



HDA080U

### Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 80A 18kA CTC

#### Technical characteristics

##### Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
Type of case	Fixed built-in

##### Functions

Complete device with protection unit	Yes
Trip Unit	TM A/F
Integrated earth fault protection	No
Concurrently switching N-neutral	No

##### Controls and indicators

Motor drive integrated	No
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##### Main electrical features

Rated operational voltage Ue	220 / 415 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	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	93.2 A
Rating current 15°C according to IEC 60947	91.6 A
Rating current 20°C according to IEC 60947	90.1 A
Rating current 25°C according to IEC 60947	88.5 A
Rating current 30°C according to IEC 60947	86.8 A
Rating current 35°C according to IEC 60947	85.2 A
Rating current 40°C according to IEC 60947	83.5 A
Rating current 45°C according to IEC 60947	81.7 A
Rating current 50°C according to IEC 60947	80 A
Rating current 55°C according to IEC 60947	78.1 A

Rating current 60°C according to IEC 60947	76.3 A
Rating current 65°C according to IEC 60947	74.4 A
Rating current 70°C according to IEC 60947	72.4 A
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	18 kA
Range of the thermal adjustment	50 / 63 / 80 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	18 kA

### Dimensions

Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm

### Frequency

Frequency	50 to 60 Hz
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### Power

Power loss per pole at 0.63*In	4.2 W
Power loss per pole at 0.8*In	6.6 W
Total power loss at 0.63*In	12.5 W
Total power loss at 0.8*In	19.9 W
Total power loss under IN	32.1 W
Power loss per pole at In	10.7 W

### Endurance

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

### Installation, mounting

DIN rail mounting with optional adaptor	No
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### Connection

Connection	Front connection
Type of connection	with screw

### Settings

Range of the magnetic adjustment	1000 A
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### Equipment

Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	No

Can be accessorized

Yes

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**Standards**

Standard text

IEC 60947-2

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**Safety**

REACH conform

Yes

RoHS conform

Yes

Halogen free

No

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**Use conditions**

Degree of pollution according to IEC 60664 /  
IEC 60947-2

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Altitude

2000 m

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**temperatur**

Temperature of calibration

50 °C