HMT250DR

Moulded Case Circuit Breaker h3+ P250 TM ADJ 3P3D 250A 50kA FTC

Technical characteristics

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
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

Controls and indicators

Motor drive integrated	No

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	250 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	310.2 A
Rating current 15°C according to IEC 60947	303.3 A
Rating current 20°C according to IEC 60947	296.3 A
Rating current 25°C according to IEC 60947	289.1 A

Rating current 30°C according to IEC 60947	281.7 A
Rating current 35°C according to IEC 60947	274.1 A
Rating current 40°C according to IEC 60947	266.3 A
Rating current 45°C according to IEC 60947	258.3 A
Rating current 50°C according to IEC 60947	250 A
Rating current 55°C according to IEC 60947	241.4 A
Rating current 60°C according to IEC 60947	232.5 A
Rating current 65°C according to IEC 60947	223.3 A
Rating current 70°C according to IEC 60947	213.7 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	160 / 200 / 250 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

Dimensions

Depth of installed product	97 mm
Height of installed product	165 mm
Width of installed product	105 mm

Frequency

Frequency	50 to 60 Hz

Power

Power loss per pole at 0.63*In	6.92 W
Power loss per pole at 0.8*In	10.82 W
Total power loss at 0.63*In	20.77 W
Total power loss at 0.8*In	32.45 W
Total power loss under IN	50.7 W
Power loss per pole at In	16.9 W

Tripping

Short-time delayed tripping	No

Endurance

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

Cover, door

Interlockable	Yes

Installation, mounting

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

Connection

Connection cross-sect. flexible conductor	35 / 150mm²
Connection cross-sect. rigid cable	35 / 185mm²
Connection	Front connection
Type of connection	Terminal

Protection

Instantaneous protection (Ii): type	without

Cable

Cable Material	Cu / Al

Settings

Range of the magnetic adjustment	1500 / 1750 / 2000 / 2250 / 2500 A
Magnetic protection nob setting xIN	6 / 7 / 8 / 9 / 10

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

Use

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

Standards

Standard text	IEC 60947-2

Safety

REACH conform	Yes
RoHS conform	Yes
Halogen free	No

Use conditions

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)

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Temperature of calibration	50 °C