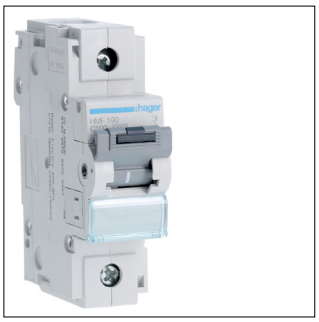
Product Datasheet
HMF190T



HMF190

MCB 1P 10kA C-100A 1.5M

Technical Features

Electric current	
Rated current IN	100 A
Rated short-circuit breaking capacity Icn under 230 V AC according to IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity Icu AC IEC 60947-2	10 kA
Rated current at -15°C	131.05 A
Rated current at -10°C	127.6 A
Rated current at -5°C	124.15 A
Rated current at 0°C	120.7 A
Rated current at 5°C	117.25 A
Rated current at 10°C	113.8 A
Rated current at 15°C	110.35 A
Rated current at 20°C	106.9 A
Rated current at 25°C	103.45 A
Rated current at 30°C	100 A
Rated current at 35°C	96.55 A
Rated current at 40°C	93.1 A
Rated current at 45°C	89.65 A
Rated current at 50°C	86.2 A
Rated current at 55°C	82.75 A
Rated current at 60°C	79.3 A
Rated current at 65°C	75.85 A
Rated current at 70°C	72.4 A
Architecture	
Type of pole	1P
Electric current	
Rated service breaking capacity Ics AC according to IEC 60947-2	75 %
Rated service breaking capacity Ics AC according to IEC 60898-1	7.5 kA
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	10 kA
Architecture	
Curve	C
Capacity	
Number of modules	1.50
Main electrical attributes	
Rated short-circuit breaking capacity Icn AC according to IEC 60898-1	10 kA
Installation, mounting	
Nominal tightening torque top terminal	3.60 - 3.60 Nm
Nominal tightening torque down terminal	3.60 - 3.60 Nm
Nominal tightening torque	3.5 - 5.0 Nm
Voltage	
Rated operational voltage Ue	230 - 415 V
Type voltage supply	AC
Rated insulation voltage Ui	500 V
Rated impulse withstand voltage Uimp	6000 V
Frequency	
Frequency	50 - 60 Hz
Connection	
Cross-section of input and output with screws, for massive conductors	1 - 70 mm^2
Cross-section of input and output with screws, for flexible conductors	1 - 50 mm^2
Cross-section of input with screws, for flexible conductors	1 - 50 mm^2
Cross-section of input with screws, for massive conductors	1 - 70 mm^2

Connection	
Cross-section flexible conductor	50 mm^2
Cross-section rigid conductor	70 mm^2
Installation, mounting	
Type of bottom connection for modular devices	Screw terminal
Type of top connection for modular devices	Screw terminal
360° mounting position possible	Yes
Safety	
Ingress Protection (IP) class	IP20
Grid distance	110 mm
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Class of energy limitation I^2t	3
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C
Power	
Power dissipation at IN	6.48 W
Connectivity	
Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal
Dimensions	
Width	27 mm
Height	90 mm
Depth	70 mm
Endurance	
Electric endurance in number of cycles	4000
Sustainability	
REACh-SVHC free	Yes
RoHS conform	Yes