



MCN463A

## MCB 4P 6kA C-63A 4M

**Technical properties** 

Type of pole       4         Curve       Functions         Functions       N         Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned termina         Bottom connection alignement for modular devices       Aligned termina         Main electrical features       Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       230 / 400       Type of supply voltage       A         Frequency       50/60 H       Voltage       A         Voltage       A       3       A         Rated insulation voltage       500       600       4000       1000       1000         Electric current       63       8       8       6000       10000       1000       1000       1000 <th>Number of protected poles</th> <th>4</th>	Number of protected poles	4
Curve Functions Concurrently switching N-neutral Configuration Number of modules Connectivity Top connection alignement for modular devices Aligned termine Bottom connection alignement for modular devices Aligned termine Main electrical features Rated short circuit breaking capacity Icn AC according IEC60898-1 6 k Rated operational voltage Ue 230 / 400 Type of supply voltage Frequency Soloco H Voltage Rated insulation voltage Electric current Rated insulation voltage Electric current Rated current 63 Rated service breaking capacity Ics AC according IEC 60898-1 6 k min/maxit threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating current Frequency 7 / 15 I min/maxit threshold value of the DC magnetic operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF Breaking capacity Icn Rated short circuit breaking capacity Icn Rated short circuit breaking capacity Icn	Number of poles	4
Functions         Concurrently switching N-neutral       N         Configuration       N         Number of modules       Connectivity         Top connection alignement for modular devices       Aligned termine         Bottom connection alignement for modular devices       Aligned termine         Main electrical features       Aligned termine         Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       230 / 400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Electric current       63         Rated insulation voltage       500         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxit threshold value of the AC thermal operation       1.13 / 1.45 1         Magnetic regulating current       5 / 10 1         min/maxit threshold value of the DC magnetic operation       7 / 15 1         min/maxit threshold value of the DC thermal operation       1.13 / 1.45 1         Breaking capacity on 1 pole for IT 4000 NF       3 k         Rated short circuit breaking capacity Icn       3 k	Type of pole	4
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Number of modules  Connectivity  Top connection alignement for modular devices Aligned termine Bottom connection alignement for modular devices Aligned termine  Main electrical features  Rated short circuit breaking capacity Icn AC according IEC60899-1 6 k Rated operational voltage Ue 230 / 400 Type of supply voltage  Rated insulation voltage Rated insulation voltage Rated insulation voltage  Rated insulation voltage  Electric current Rated current 63 Rated service breaking capacity Ics AC according IEC 6089-1 6 k min/maxi threshold value of the AC thermal operation 1.13 / 1.45 I Magnetic regulating currrent 5 / 10 I min/maxi threshold value of the DC magnetic operation 1.13 / 1.45 I Breaking capacity on 1 pole for IT 400V NF 60947-2 3 k Rated short circuit breaking capacity Icn	Concurrently switching N-neutral	Ν
Connectivity         Top connection alignement for modular devices       Aligned terminal devices         Bottom connection alignement for modular devices       Aligned terminal devices         Main electrical features       Rated short circuit breaking capacity Icn AC according IEC60898-1       6 k         Rated operational voltage Ue       230 / 400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Rated insulation voltage       500         Rated insulation voltage       500         Rated current       63         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 1         Magnetic regulating current       5 / 10 1         min/maxi threshold value of the DC thermal operation       7 / 15 1         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 1         Breaking capacity on 1 pole for IT 400V NF 60947-2       3 k         Rated short circuit breaking capacity Icn       3 k	Configuration	
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Rated short circuit breaking capacity Icn AC       6 k         according IEC60898-1       6 k         Rated operational voltage Ue       230 / 400         Type of supply voltage       A         Frequency       50/60 H         Voltage       4000         Rated insulation voltage       500         Rated impulse withstand voltage       4000         Electric current       63         Rated current       63         Rated service breaking capacity Ics AC       6 k         according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       3 k         Rated short circuit breaking capacity Icn       3 k	Main electrical features	
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Electric current       63         Rated current       63         Rated service breaking capacity Ics AC according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC magnetic operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       7 / 15 I         min/maxi threshold value of the DC thermal operation       3 k         Rated short circuit breaking capacity Icn       3 k	Rated insulation voltage	500
Rated current       63         Rated service breaking capacity Ics AC       6         according IEC 60898-1       6 k         min/maxi threshold value of the AC thermal       0         operation       1.13 / 1.45 I         Magnetic regulating currrent       5 / 10 I         min/maxi threshold value of the DC       7 / 15 I         min/maxi threshold value of the DC thermal       0         operation       1.13 / 1.45 I         Breaking capacity on 1 pole for IT 400V NF       3 k         Rated short circuit breaking capacity Icn       3 k	Rated impulse withstand voltage	4000 '
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60947-2 3 k Rated short circuit breaking capacity Icn	min/maxi threshold value of the DC thermal operation	1.13 / 1.45
	Breaking capacity on 1 pole for IT 400V NF 60947-2	3 k
	Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 k

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Electric current / temperature	
Rating current -25°C	78.4 A
Rating current -20°C	77 A
Rating current -15°C	75.6 A
Rating current -10°C	74.1 A
Rating current -5°C	72.7 A
Rating current 0°C	71.3 A
Rating current 5°C	69.9 A

Rating current -20°C	77 A
Rating current -15°C	75.6 A
Rating current -10°C	74.1 A
Rating current -5°C	72.7 A
Rating current 0°C	71.3 A
Rating current 5°C	69.9 A
Rating current 10°C	68.5 A
Rating current 15°C	67.1 A
Rating current 20°C	65.6 A
Rating current 25°C	64.2 A
Rating current 30°C	63 A
Rating current 35°C	61.4 A
Rating current 40°C	60 A
Rating current 45°C	58.6 A
Rating current 50°C	57 A
Rating current 55°C	55.7 A
Rating current 60°C	54.3 A
Rating current 65°C	52.9 A
Rating current 70°C	51.5 A

## **Current correction factors**

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
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
Dimensions	
Depth of installed product	70 mm
Height of installed product	83 mm
Width of installed product	70 mm
Frequency	
Frequency	50 to 60 Hz

Total power loss under IN	25.6 W
Power loss per pole at In	7.2 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-section of input and output with screws, for massive conductors	1 / 35 mm
Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm
Standards	
Standard text	EN 60898-2
European directive WEEE	concerned
Safety	
Protection index IP	IP20
RoHS conform	Yes
Halogen free	Να
Use conditions	
Operating temperature	-2570 °C
Class of energy limitation I²t	3
Altitude	2000 n
Storage/transport temperature	-2580 °C