



HDA051Z

Moulded Case Circuit Breaker h3 x160 TM FIX 4P4D 50A 18kA CTC

Technical Features

Electric current

Rated current	50 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	25 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	18 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	4
Control/operation element	Toggle
Device construction type	Fixed built-in

Tripping

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

Frequency

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

Voltage

Rated impulse withstand voltage U _{imp}	8000 V
Rated insulation voltage U _i	690 V
Rated operational voltage U _e	220 - 415 V

Functions

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

Power

Total power loss under I _N	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 ²
Cross-section rigid conductor	4 - 95 mm ²

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	100 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