

:hager

NB450A

MCB 4P 10kA B-50A 4M

Technical properties

Number of protected poles	
Number of poles	4
Curve	
Functions	
Concurrently switching N-neutral	Ν
Configuration	
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	10 k
Rated operational voltage Ue	230 / 400
Type of supply voltage	A
Frequency	50/60 H
Voltage	
Rated insulation voltage	500
Rated impulse withstand voltage	4000
Electric current	
Rated current	50
Rated service breaking capacity Ics AC according IEC 60898-1	10 k
min/maxi threshold value of the AC thermal operation	1.13 / 1.45
Magnetic regulating currrent	3 / 5
min/maxi threshold value of the DC magnetic operation	3 / 7.5
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

Electric current / temperature

Rating current 20°C	54 A
Rating current 30°C	50 A
Rating current 35°C	48 A
Rating current 40°C	46 A
Rating current 45°C	44 A
Rating current 50°C	42 A
Rating current 55°C	40 A
Rating current 60°C	38 A
Rating current 70°C	34 A

Current correction factors

1
0.95
0.9
0.85
1.1
1.2
1.5
1
70 mm
83 mm
70 mm
50 to 60 Hz

Total power loss under IN	19.2 W
Power loss per pole at In	4.8 W
Endurance	
Electric endurance in number of cycles	10000

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 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
European directive WEEE	not concerned
Safety	
Protection index IP	IP20
Use conditions	
Operating temperature	-2570 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I²t	3
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-2580 °C