



HMT161NR

Moulded Case Circuit Breaker h3+ P250 Energy 4P4D N0-50-100% 160A 50kA FTC

Technical Features

Electric current

Rated current I _N	160 A
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Architecture

Number of poles	4
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Left

Electric current

Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity I _{cs} under 220 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 240 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 690 V AC according to IEC 60947-2	6 kA
Rated current at 10°C according to IEC 60947	160 A
Rated current at 15°C according to IEC 60947	160 A
Rated current at 20°C according to IEC 60947	160 A
Rated current at 25°C according to IEC 60947	160 A
Rated current at 30°C according to IEC 60947	160 A
Rated current at 35°C according to IEC 60947	160 A
Rated current at 40°C according to IEC 60947	160 A
Rated current at 45°C according to IEC 60947	160 A
Rated current at 50°C according to IEC 60947	160 A
Rated current at 55°C according to IEC 60947	160 A
Rated current at 60°C according to IEC 60947	160 A
Rated current at 65°C according to IEC 60947	160 A
Rated current at 70°C according to IEC 60947	150 A

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

Power

Power dissipation at I _N	18.42 W
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Functions

Trip unit	ENERGY
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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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Installation, mounting

Nominal tightening torque	12 - 12 Nm
Mounting-/Connection Position	Front

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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Cable

Cable material	Copper Aluminium
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Compatibility

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

Data act compliance

Is generating data	Yes
Data types	Alarms Basic information Device energy management Electrical measurement Detailed electrical measurement General diagnostics Network diagnostics Operational state Software diagnostics
Data formats	MODBUS (RTU)
Estimated daily data volume	< 1 KB
Real time data generation	No
Data stored on device	No

Dimensions

Height	165 mm
Width	140 mm
Depth	97 mm

Settings

Adjustment range short-term delayed short-circuit release	94.5 - 1600.0 A
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Electrical protection

Long-time overload protection (ltd): delay (tr)	0.5 s 1.5 s 2.5 s 5 s 7.5 s 9 s 10 s 12 s 14 s 16 s
Short-time protection (std): current (Isd)	1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9 9.5 10

Electrical protection

Short-time protection (std): delay (tsd)	50 ms
	100 ms
	200 ms
	300 ms
	400 ms
Instantaneous protection (li): dial setting coefficient	3
	3.5
	4
	4.5
	5
	5.5
	6
	6.5
	7
	7.5
	8
	8.5
	9
	9.5
	10
	10.5
	11

Sustainability

RoHS conform	Yes
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