



MCN306

## MCB 3P 6kA C-6A 3M

## **Technical properties**

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Number of poles 3 P Type of pole 3 P Type of pole 3 P Curve Curve C Curve C Curve C Curve C Concurrently switching N-neutral No Configuration Number of modules 3 Connectivity Top connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 kA Rated operational voltage U 230 / 400 V Type of supply voltage AC Frequency 50/60 Hz Voltage Rated insulation voltage 500 V Rated impulse withstand voltage 500 V Rated current 6 A Rated service breaking capacity Ics AC according IEC 60898-1 6 kA min/maxi threshold value of the AC thermal operation 1.13 / 1.45 in Magnetic regulating current 5 / 10 in min/maxi threshold value of the DC magnetic operation 7 / 15 in min/maxi threshold value of the DC magnetic operation 7 / 15 in 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 Ics	Architecture	
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Functions  Concurrently switching N-neutral No  Configuration  Number of modules 3  Connectivity  Top connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Bottom connection alignement for modular devices Aligned terminal Main electrical features  Rated short circuit breaking capacity Icn AC according IEC60898-1  Rated operational voltage Ue 230 / 400 V  Type of supply voltage AC  Frequency 50/60 Hz  Voltage  Rated insulation voltage 400 V  Electric current  Rated current 6 A  Rated service breaking capacity Ics AC according IEC 60898-1  Gaccording IEC 60898-1  Saled service breaking capacity Ics AC according IEC 60898-1  Saled service pregulating current 5 / 10 In min/maxi threshold value of the DC magnetic operation 7 / 15 In min/maxi threshold value of the DC magnetic operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC thermal operation 1.1.3 / 1.45 In min/maxi threshold value of the DC t	Type of pole	3 P
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Type of supply voltage  Frequency  Voltage  Rated insulation voltage  Rated impulse withstand voltage  Flectric current  Rated current  Rated service breaking capacity Ics AC according IEC 60898-1  min/maxi threshold value of the AC thermal operation  Magnetic regulating current  Magnetic regulating current  min/maxi threshold value of the DC magnetic operation  Tylis In  min/maxi threshold value of the DC thermal operation  Releasing capacity on 1 pole for IT 400V NF 60947-2  Rated short circuit breaking capacity Icn	Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Frequency 50/60 Hz  Voltage  Rated insulation voltage 500 V Rated impulse withstand voltage 4000 V  Electric current  Rated current 6 A Rated service breaking capacity Ics AC according IEC 60898-1 6 kA min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In  Magnetic regulating currrent 5 / 10 In min/maxi threshold value of the DC magnetic operation 7 / 15 In 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	Rated operational voltage Ue	230 / 400 V
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Rated insulation voltage 500 V Rated impulse withstand voltage 4000 V  Electric current  Rated current 6 A Rated service breaking capacity Ics AC according IEC 60898-1 6 kA  min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In  Magnetic regulating current 5 / 10 In  min/maxi threshold value of the DC magnetic operation 7 / 15 In  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	Frequency	50/60 Hz
Rated impulse withstand voltage 4000 V  Electric current  Rated current 6 A  Rated service breaking capacity Ics AC according IEC 60898-1 6 kA  min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In  Magnetic regulating current 5 / 10 In  min/maxi threshold value of the DC magnetic operation 7 / 15 In  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	Voltage	
Electric current  Rated current  6 A  Rated service breaking capacity Ics AC according IEC 60898-1  6 kA  min/maxi threshold value of the AC thermal operation  1.13 / 1.45 In  Magnetic regulating currrent  5 / 10 In  min/maxi threshold value of the DC magnetic operation  7 / 15 In  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	Rated insulation voltage	500 V
Rated current 6 A  Rated service breaking capacity Ics AC according IEC 60898-1 6 kA  min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In  Magnetic regulating current 5 / 10 In  min/maxi threshold value of the DC magnetic operation 7 / 15 In  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	Rated impulse withstand voltage	4000 V
Rated service breaking capacity Ics AC according IEC 60898-1 6 kA min/maxi threshold value of the AC thermal operation 1.13 / 1.45 In Magnetic regulating currrent 5 / 10 In min/maxi threshold value of the DC magnetic operation 7 / 15 In 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	Electric current	
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60947-2 3 kA 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 400V AC according IEC60898-1	6 kA

Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2	10 k
Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2	10 k
Electric current / temperature	
Rating current -25°C	7.5
Rating current -20°C	7.4
Rating current -15°C	7.3
Rating current -10°C	7.1
Rating current -5°C	7 /
Rating current 0°C	6.8
Rating current 5°C	6.7
Rating current 10°C	6.6
Rating current 15°C	6.4
Rating current 20°C	6.3
Rating current 25°C	6.1
Rating current 30°C	6 /
Rating current 35°C	5.8
Rating current 40°C	5.7
Rating current 45°C	5.5
Rating current 50°C	5.3
Rating current 55°C	5.1
Rating current 60°C	5 /
Rating current 65°C	4.8
Rating current 70°C	4.6
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	0.9
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	0.8
Correction factor of magnetic tripping with 100 Hz	1.
Correction factor of magnetic tripping with 200 Hz	1.
Correction factor of magnetic tripping with 400 Hz	1.
Correction factor of magnetic tripping with 60 Hz	
Dimensions	
Depth of installed product	70 mr
Height of installed product	83 mr
Width of installed product	52.5 mr
Frequency	
Frequency	50 to 60 H

Power	
Total power loss under IN	3.8 W
Power loss per pole at In	1.3 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 Bottom Connection for modular devices	Blconnect
Connection	
Connection cross-sect. flexible conductor	1 / 25mm²
Connection cross-sect. rigid cable	1 / 35mm²
Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
Type of connection	with screw
Standards	
Standard text	EN 60898-1
Safety	
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature