



HMD199

### MCB 1P 15kA D-125A 1.5M

Product Datasheet

#### Architecture

Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	D

#### Functions

Concurrently switching N-neutral	no
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#### Connectivity

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

#### Main electrical features

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	15 kA
Rated operational voltage $U_e$	240 / 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	125 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 In
Magnetic regulating current	10 / 20 In
Rating current 40°C according to IEC 60947	125 A
Rating current 45°C according to IEC 60947	122 A
Rating current 50°C according to IEC 60947	119 A
Rating current 55°C according to IEC 60947	115,7 A
Rating current 60°C according to IEC 60947	112 A
Rating current 65°C according to IEC 60947	109,1 A
Rating current 70°C according to IEC 60947	105,6 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	15 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	15 kA
Rated service breaking capacity Ics AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	15 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	15 kA

**Electric current / temperature**

Rating current 30°C	125 A
Rating current 35°C	122 A
Rating current 40°C	119 A
Rating current 45°C	115,7 A
Rating current 50°C	112 A
Rating current 55°C	109,1 A
Rating current 60°C	105,6 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

**Frequency**

Frequency	50 to 60 Hz
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### Power

Total power loss under IN	9,93 W
Power loss per pole at In	9,93 W

### Endurance

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

### Dimensions

Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	27 mm

### Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	3,5 to 5Nm
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic
Type of Bottom Connection for modular devices	with screw
Top removability for modular devices	yes
Bottom removability for modular devices	yes
360° product mounting position	yes

### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 50 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 70 mm <sup>2</sup>
Connection cross-sect. flexible conductor	50mm <sup>2</sup>
Connection cross-sect. rigid cable	70mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm <sup>2</sup>
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm <sup>2</sup>
Type of connection	terminal with tightening compensation system
Nominal tightening torque bottom terminal	3,6 Nm
Nominal tightening torque top terminal	3,6 Nm

### Standards

Standard text	EN 60898-1, IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5

### Safety

Protection index IP	IP20
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**Use conditions**

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Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	for all climates

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Temperature of calibration	30 °C
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