



HMT101DR

**Moulded Case Circuit Breaker h3+ P250 TM ADJ 4P4D N0-100% 100A 50kA FTC**

**Technical properties**

**Architecture**

Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/100%
Fixing mode	Screwed
Type of case	Fixed built-in

**Functions**

Complete device with protection unit	Yes
Reversing switch	No
Version as main switch	Yes
Version as emergency stop installation	No
Version as safety switch	No
Version as maintenance-/service switch	Yes
Trip Unit	TM A/A
Integrated earth fault protection	No
Concurrently switching N-neutral	Yes

**Controls and indicators**

Motor drive integrated	No
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**Main electrical features**

Rated operational voltage Ue	220 / 690 V
Type of supply voltage	AC
Frequency	50/60 Hz

**Voltage**

Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV
With under voltage release	No

**Electric current**

Rated current	100 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Rating current 10°C according to IEC 60947	129.6 A
Rating current 15°C according to IEC 60947	126.3 A

Rating current 20°C according to IEC 60947	122.9 A
Rating current 25°C according to IEC 60947	119.4 A
Rating current 30°C according to IEC 60947	115.8 A
Rating current 35°C according to IEC 60947	112 A
Rating current 40°C according to IEC 60947	108.2 A
Rating current 45°C according to IEC 60947	104.2 A
Rating current 50°C according to IEC 60947	100 A
Rating current 55°C according to IEC 60947	95.7 A
Rating current 60°C according to IEC 60947	91.1 A
Rating current 65°C according to IEC 60947	86.3 A
Rating current 70°C according to IEC 60947	81.2 A
Rated service breaking capacity Ics under 660V AC according IEC 60947-2	6 kA
Breaking capacity on 1 pole for IT 230V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	6 kA
Breaking capacity on 1 pole for IT 690V NF 60947-2	4.25 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	50 kA
Range of the thermal adjustment	63 / 80 / 100 A
Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2	6 kA
<b>Dimensions</b>	
Depth of installed product	97 mm
Height of installed product	165 mm
Width of installed product	140 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Power loss per pole at 0.63*In	2.38 W
Power loss per pole at 0.8*In	3.84 W
Total power loss at 0.63*In	7.14 W
Total power loss at 0.8*In	11.52 W
Total power loss under IN	18 W

Subject to technical modifications

**Tripping**

Short-time delayed tripping	No
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**Endurance**

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

**Cover, door**

Interlockable	Yes
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**Installation, mounting**

Tightening torque	12Nm
DIN rail mounting with optional adaptor	No
Suitable for front mounting center	No
Suitable for front mounting	No
Suitable for ground mounting	Yes

**Connection**

Connection cross-sect. flexible conductor	35 / 150mm <sup>2</sup>
Connection cross-sect. rigid cable	35 / 185mm <sup>2</sup>
Connection	Front connection
Type of connection	Terminal

**Protection**

Instantaneous protection (Ii): type	without
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**Cable**

Cable Material	Cu / Al
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**Settings**

Range of the magnetic adjustment	600 / 800 / 1000 / 1300 A
Magnetic protection nob setting xIN	6 / 8 / 10 / 13

**Equipment**

Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	Yes
Can be accessorized	Yes

**Use cases**

Category of use	A
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**Use**

Vibrations and shocks withstand	IEC 68068-2-52 Test FC
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**Standards**

Standard text	IEC 60947-2
European directive WEEE	concerned
<b>Safety</b>	
Protection index IP	IP4X
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
<b>Use conditions</b>	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	95%HR 55°C sev Kn (IEC 68-2-30/52)
<b>temperatur</b>	
Temperature of calibration	50 °C