



HMT251DR

Moulded Case Circuit Breaker h3+ P250 TM ADJ 4P4D N0-100% 250A 50kA FTC

Technical properties

Arc	h	it	ec	t	uı	re
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Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/100%
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
With integrated earth leakage fault protection	No
Concurrently switching N-neutral	Yes
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 30°C according to IEC 60947 Rating current 35°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating capacity on 1 pole for IT 230°V NF 60947-2 Reaking capacity on 1 pole for IT 400°V NF 60947-2 Reaking capacity on 1 pole for IT 410°V NF 60947-2 Rated ultimate short-circuit breaking capacity for under 240°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 240°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity for under 400°V AC IEC 60947-2 Rated ultimate short-circuit	Rating current 20°C according to IEC 60947	296.3 A
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Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated service breaking capacity Icu under 110-138V AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 But and a short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Reted ultimate short-cir		6 kA
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city 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 380V AC IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 66 kA Poimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency 50 to 60 Hz Power Power Ioss per pole at 0.63*In 6.92 W Power Ioss per pole at 0.8*In 10.82 W Total power Ioss at 0.63*In 20.77 W Total power Ioss at 0.8*In 32.45 W	9 .	65 kA
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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 140 mm Frequency Frequency 50 to 60 Hz Power loss per pole at 0.63*In 6.92 W Total power loss at 0.63*In 20.77 W Total power loss at 0.63*In 32.45 W	Range of the thermal adjustment	160 / 200 / 250 A
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Height of installed product 165 mm Width of installed product 140 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	Dimensions	
Width of installed product 140 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	· · · · · · · · · · · · · · · · · · ·	97 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	Height of installed product	165 mm
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	Width of installed product	140 mm
PowerPower loss per pole at 0.63*In6.92 WPower loss per pole at 0.8*In10.82 WTotal power loss at 0.63*In20.77 WTotal power loss at 0.8*In32.45 W	Frequency	
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	Frequency	50 to 60 Hz
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	Power	
Total power loss at 0.63*In 20.77 W Total power loss at 0.8*In 32.45 W	Power loss per pole at 0.63*In	6.92 W
Total power loss at 0.8*In 32.45 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 under IN 50.7 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)	
temperatur		

50 °C

Temperature of calibration