# Product data sheet MCN310



# MCN310

# Architecture

MCB 3P 6kA C-10A 3M

Architecture	Ing FZE UNE
Neutral position	not applicable
Number of protected poles	3
Number of poles	3 P
Type of pole	3 P
Fixing mode	DIN rail type 0 (symmetrical)
Curve	С

# **Controls and indicators**

With fault indicator no	

#### 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 AC according 6 kA IEC60898-1	
Type of supply voltage	AC
Rated operational voltage Ue	415 V

#### Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V

#### **Electric current**

Rated short circuit breaking capacity Icn under 415V AC according IEC 60898-1	6 kA
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
Rated service breaking capacity Ics under 415V 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	12,28 A
Rating current -20°C	12,5 A
Rating current 0°C	11,57 A
Rating current 10°C	11,07 A
Rating current -10°C	12,04 A
Rating current 15°C	10,81 A
Rating current 20°C	10,55 A
Rating current 25°C	10,28 A
Rating current -25°C	12,73 A
Rating current 30°C	10 A
Rating current 35°C	9,71 A
Rating current 40°C	9,42 A
Rating current 45°C	9,12 A
Rating current 5°C	11,32 A
Rating current -5°C	11,81 A
Rating current 50°C	8,8 A
Rating current 55°C	8,48 A
Rating current 60°C	8,14 A
Rating current 65°C	7,78 A
Rating current 70°C	7,41 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	d 1
side-by-side	
Correction factor of rating current for 3 devices place	d 0,95
side-by-side	
Correction factor of rating current for 4 and 5 devices	0,9
placed side-by-side	
Correction factor of rating current for 6 devices place	d 0,85
side-by-side	
Power	

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Power loss per pole at In	1,54 W
Total power loss under IN	4,58 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	83 mm
Width of installed product	52,5 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 Bottom Connection for modular devices	Blconnect
Bottom removability for modular devices	yes
Top removability for modular devices	no



#### Connection

Connection
Connection cross-sect. rigid cable 1 / 35mm <sup>2</sup>
Connection cross-sect. flexible conductor 1 / 25mm <sup>2</sup>
Type of connection with screw
Connection cross section of access and exit with 1/25 mm <sup>2</sup>
screws, for flexible conductor
Connection cross-section of input and output with 1/35 mm <sup>2</sup>
screws, for massive conductors
Equipment
Quick connect no
Standards
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 2 60947-2
Operating temperature -25 70 °C
Class of energy limitation I <sup>2</sup> t 3
Altitude 2000 m
Storage temperature -25 to 80 °C
Air humidity protection for all climates
Storage/transport temperature -25 80 °C
by Digital Sto