



HMT100JR

**Moulded Case Circuit Breaker h3+ P250 LSI 3P3D 100A 50kA FTC**

**Technical properties**

**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
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2	65 kA
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 240 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I <sub>cs</sub> under 690 V AC according to IEC 60947-2	6 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 70°C according to IEC 60947	100 A

**Architecture**

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

**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 Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

**Functions**

Trip unit	LSI
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**Power**

Total power loss under IN	7,20 W
Power loss per pole at In	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
Degree of pollution according to IEC 60664 / IEC 60947-2	3

**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

#### Cover, door

Interlockable	Yes
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#### 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)	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, 3, 4, 5, 6, 7, 8, 10
Short-time protection (std): delay (tsd)	50 ms, 100 ms, 200 ms, 300 ms, 400 ms
Instantaneous protection (li): dial setting coefficient	3, 4, 5, 6, 7, 8, 10, 12, 15