Product data sheet MDN150P



MDN150P

MCB 1P 6kA D-50A 1M

Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	D
Functions	
Concurrently switching N-neutral	no
Sealable	yes
Compatibility	
Compatible with DIN rail mounting	yes
Controls and indicators	
With Contact position indicator	no
With fault indicator	no
Connectivity	
oomicourity	
Top connection alignement for modular devices	Aligned terminal
Top connection alignement for modular devices	Aligned terminal Aligned terminal
Top connection alignement for modular devices Bottom connection alignement for modular devices	
Top connection alignement for modular devices Bottom connection alignement for modular devices Main electrical features	
	Aligned terminal
Top connection alignement for modular devices Bottom connection alignement for modular devices Main electrical features Rated operational voltage Ue	Aligned terminal
Top connection alignement for modular devices Bottom connection alignement for modular devices Main electrical features Rated operational voltage Ue Type of supply voltage Voltage	Aligned terminal
Top connection alignement for modular devices Bottom connection alignement for modular devices Main electrical features Rated operational voltage Ue Type of supply voltage Voltage Rated insulation voltage Max operating voltage	Aligned terminal 240 / 415 V AC
Top connection alignement for modular devices Bottom connection alignement for modular devices Main electrical features Rated operational voltage Ue Type of supply voltage Voltage Rated insulation voltage	Aligned terminal 240 / 415 V AC 500 V

Electric current

Rated current	50 A
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	10 / 14,4 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA
Rated short circuit breaking capacity Icn under 240V AC according IEC 60898-1	6 kA
Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	6 kA
Rated service breaking capacity Ics under 240V AC according IEC 60898-1	6 kA
Rated service breaking capacity Ics under 415V AC according IEC 60898-1	6 kA

Electric current / temperature

Rating current -25°C	65,12 A
Rating current -20°C	63,89 A
Rating current -15°C	62,64 A
Rating current -10°C	61,37 A
Rating current -5°C	60,15 A
Rating current 0°C	58,92 A
Rating current 5°C	57,69 A
Rating current 10°C	56,47 A
Rating current 25°C	52,84 A
Rating current 30°C	50 A
Rating current 35°C	49,4 A
Rating current 40°C	48,22 A
Rating current 45°C	46,72 A
Rating current 50°C	46,96 A
Rating current 55°C	42,77 A
Rating current 60°C	40,33 A
Rating current 65°C	37,57 A
Rating current 70°C	34,49 A

Current correction factors

Correction factor of rating current for 2 devices place side-by-side	d 1
Correction factor of rating current for 3 devices place side-by-side	d 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 place side-by-side	d 0,85
Correction factor of magnetic tripping with 60 Hz	1

Frequency

Frequency	50 to 60 Hz
Power	
Maximum power loss per pole according to the product standard	9 W
Total power loss under IN	4,7 W
Power loss per pole at In	4,7 W

Endurance

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	17,7 mm
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	Blconnect
Top removability for modular devices	yes
Bottom removability for modular devices	yes
Suitable for flush-mounting	yes
360° product mounting position	yes
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Connection	
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,	1 / 35 mm²
upstream terminals with screws	.,
Connection cross-section of the access with screws.	1 / 25 mm²
with flexible conductor	1, 201111
Downstream cage clamp delivery status	opened
Upstream cage clamp delivery status	opened
opsilean cage clamp derivery status	opened
Equipment	
Can be accessorized	yes
With transparent product label holder	yes
Standards	
Standard text	EN 60898-1, AS/NZS 60898-1
European directive WEEE	concerned
Product categories described in the W3E directive	Category 5
2012/19/EU	
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-25 70 °C
Degree of pollution according to IEC 60664 / IEC	2
60947-2	
Altitude	2000 m
Air humidity protection	95% / 55°C
Storage/transport temperature	-25 80 °C

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Temperature of calibration

30 °C