

MC120A

MCB 1P 6kA C-20A 1M

Technische Merkmale

Type of pole 11 Curve 1 Functions 1 Concurrently switching N-neutral n Connectivity 1 Top connection alignement for modular devices Aligned termina Bottom 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 6 k according IEC6098-1 Rated operational voltage Ue 230 / 400 Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage 500 Rated insulation voltage 500 Rated insulation voltage 500 Rated insulation voltage 500 Rated service breaking capacity Ics AC according [EC 60898-1 min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 5 / 10 I Rated short circuit breaking capacity Icn under 6 k Rated ultimate short-circuit breaking capacity Icu 06 k	Number of protected poles	1
Curve Functions Functions Concurrently switching N-neutral n 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 Rated insulation voltage A Frequency 50/60 H Voltage Rated insulation voltage 5000 Rated impulse withstand voltage 5000 Rated impulse withstand voltage 5000 Rated service breaking capacity Ics AC according IEC 6098-1 min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation Magnetic regulating current 5 / 10 I Rated short circuit breaking capacity Icn under 25 / 10 I Rated short circuit breaking capacity Icn under 6 k Rated short circuit breaking capacity Icn under 6 k Rated short circuit breaking capacity Icn under 6 k Rated short circuit breaking capacity Icn under 6 k Rated short circuit breaking capacity Icn under 6 k Rated ultimate short-circuit breaking capacity Icu 16 k Rated ultimate short-circuit breaking capacity Icu	Number of poles	1 F
Functions Concurrently switching N-neutral n Connectivity Top connection alignement for modular devices Aligned termina Battom connection alignement for modular devices Aligned termina Main electrical features Aligned termina Main electrical features 6 k Rated short circuit breaking capacity Icn AC 6 k according IEC60898-1 230 / 400' Type of supply voltage A Frequency 50/60 H Voltage 200 / 400' Rated insulation voltage 500' Rated insulation voltage 500' Rated current 20 , Rated current 20 , Rated service breaking capacity Ics AC according 6 k IEC 60898-1 6 k min/maxi threshold value of the AC thermal 1,13 / 1,45 I Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 200 / A caccording IEC60898-1 6 k	Type of pole	1 F
Concurrently switching N-neutral n Connectivity Aligned terminal Top connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Main electrical features Aligned terminal Rated short circuit breaking capacity Icn AC 6 k according IEC60898-1 230 / 400 Type of supply voltage A Frequency 50/60 H Voltage 200 Rated insulation voltage 5000 Rated insulation voltage 5000 Rated impulse withstand voltage 200 Electric current 200 Rated current 200 Rated service breaking capacity Ics AC according 6 k IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 101 Rated short circuit breaking capacity Icn under 26 k 200 / A caccording IEC60898-1 6 k Rated short circuit breaking capacity Icn under 5 / 101 Rated ultimate short-circuit breaking capacity Icn under 6 k	Curve	C
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 6 k. Rated short circuit breaking capacity Icn AC 6 k. according IEC60898-1 230 / 400 Type of supply voltage A Frequency 50/60 H Voltage 4000 Rated insulation voltage 5000 Rated insulation voltage 5000 Rated current 200. Rated current 200. Rated current 200. Rated service breaking capacity Ics AC according Ic 60898-1 6 k. IEC 60898-1 1,13 / 1,45 I min/maxit threshold value of the AC thermal operation 1,13 / 1,45 I Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 26 k. 200 / Ac according IEC60898-1 6 k. Rated short circuit breaking capacity Icn under 5 / 10 I Rated short circuit breaking capacity Icn under 6 k. 200 / Ac according IEC60898-1 6 k. <td>Functions</td> <td></td>	Functions	
Top connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue 230 / 400 ° Type of supply voltage A Frequency 50/60 H Voltage 200 ° Rated insulation voltage 500 ° Rated inpulse withstand voltage 500 ° Rated service breaking capacity Ics AC according 6 k IEC 60898-1 20 ° Main electric current 20 ° Rated service breaking capacity Ics AC according 6 k IEC 60898-1 1,13 / 1,45 1 min/maxi threshold value of the AC thermal operation 1,13 / 1,45 1 Magnetic regulating currrent 5 / 101 Rated short circuit breaking capacity Icn under 6 k 200 VAC according IEC60898-1 6 k Rated intimate short-circuit breaking capacity Icu 6 k	Concurrently switching N-neutral	nc
Bottom connection alignement for modular devices Aligned terminal Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 Rated operational voltage Ue 230 / 400 T Type of supply voltage A Frequency 50/60 H Voltage 50/00 T Rated insulation voltage 500 T Rated insulation voltage 20 A Rated sing capacity Ics AC according IEC 60898-1 20 A Main elic regulating current 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230 V AC according IEC 60898-1 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230 V AC according IEC 60898-1 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230 V AC according IEC 60898-1 5 / 10 I Rated ultimate short-circuit breaking capacity Icn under 6 k	Connectivity	
Main electrical features Rated short circuit breaking capacity Icn AC 6 k according IEC60898-1 230 / 400 1 Rated operational voltage Ue 230 / 400 1 Type of supply voltage A Frequency 50/60 H Voltage 500 1 Rated insulation voltage 500 1 Rated insulation voltage 500 1 Rated inpulse withstand voltage 4000 1 Electric current 20 / Rated current 20 / Rated service breaking capacity Ics AC according 6 k IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230 / AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Top connection alignement for modular devices	Aligned termina
Rated short circuit breaking capacity Icn AC 6 k. according IEC60898-1 230 / 400 Rated operational voltage Ue 230 / 400 Type of supply voltage A Frequency 50/60 H Voltage S00 ° Rated insulation voltage 500 ° Rated insulation voltage 4000 ° Electric current 20 . Rated current 20 . Rated service breaking capacity Ics AC according IEC 60898-1 6 k. min/maxi threshold value of the AC thermal operation 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 26 k. 6 k. 230 V AC according IEC 60898-1 6 k. Rated short circuit breaking capacity Icn under 26 k. 6 k. 230 V AC according IEC 60898-1 6 k.	Bottom connection alignement for modular devices	Aligned termina
according IEC60898-1 Rated operational voltage Ue 230 / 400 ' Type of supply voltage A Frequency 50/60 H Voltage Rated insulation voltage 500 ' Rated insulation voltage 4000 ' Electric current Rated current 20 , Rated service breaking capacity Ics AC according IEC 60898-1 min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 5 / 10 I Rated short circuit breaking capacity Icn under 6 k, 230 / AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu 4 k construction 6 k, 230 / AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu 4 k construction 6 k, 230 / AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu 4 k k construction 6 k, 230 / AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu 4 k k construction 6 k, 230 / AC according IEC 60898-1 Rated ultimate short-circuit breaking capacity Icu 4 k k construction 6 k k construction 4 k	Main electrical features	
Type of supply voltage A Frequency 50/60 H Voltage S00 T Rated insulation voltage 500 T Rated impulse withstand voltage 4000 T Electric current 20 A Rated service breaking capacity Ics AC according 6 k IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal operation 5 / 10 I Rated short circuit breaking capacity Icn under 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230V AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Frequency 50/60 H Voltage 8ated insulation voltage Rated insulation voltage 500 ° Rated impulse withstand voltage 4000 ° Electric current 20 . Rated service breaking capacity Ics AC according IEC 60898-1 6 k. min/maxi threshold value of the AC thermal operation 1,13 / 1,45 I Magnetic regulating current 5 / 10 I Rated short circuit breaking capacity Icn under 6 k. 230V AC according IEC60898-1 6 k. Rated ultimate short-circuit breaking capacity Icu 6 k.	Rated operational voltage Ue	230 / 400 \
Voltage Rated insulation voltage 500 ° Rated impulse withstand voltage 4000 ° Electric current 20 / Rated current 20 / Rated service breaking capacity Ics AC according 6 k. IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 6 k. 230V AC according IEC60898-1 6 k. Rated ultimate short-circuit breaking capacity Icu 6 k.	Type of supply voltage	AC
Rated insulation voltage 500 ° Rated impulse withstand voltage 4000 ° Electric current 20 ° Rated current 20 ° Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxi threshold value of the AC thermal operation 1,13 / 1,45 I Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230V AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Frequency	50/60 Hz
Rated impulse withstand voltage 4000 1 Electric current 20 2 Rated current 20 2 Rated service breaking capacity Ics AC according 6 k IEC 60898-1 6 k min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230V AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Voltage	
Electric current Rated current 20 / Rated service breaking capacity Ics AC according 6 k IEC 60898-1 6 k min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 1,13 / 1,45 I Magnetic regulating current 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230V AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Rated insulation voltage	500 V
Rated current 20 / Rated service breaking capacity lcs AC according 6 k IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 5 / 10 I Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 6 k 230V AC according IEC60898-1 6 k Rated ultimate short-circuit breaking capacity Icu 6 k	Rated impulse withstand voltage	4000 V
Rated service breaking capacity Ics AC according 6 k. IEC 60898-1 1,13 / 1,45 I min/maxi threshold value of the AC thermal 1,13 / 1,45 I operation 1 Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 6 k. 230V AC according IEC60898-1 230V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu 6 k.	Electric current	
IEC 60898-1 min/maxi threshold value of the AC thermal operation Magnetic regulating currrent Magnetic regulating currrent S / 10 I Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu 6 k.	Rated current	20 A
operation Magnetic regulating currrent 5 / 10 I Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu 6 k	Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
Rated short circuit breaking capacity Icn under 6 k. 230V AC according IEC60898-1 6 k. Rated ultimate short-circuit breaking capacity Icu 6 k.	min/maxi threshold value of the AC thermal operation	1,13 / 1,45 lr
230V AC according IEC60898-1 Rated ultimate short-circuit breaking capacity Icu 6 k	Magnetic regulating currrent	5 / 10 lr
- · ·	Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
	Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	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 A
Rating current -5°C	25,45 A
Rating current 0°C	24,81 A
Rating current 5°C	24,17 A
Rating current 10°C	23,52 A
Rating current 15°C	22,88 A
Rating current 20°C	22,23 A
Rating current 25°C	21,59 A
Rating current 30°C	20 A
Rating current 35°C	20,3 A
Rating current 40°C	19,66 A
Rating current 45°C	19,01 A
Rating current 50°C	19 A
Rating current 55°C	17,73 A
Rating current 60°C	17,08 A
Rating current 65°C	16,44 A
Rating current 70°C	15,79 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
Power	
Total power loss under IN	2,1 W
Power loss per pole at In	2,1 W
Endurance	

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

:hager

Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	17,5 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 / 25mm²
Connection cross-sect. rigid cable	1 / 35mm²
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
Type of connection	with screw
Standards	
Standard text	EN 60898-1
European directive WEEE	concerned
Safety	
Protection index IP	IP20
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
Air humidity protection	for all climates
Storage/transport temperature	-2580 °C