



HLF380S

MCB 3P 10kA C-80A 4.5M

Technical Features

Architecture

Type of pole	3P
Curve	C

Voltage

Rated operational voltage U_e	415 - 415 V
Type voltage supply	AC
Rated insulation voltage U_i	500 V
Rated impulse withstand voltage U_{imp}	6000 V

Frequency

Frequency	50 - 60 Hz
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Installation, mounting

Nominal tightening torque	3.5 - 5.0 Nm
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	Screw terminal

Electric current

Rated current	80 A
Rated service breaking capacity I_{cs} AC according to IEC 60898-1	7.50 kA
Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 60898-1	10 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 230 V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity I_{cu} under 400 V AC IEC 60947-2	10 kA

Main electrical attributes

Rated short-circuit breaking capacity I_{cn} AC according to IEC 60898-1	10 kA
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Installation, mounting

Nominal tightening torque down terminal	3.60 - 3.60 Nm
Nominal tightening torque top terminal	3.60 - 3.60 Nm

Safety

Ingress Protection (IP) class	IP20
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Power

Total power loss under I_N	20.32 W
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Endurance

Electric endurance in number of cycles	4000
Number of mechanical operations	20000

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 flexible conductor	50 mm ²
Cross-section rigid conductor	70 mm ²

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

Capacity

Number of modules	4.50
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Connectivity

Top connection alignment for modular devices	Aligned terminal
Down connection alignment for modular devices	Aligned terminal

Dimensions

Height	90 mm
Width	80 mm
Depth	70 mm

Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes