



MW116

**MCB 1P 3kA C-16A 1M**

**Technical properties**

**Architecture**

Neutral position	without neutral
Number of poles	1 P
Type of pole	1 P
Fixing mode	DIN rail type O (symmetrical)
Curve	C

**Functions**

Concurrently switching N-neutral	No
----------------------------------	----

**Configuration**

Number of modules	1
-------------------	---

**Connectivity**

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

**Main electrical features**

Rated operational voltage Ue	230 / 400 V
Type of supply voltage	AC

**Voltage**

Rated insulation voltage	500 V
Max operating voltage	415 V
Rated impulse withstand voltage	4000 V

**Electric current**

Rated current	16 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating current	5 / 10 In
Rated short circuit breaking capacity Icn under 230V AC according IEC60898-1	3 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	3 kA

**Electric current / temperature**

Rating current -25°C	22.48 A
Rating current -20°C	21.91 A
Rating current -15°C	21.33 A

Rating current -10°C	20.82 A
Rating current -5°C	20.19 A
Rating current 0°C	19.61 A
Rating current 5°C	19.04 A
Rating current 10°C	18.47 A
Rating current 15°C	17.9 A
Rating current 20°C	17.32 A
Rating current 25°C	16.75 A
Rating current 30°C	16 A
Rating current 35°C	15.6 A
Rating current 40°C	15.03 A
Rating current 45°C	14.46 A
Rating current 50°C	14 A
Rating current 55°C	13.31 A
Rating current 60°C	12.74 A
Rating current 65°C	12.17 A
Rating current 70°C	11.59 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

#### Dimensions

Depth of installed product	70 mm
Width of installed product	17.5 mm

#### Power

Maximum power loss per pole according to the product standard	3.5 W
Power loss per pole at In	2.32 W

#### Endurance

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

#### Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2,8Nm
Type of Bottom Connection for modular devices	Blconnect

#### Connection

Connection cross-section at output with screw, for flexible conductor	1 / 25 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 35 mm <sup>2</sup>

---

Connection cross-section for rigid conductor, upstream terminals with screws	1 / 35 mm <sup>2</sup>
--	------------------------

---

Connection cross-section of the access with screws, with flexible conductor	1 / 25 mm <sup>2</sup>
---	------------------------

---

**Equipment**

---

Can be accessorized	No
---------------------	----

---

**Standards**

---

Standard text	IEC 60898-1
---------------	-------------

---

European directive WEEE	concerned
-------------------------	-----------

---

**Safety**

---

Protection index IP	IP20
---------------------	------

---

**Use conditions**

---

Operating temperature	-25...70 °C
-----------------------	-------------

---

Class of energy limitation I <sup>2</sup> t	3
---	---

---

Altitude	2000 m
----------	--------

---

Storage/transport temperature	-25...80 °C
-------------------------------	-------------

---

**temperatur**

---

Temperature of calibration	30 °C
----------------------------	-------