



## MCCB h3 x160 TM 1x80A 25kA

HHA078Z

### Architecture

Neutral position	without neutral
Number of protected poles	1
Number of poles	1 P
Type of pole	1P1D

### Functions

Trip Unit	TM F/F
Concurrently switching N-neutral	no

### Compatibility

Compatible with DIN rail mounting	no
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### Controls and indicators

Motor drive integrated	no
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### Main electrical features

Rated operational voltage Ue	220 / 240 V
Frequency	50/60 Hz

### Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	8 kV
With under voltage release	no

### Electric current

Rated current	80 A
Thermal protection nob setting xIN	1
Rating current 10°C according to IEC 60947	106,9 A
Rating current 150°C according to IEC 60947	103,9 A
Rating current 20°C according to IEC 60947	100,9 A
Rating current 25°C according to IEC 60947	97,7 A
Rating current 30°C according to IEC 60947	94,4 A
Rating current 35°C according to IEC 60947	91 A
Rating current 40°C according to IEC 60947	87,5 A
Rating current 45°C according to IEC 60947	83,8 A
Rating current 50°C according to IEC 60947	80 A

Technical Properties

Rating current 55°C according to IEC 60947	75,9 A
Rating current 60°C according to IEC 60947	71,6 A
Rating current 65°C according to IEC 60947	67,1 A
Rating current 70°C according to IEC 60947	62,2 A
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	25 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	25 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	25 kA
Rated service breaking capacity Ics under 380V AC according IEC 60947-2	20 kA
Rated service breaking capacity Ics under 400V AC according IEC 60947-2	20 kA
Rated service breaking capacity Ics under 415V AC according IEC 60947-2	20 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	80 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 kA

**Frequency**

Frequency	50 to 60 Hz
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**Power**

Total power loss under IN	4,8 W
Power loss per pole at In	4,8 W

**Endurance**

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

**Dimensions**

Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	25 mm
Critical distance switching emission/earthed part bottom	40 mm
Critical distance switching emission/earthed part left	50 mm
Critical distance switching emission/earthed part right	50 mm
Critical distance switching emission/earthed part top	40 mm
Critical distance switching emission/insulated plate	30 mm
Critical distance switching emission/live part	50 mm

**Connection**

Type of connection	with screw
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**Settings**

Range of the magnetic adjustment	1000 A
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**Equipment**

Can be accessorized	yes
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**Standards**

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

**Safety**

Protection index IP	IP4X
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**Use conditions**

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

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Temperature of calibration	50 °C
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