



HMB490

**MCB 4P 15kA B-100A 6M**

**Technical Features**

**Architecture**

Type of pole	4P
Curve	B

**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	15 kA
Rated ultimate short-circuit breaking capacity $I_{cu}$ under 230 V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity $I_{cu}$ under 400 V AC IEC 60947-2	15 kA
Rated current at 0°C	124 A
Rated current 5°C	120 A
Rated current 10°C	116 A
Rated current 15°C	112 A
Rated current at 20°C	108 A
Rated current 25°C	104 A
Rated current 30°C	100 A
Rated current 35°C	96.60 A
Rated current at 40°C	93.10 A
Rated current at 45°C	89.40 A
Rated current at 50°C	85.60 A
Rated current 55°C	81.60 A
Rated current 60°C	77.50 A

**Main electrical attributes**

Rated short-circuit breaking capacity $I_{cn}$ AC according to IEC 60898-1	15 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 $I_N$	28.10 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>

**Connection**

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
Air humidity protection	For all climates
Operating temperature	-25 - 70 °C

**Capacity**

Number of modules	6
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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	106 mm
Depth	70 mm

**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes

**Illustrations | Drawings**

