

# MCB 4P 10kA C-125A 6M

# HLF499S

### Architecture

Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	С
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 A	C according 10 kA	
IEC60898-1		
Type of supply voltage	AC	
Rated operational voltage Ue	415 V	

#### Voltage

Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

### Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	10 kA
Rated short circuit breaking capacity Icn under 230V	10 kA
AC according IEC60898-1	
Rated short circuit breaking capacity Icn under 400V	10 kA
AC according IEC60898-1	
Rated service breaking capacity Ics AC according IEC	7,5 kA
60898-1	
Rated service breaking capacity Ics AC according IEC	75 %
60947-2	
Breaking capacity on 1 pole with 400 V NF 60947-2	4,5 kA
Breaking capacity on 1 pole with 415 V NF 60947-2	4,5 kA
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 230V AC IEC 60947-2	
Rated ultimate short-circuit breaking capacity Icu	10 kA
under 240V AC IEC 60947-2	



Technical Properties Rated ultimate short-circuit breaking capacity Icu	10 kA
under 415V AC IEC 60947-2	TO KA
Magnetic regulating currrent at 40° C	5/10 ln
min/maxi threshold value of the AC thermal operation	
Electric current / temperature	
Rating current 30°C	125 A
Rating current 35°C	122 A
Rating current 40°C	119 A
Rating current 45°C	115,7 A
Rating current 50°C	112 A
Rating current 55°C	109,1 A
Rating current 60°C	105,6 A
Rating current 40°C according to IEC 60947-2	125 A
Rating current 45°C according to IEC 60947-2	122 A
Rating current 50°C according to IEC 60947-2	119 A
Rating current 55°C according to IEC 60947-2	115,7 A
Rating current 60°C according to IEC 60947-2	112 A
Rating current 65°C according to IEC 60947-2	109,1 A
Rating current 70°C according to IEC 60947-2	105,6 A
Current correction factors	
Correction factor of rating current for 2 devices placed	 I 1
side-by-side	• •
Correction factor of rating current for 3 devices placed	1095
side-by-side	. 0,50
Correction factor of rating current for 4 and 5 devices	0.9
placed side-by-side	0,5
Correction factor of rating current for 6 devices placed	10.85
side-by-side	. 0,00
2,	
Power	
Power loss per pole at In	11,56 W
Total power loss under IN	42,25 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	90 mm
Width of installed product	106 mm
Installation, mounting	
Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
Type of bottom rail clip for modular devices	plastic
Type of top rail clip for modular devices	Plastic
Type of Bottom Connection for modular devices	with screw
Bottom removability for modular devices	yes
Top removability for modular devices	yes



Connection	
Connection cross-section at output with screw, for	1/50 mm²
flexible conductor	
Connection cross-section of the access with screws, with flexible conductor	1/50 mm²
Connection cross-section at output with screw, for massive conductor	1/70 mm²
Connection cross-section for rigid conductor, upstream terminals with screws	1/70 mm²
Connection cross-sect. rigid cable	70mm²
Connection cross-sect. flexible conductor	50mm²
Nominal tightening torque bottom terminal	3,6 Nm
Nominal tightening torque top terminal	3,6 Nm
Type of connection	terminal with tightening
•	compensation system
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Standard text	EN 60898-1, IEC 60947-2 concerned
Standard text European directive WEEE	EN 60898-1, IEC 60947-2
Standard text European directive WEEE Safety	EN 60898-1, IEC 60947-2
Standards Standard text European directive WEEE Safety Protection index IP Use conditions	EN 60898-1, IEC 60947-2 concerned
Standard text European directive WEEE  Safety Protection index IP	EN 60898-1, IEC 60947-2 concerned
Standard text European directive WEEE  Safety  Protection index IP  Use conditions  Degree of pollution according to IEC 60664 / IEC 50947-2	EN 60898-1, IEC 60947-2 concerned
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30 °C

Temperature of calibration