Breaking capacity on 1 pole for IT 400V NF	4000 V 20 A 6 kA 1.13 / 1.45 lr 3 / 5 lr 3 / 7.5 lr

Electric current / temperature

Rating current -25°C	23.8 A
Rating current -20°C	23.5 A
Rating current -15°C	23.2 A
Rating current -10°C	22.8 A
Rating current -5°C	22.5 A
Rating current 0°C	22.2 A
Rating current 5°C	21.8 A
Rating current 10°C	21.5 A
Rating current 15°C	21.1 A
Rating current 20°C	20.7 A
Rating current 25°C	20.4 A
Rating current 30°C	20 A
Rating current 35°C	19.6 A
Rating current 40°C	19.2 A
Rating current 45°C	18.8 A
Rating current 50°C	18.4 A
Rating current 55°C	18 A
Rating current 60°C	17.6 A
Rating current 65°C	17.2 A
Rating current 70°C	16.8 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	68 mm
Height of installed product	83 mm
Width of installed product	17.5 mm
Frequency	
Frequency	50 to 60 Hz
Power	

Total power loss under IN	2.7 W
Power loss per pole at In	2.7 W

Endurance

Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	20000
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of top rail clip for modular devices	NA
Type of bottom rail clip for modular devices	metallic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	No
Bottom removability for modular devices	No
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	not concerned
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I ² t	3
Altitude	2000 m
	25 00 00

Storage/transport temperature

-25...80 °C