

Product Datasheet

HNT100DR



HNT100DR

Moulded Case Circuit Breaker h3+ P250 TM ADJ 3P3D 100A 40kA FTC

Technical Features

Electric current

Rated current	100 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	40 kA
Rated current 10°C according to IEC 60947	129.60 A
Rated current 15°C according to IEC 60947	126.30 A
Rated current 20°C according to IEC 60947	122.90 A
Rated current 25°C according to IEC 60947	119.40 A
Rated current 30°C according to IEC 60947	115.80 A
Rated current at 35°C according to IEC 60947	112 A
Rated current at 40°C according to IEC 60947	108.20 A
Rated current 45°C according to IEC 60947	104.20 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	95.70 A
Rated current at 60°C according to IEC 60947	91.10 A
Rated current 65°C according to IEC 60947	86.30 A
Rated current 70°C according to IEC 60947	81.20 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
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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
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Power

Total power loss under I _N	18 W
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Endurance

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

Safety

Ingress Protection (IP) class	IP4X
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Connection

Cross-section flexible conductor	35 - 150 mm ²
Cross-section rigid conductor	35 - 185 mm ²

Cover, door

Interlockable	Yes
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Settings

Thermal protection knob setting xI _N	0.63 0.8 1
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Cable

Cable material	Copper Aluminium
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Compatibility

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

Dimensions

Dimensions	165 x 105 mm
Height	165 mm
Width	105 mm
Depth	97 mm
Downstream busbar: width, height, diameter screw (max.)	4 mm
	8.5 mm
	25 mm
Top stream busbar: width, height, diameter screw (max.)	4 mm
	8.5 mm
	25 mm

Installation, mounting

Mounting-/Connection Position	Front
Nominal tightening torque	12 - 12 Nm
Nominal tightening torque down terminal	12 - 12 Nm
Nominal tightening torque top terminal	12 - 12 Nm

Electrical protection

Instantaneous protection (li): dial setting coefficient	6
	8
	10
	13

Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes