



HMT100GR

### Moulded Case Circuit Breaker h3+ P250 LSnl 3P3D 100A 50kA FTC

#### Technical Features

##### Electric current

Rated current	100 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2	50 kA
Breaking capacity on 1-pole for AC 230 V IEC 60947-2	2.50 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	2.50 kA

##### Architecture

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

##### Electric current

Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	50 kA
Rated current 10°C according to IEC 60947	100 A
Rated current 15°C according to IEC 60947	100 A
Rated current 20°C according to IEC 60947	100 A
Rated current 25°C according to IEC 60947	100 A
Rated current 30°C according to IEC 60947	100 A
Rated current at 35°C according to IEC 60947	100 A
Rated current at 40°C according to IEC 60947	100 A
Rated current 45°C according to IEC 60947	100 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	100 A
Rated current at 60°C according to IEC 60947	100 A
Rated current 65°C according to IEC 60947	100 A
Rated current 70°C according to IEC 60947	100 A

##### Settings

Ir1 current dial setting	40 A
	45 A
	50 A
	57 A
	63 A
	72 A
	80 A
	87 A
	93 A
	100 A
Adjustment range short-term delayed short-circuit release	54.6 - 1000.0 A

##### Frequency

Frequency	50 - 60 Hz
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##### Installation, mounting

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

##### Voltage

Rated impulse withstand voltage U <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	800 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

##### Functions

Trip unit	LSNI
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# Product Datasheet

## HMT100GR

### Power

Total power loss under I <sub>N</sub>	7.20 W
Power loss per pole at I <sub>N</sub>	2.40 W

### Endurance

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

### Equipment

Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0

### Safety

Ingress Protection (IP) class	IP4X
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### Use conditions

Operating temperature	-25 - 70 °C
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### Connection

Cross-section flexible conductor	35 - 150 mm <sup>2</sup>
Cross-section rigid conductor	35 - 185 mm <sup>2</sup>
Connector/plug type	Terminal

### Cable

Cable material	Copper Aluminium
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### Dimensions

Height	165 mm
Width	105 mm
Depth	97 mm

### Controls and indicators

Motor drive integrated	No
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### Compatibility

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

### Power supply

Position power supply	Bidirectional
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### Electrical protection

Long-time overload protection (ltd): delay (tr)	5 s
Short-time protection (std): current (Isd)	1.5
	2
	3
	4
	5
	6
	7
	8
	10
Short-time protection (std): delay (tsd)	100 ms
Instantaneous protection (li): dial setting coefficient	15

### Sustainability

RoHS conform	Yes
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