



MC140A

MCB 1P 6kA C-40A 1M

Technical characteristics

Number of poles 1 Type of pole 1 Curve 1 Functions 1 Configuration N Number of modules 1 Connectivity 1 Top connection alignement for modular devices Aligned terminal devices Bottom connection alignement for modular devices Aligned terminal devices Main electrical features 1 Rated short circuit breaking capacity Icn AC according IEC60898-1 6 ko Rated operational voltage Ue 230 / 400' Type of supply voltage Aligned terminal devices Rated insulation voltage Ue 230 / 400' Voltage Au Rated insulation voltage 400' Rated current 400' Rated service breaking capacity Ics AC according IEC60898-1 6 ko min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current 5/ 10 I min/maxi threshold value of the DC mermal operation 7/ 15 I min/maxi threshold value of the DC thermal operation 1.13 / 1.45 II Breaking capacity on 1 pole for IT 400V NF operation 3 ko	Architecture	
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Curve	Number of poles	1 P
Functions Concurrently switching N-neutral N Configuration N Number of modules S Connectivity S Top connection alignement for modular devices Aligned termina Bottom connection alignement for modular devices Aligned termina Main electrical features Aligned termina Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Ue 230 / 400 ° Type of supply voltage Accord operational voltage Ue Yrequency 50/60 H Voltage Autor operation voltage Rated insulation voltage 500 ° Rated insulation voltage 400 ° Electric current 400 ° Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxit threshold value of the AC thermal operation 1.13 / 1.45 i Magnetic regulating currrent 5 / 10 I min/maxit threshold value of the DC memal operation 7 / 15 I min/maxit threshold value of the DC thermal operation 1.13 / 1.45 II Breaking capacity on 1 pole for IT 4000 VF 3 ko Breaking capacity on 1 pole for IT 4000	Type of pole	1 P
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Rated current 40 / Rated service breaking capacity Ics AC 6 k/ according IEC 60898-1 6 k/ min/maxi threshold value of the AC thermal 0 operation 1.13 / 1.45 In Magnetic regulating currrent 5 / 10 In min/maxi threshold value of the DC 7 / 15 In min/maxi threshold value of the DC thermal 0 operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 3 k/ Rated short circuit breaking capacity Icn 3 k/	Rated impulse withstand voltage	4000 V
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 li Magnetic regulating currrent 5 / 10 li min/maxi threshold value of the DC magnetic operation 7 / 15 li min/maxi threshold value of the DC thermal operation 1.13 / 1.45 li Breaking capacity on 1 pole for IT 400V NF 3 k/ Rated short circuit breaking capacity Icn	Electric current	
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operation 1.13 / 1.45 In Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k/ Rated short circuit breaking capacity Icn	min/maxi threshold value of the DC magnetic operation	7 / 15 In
60947-2 3 k/ Rated short circuit breaking capacity Icn	min/maxi threshold value of the DC thermal operation	1.13 / 1.45 In
	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
	Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA

10 kA

Electric current / temperature

Rating current -25°C	46.8 A
Rating current -20°C	46.2 A
Rating current -15°C	45.6 A
Rating current -10°C	45 A
Rating current -5°C	44.4 A
Rating current 0°C	43.8 A
Rating current 5°C	43.2 A
Rating current 10°C	42.6 A
Rating current 15°C	42 A
Rating current 20°C	41.3 A
Rating current 25°C	40.7 A
Rating current 30°C	40 A
Rating current 35°C	39.3 A
Rating current 40°C	38.6 A
Rating current 45°C	37.9 A
Rating current 50°C	37.2 A
Rating current 55°C	36.5 A
Rating current 60°C	35.7 A
Rating current 65°C	35.1 A
Rating current 70°C	34.3 A

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 Correction factor of rating current for 4 and 5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side 0 Correction factor of rating current for 6 devices placed side-by-side 0 Correction factor of magnetic tripping with 100 Hz Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with 400 Hz
devices placed side-by-side 0 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 Correction factor of magnetic tripping with 100 Hz 0 Correction factor of magnetic tripping with 200 Hz 0 Correction factor of magnetic tripping with 200 Hz 0 Correction factor of magnetic tripping with 200 Hz 0 Correction factor of magnetic tripping with 200 Hz 0
5 devices placed side-by-side Correction factor of rating current for 6 devices placed side-by-side 0 Correction factor of magnetic tripping with 100 Hz Correction factor of magnetic tripping with 200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with
devices placed side-by-side 0 Correction factor of magnetic tripping with 0 100 Hz 0 Correction factor of magnetic tripping with 0 200 Hz 0 Correction factor of magnetic tripping with 0 400 Hz 0 Correction factor of magnetic tripping with 0
100 Hz Correction factor of magnetic tripping with Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with
200 Hz Correction factor of magnetic tripping with 400 Hz Correction factor of magnetic tripping with
400 Hz Correction factor of magnetic tripping with
Dimensions
Depth of installed product 70 r
Height of installed product 83 r
Width of installed product 17.5 r

Frequency

Frequency

50 to 60 Hz

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Power
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Total power loss under IN	4.8 W
Power loss per pole at In	4.8 W
Endurance	
Electric endurance in number of cycles	4000
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	Nc
Bottom removability for modular devices	Nc
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
Type of connection	with screw
Standards	
Standard text	EN 60898-1
Safety	
REACH conform	No
RoHS conform	Yes
Halogen free	Να
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
Identification	

Aesthetic for B.G. Protection devices

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