



HDA100Z

Moulded Case Circuit Breaker X160 3P 18kA 100A

Technical Features

Electric current

Rated current	100 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 ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2	4 kA
Rated current 10°C according to IEC 60947	120.50 A
Rated current 15°C according to IEC 60947	118.10 A
Rated current 20°C according to IEC 60947	115.70 A
Rated current 25°C according to IEC 60947	113.20 A
Rated current 30°C according to IEC 60947	110.70 A
Rated current at 35°C according to IEC 60947	108.10 A
Rated current at 40°C according to IEC 60947	105.50 A
Rated current 45°C according to IEC 60947	102.70 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	97.10 A
Rated current at 60°C according to IEC 60947	94.10 A
Rated current 65°C according to IEC 60947	91.10 A
Rated current 70°C according to IEC 60947	87.90 A

Architecture

Number of poles	3
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

Functions

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

Power

Total power loss under I _N	39 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

Nominal tightening torque	6 - 6 Nm
Mounting-/Connection Position	Front

Connectivity

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

Settings

Thermal protection knob setting xIN	1
	1
Adjustment range short-term delayed short-circuit release	0 - 0 A

Compatibility

Suitable for DIN Rail	No
-----------------------	----

Main electrical attributes

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