# Product Data Sheet MCN425A



7/15 ln

1,13/1,45 In

1,13/1,45 ln



MCN425A

## MCB 4P 6kA C-25A 4M

Technische Merkmale

Rated short circuit breaking capacity Icn AC         according IEC60898-1         Fype of supply voltage         Rated operational voltage Ue         231         /oltage         Rated insulation voltage         Rated insulation voltage         Rated impulse withstand voltage         Electric current         Rated short circuit breaking capacity Icu         under 400V AC IEC 60947-2         Rated short circuit breaking capacity Icu under         400V AC according IEC60898-1         Rated service breaking capacity Ics AC according         EC 60898-1         Breaking capacity on 1 pole with 400 V NF 60947-2         Rated ultimate short-circuit breaking capacity Icu         under 415V AC IEC 60947-2	4
Curve	4 F
Connectivity         Bottom connection alignement for modular devices       Aligned t         Fop connection alignement for modular devices       Aligned t         Fop connection alignement for modular devices       Aligned t         Main electrical features       Stated statement         Frequency       Stated short circuit breaking capacity Icn AC         according IEC60898-1       Frequency         Fype of supply voltage       Stated operational voltage Ue         Rated operational voltage Ue       23t         /oltage       Stated insulation voltage         Rated insulation voltage       Stated short circuit breaking capacity Icu under 400V AC IEC 60947-2         Rated ultimate short-circuit breaking capacity Icu under 400V AC according IEC60898-1       Stated short circuit breaking capacity Icn under 400V AC according IEC60898-1         Rated service breaking capacity Ics AC according EC 60898-1       Stated service breaking capacity Ics AC according EC 60898-1         Breaking capacity on 1 pole with 400 V NF 60947-2       Stated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	4 F
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Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	6 kA
under 415V AC IEC 60947-2	3 k/
	10 kA
Magnetic regulating currrent at 40° C	5/10 Ir

min/maxi threshold value of the DC magnetic

min/maxi threshold value of the AC thermal

min/maxi threshold value of the DC thermal

operation

operation

operation

#### Electric current / temperature

Rating current -15°C	30,5 A
Rating current -20°C	31 A
Rating current 0°C	28,8 A
Rating current 10°C	27,6 A
Rating current -10°C	29,9 A
Rating current 15°C	26,9 A
Rating current 20°C	26,3 A
Rating current 25°C	25,7 A
Rating current -25°C	31,5 A
Rating current 30°C	25 A
Rating current 35°C	24,3 A
Rating current 40°C	23,5 A
Rating current 45°C	22,7 A
Rating current 5°C	28,2 A
Rating current -5°C	29,3 A
Rating current 50°C	21,9 A
Rating current 55°C	21,1 A
Rating current 60°C	20,2 A
Rating current 65°C	19,3 A
Rating current 70°C	18,3 A

# **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 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
placed side-by-side	

## Power

Power loss per pole at In	3,5 W
Total power loss under IN	13,4 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	70 mm

# Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect
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 screws, for massive conductors	1/35 mm²
Standards	
Standard text	EN 60898-1
European directive WEEE	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 <sup>2</sup> t	з
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	for all climates
Storage/transport temperature	-25 80 °C