



HLF390S

**MCB 3P 10kA C-100A 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	100 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 $I_N$	21.66 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 <sup>2</sup>
Cross-section of input and output with screws, for flexible conductors	1 - 50 mm <sup>2</sup>
Cross-section flexible conductor	50 mm <sup>2</sup>
Cross-section rigid conductor	70 mm <sup>2</sup>

**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

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**Dimensions**

Height	90 mm
Width	80 mm
Depth	70 mm

**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes