



HES100DC

Moulded Case Circuit Breaker h3+ P160 TM ADJ 3P3D 100A 70kA CTC

Technical Features

Electric current

Rated current	100 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 660 V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	124.30 A
Rated current 15°C according to IEC 60947	121.50 A
Rated current 20°C according to IEC 60947	118.70 A
Rated current 25°C according to IEC 60947	115.80 A
Rated current 30°C according to IEC 60947	112.80 A
Rated current at 35°C according to IEC 60947	109.70 A
Rated current at 40°C according to IEC 60947	106.60 A
Rated current 45°C according to IEC 60947	103.30 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	96.50 A
Rated current at 60°C according to IEC 60947	93 A
Rated current 65°C according to IEC 60947	89.20 A
Rated current 70°C according to IEC 60947	85.30 A

Architecture

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

Frequency

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

Voltage

Rated impulse withstand voltage U _{imp}	8000 V
Rated insulation voltage U _i	800 V
Rated operational voltage U _e	220 - 690 V

Functions

Trip unit	TM A/A
-----------	--------

Power

Total power loss under I _N	20.10 W
---------------------------------------	---------

Endurance

Electric endurance in number of cycles	10000
Number of mechanical operations	40000

Safety

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

Connection

Cross-section flexible conductor	6 - 70 mm ²
Cross-section rigid conductor	6 - 95 mm ²

Connectivity

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

Cover, door

Interlockable	Yes
---------------	-----

Settings

Thermal protection knob setting xIN	0.63 0.8 1
-------------------------------------	------------------

Cable

Cable material	Copper
----------------	--------

Compatibility

Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes

Dimensions

Dimensions	130 x 90 mm
Height	130 mm
Width	90 mm
Depth	97 mm

Installation, mounting

Mounting-/Connection Position	Front
Nominal tightening torque	6 - 6 Nm
Nominal tightening torque down terminal	6 - 6 Nm
Nominal tightening torque top terminal	6 - 6 Nm

Electrical protection

Instantaneous protection (li): dial setting coefficient	6 8 10 12
---	--------------------

Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes
