



HLF290S

MCB 2P 10kA C-100A 3M

Technical properties

Number of protected poles	2
Number of poles	2 P
Type of pole	2 P
Curve	C
Functions	
Concurrently switching N-neutral	Nc
Configuration	
Number of modules	3
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 kA
Rated operational voltage Ue	415 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	100 A
Rated service breaking capacity Ics AC according IEC 60898-1	7.5 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 lr
Magnetic regulating currrent	5 / 10 Ir
Rating current 10°C according to IEC 60947	124 <i>A</i>
Rating current 15°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 4
Rating current 25°C according to IEC 60947	112 /
Rating current 30°C according to IEC 60947	108 /
	104 <i>A</i>

Rating current 40°C according to IEC 60947	100 A
Rating current 45°C according to IEC 60947	96.6 A
Rating current 50°C according to IEC 60947	93.1 A
Rating current 55°C according to IEC 60947	89.4 A
Rating current 60°C according to IEC 60947	85.6 A
Rating current 65°C according to IEC 60947	81.6 A
Rating current 70°C according to IEC 60947	77.5 A
Breaking capacity on 1 pole for IT 400V NF 60947-2	4.5 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	4.5 kA
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	10 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	10 kA
Rated service breaking capacity Ics AC according IEC 60947-2	75 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	10 kA
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 0°C	124 A
Rating current 5°C	120 A
Rating current 10°C	116 A
Rating current 15°C	112 A
Rating current 20°C	108 A
Rating current 25°C	104 A
Rating current 30°C	100 A
Rating current 35°C	96.6 A
Rating current 40°C	93.1 A
Rating current 45°C	89.4 A
Rating current 50°C	85.6 A
Rating current 55°C	81.6 A
Rating current 60°C	77.5 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
Dimensions	
Depth of installed product	70 mm

Height of installed product	90 mn
Width of installed product	53 mn
Frequency	
Frequency	50 to 60 H
Power	
Total power loss under IN	16.33 V
Power loss per pole at In	9.12 V
Endurance	
Electric endurance in number of cycles	400
Number of mechanical operations	2000
Installation, mounting	
Type of top connection for modular devices	with scre
Type of top rail clip for modular devices	Plast
Type of bottom rail clip for modular devices	plast
Type of Bottom Connection for modular devices	with scre
Top removability for modular devices	Ye
Bottom removability for modular devices	Ye
Connection	
Connection cross-section at output with	
screw, for flexible conductor	1 / 50 mm
Connection cross-section at output with screw, for massive conductor	1 / 70 mm
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm
Standards	
Standard text	EN 60898-1 ; IEC 60947-
European directive WEEE	concerne
Safety	
Protection index IP	IP2
Use conditions	
Degree of pollution according to IEC 60664 /	
IEC 60947-2	
Class of energy limitation I ² t	
Altitude	2000 г
temperatur	
Temperature of calibration	30 °