



HHA050Z

**Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 50A 25kA CTC**

**Technical Features**

**Electric current**

Rated current	50 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	35 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	20 kA
Rated current 10°C according to IEC 60947	60.40 A
Rated current 15°C according to IEC 60947	59.20 A
Rated current 20°C according to IEC 60947	58 A
Rated current 25°C according to IEC 60947	56.70 A
Rated current 30°C according to IEC 60947	55.40 A
Rated current at 35°C according to IEC 60947	54.10 A
Rated current at 40°C according to IEC 60947	52.80 A
Rated current 45°C according to IEC 60947	51.40 A
Rated current 50°C according to IEC 60947	50 A
Rated current 55°C according to IEC 60947	48.50 A
Rated current at 60°C according to IEC 60947	47 A
Rated current 65°C according to IEC 60947	45.40 A
Rated current 70°C according to IEC 60947	43.80 A

**Architecture**

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

**Tripping**

Response time when opening	10 ms
----------------------------	-------

**Frequency**

Frequency	50 - 60 Hz
-----------	------------

**Voltage**

Rated impulse withstand voltage U <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	690 V

**Functions**

Trip unit	TM F/F
-----------	--------

**Power**

Total power loss under I <sub>N</sub>	17.30 W
---------------------------------------	---------

**Endurance**

Electric endurance in number of cycles	10000
Number of mechanical operations	20000

**Safety**

Ingress Protection (IP) class	IP4X
-------------------------------	------

**Connection**

Cross-section flexible conductor	4 - 70 mm <sup>2</sup>
Cross-section rigid conductor	4 - 95 mm <sup>2</sup>

**Installation, mounting**

Mounting-/Connection Position	Front
-------------------------------	-------

**Connectivity**

Type of connection	Screw terminal
--------------------	----------------

---

**Settings**

Thermal protection knob setting xIN	1
	1

---

**Dimensions**

Height	130 mm
Width	75 mm
Depth	68 mm

---

**Compatibility**

Suitable for DIN Rail	Yes
-----------------------	-----

---

**Main electrical attributes**

Magnetic protection trip time	0 - 0 ms
-------------------------------	----------

---

**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes