Product data sheet MCN116



MCN116

MCB 1P 6kA C-16A 1M

Architecture

Architecture	ading FZE UAE
Neutral position	without neutral
Number of protected poles	0.
Number of poles	1P
Type of pole	1 P
Fixing mode	Din-Rail
Curve	C

Controls and indicators

With fault indicator	no	
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Connectivity

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

Main electrical features

Frequency	50/60 Hz	
Rated short circuit breaking capacity Icn A	C according 6 kA	
IEC60898-1		
Type of supply voltage	AC	
Rated operational voltage Ue	240/415 V	

Voltage

Rated insulation voltage	500 V	
Rated impulse withstand voltage	4000 V	

Electric current

Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
Magnetic regulating currrent at 40° C	5/10 ln
min/maxi threshold value of the AC thermal operation	1,13/1,45 In



Electric current / temperature

Rating current -15°C	20,81 A
Rating current -20°C	21,31 A
Rating current 0°C	19,31 A
Rating current 10°C	18,31 A
Rating current -10°C	20,41 A
Rating current 15°C	17,81 A
Rating current 20°C	17,31 A
Rating current 25°C	16,81 A
Rating current -25°C	21,82 A
Rating current 30°C	16 A
Rating current 35°C	15,8 A
Rating current 40°C	15,3 A
Rating current 45°C	14,8 A
Rating current 5°C	18,81 A
Rating current -5°C	19,81 A
Rating current 50°C	14,5 A
Rating current 55°C	13,8 A
Rating current 60°C	13,3 A
Rating current 65°C	12,8 A
Rating current 70°C	12,3 A
	Q.s.

Current correction factors

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
Correction factor of rating current for 2 devices place side-by-side	ed 1
Correction factor of rating current for 3 devices place side-by-side	ed 0,8
Correction factor of rating current for 4 and 5 device placed side-by-side	s 0,7
Correction factor of rating current for 6 devices place side-by-side	ed 0,6

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Power

Power loss per pole at In	2,43 W
Total power loss under IN	2,43 W

Endurance

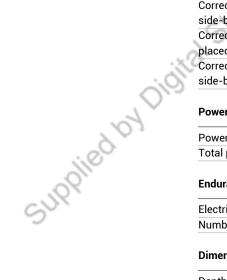
Electric endurance in number of cycles	4000
Number of mechanical operations	20000

Dimensions

Depth of installed product	70 mm
Height of installed product	84,6 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 rail clip for modular devices	plastic
Type of top rail clip for modular devices	NA
Type of Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	yes



Technical Properties	
Top removability for modular devices	no
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Connection	
Connection cross-sect. rigid cable	1 / 35mm²
Connection cross-sect. flexible conductor	1 / 25mm²
Type of connection	with screw
Connection cross section of access and exit with screws, for flexible conductor	1/25 mm²
Connection cross-section of input and output with	1/35 mm²
screws, for massive conductors	1/33 1111
Equipment	JA
Quick connect	no
	41
Standards	Q`
Standard text	IEC 60898-1
European directive WEEE	not concerned
Safety	
Protection index IP	IP20
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Operating temperature	-25 70 °C
Class of energy limitation I ² t	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates
Storage/transport temperature	-25 80 °C