



HMT050DR

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

Technical properties

Arc	h	it	ec	t	uı	re
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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
-	No
Main electrical features	
-	No 220 / 690 V
Main electrical features	
Main electrical features Rated operational voltage Ue	220 / 690 V
Main electrical features Rated operational voltage Ue Type of supply voltage	220 / 690 V AC
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency	220 / 690 V AC
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage	220 / 690 V AC 50/60 Hz
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage	220 / 690 V AC 50/60 Hz 800 V
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage	220 / 690 V AC 50/60 Hz 800 V 8 kV
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release	220 / 690 V AC 50/60 Hz 800 V 8 kV
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current	220 / 690 V AC 50/60 Hz 800 V 8 kV
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking	220 / 690 V AC 50/60 Hz 800 V 8 kV No
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	220 / 690 V AC 50/60 Hz 800 V 8 kV No 50 A
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN	220 / 690 V AC 50/60 Hz 800 V 8 kV No 50 A 6 kA 0.63 / 0.8 / 1
Main electrical features Rated operational voltage Ue Type of supply voltage Frequency Voltage Rated insulation voltage Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Rating current 10°C according to IEC 60947	220 / 690 V AC 50/60 Hz 800 V 8 kV No 50 A 6 kA 0.63 / 0.8 / 1 63.1 A

Rating current 30°C according to IEC 60947	56.9 A
Rating current 35°C according to IEC 60947	55.3 A
Rating current 40°C according to IEC 60947	53.6 A
Rating current 45°C according to IEC 60947	51.8 A
Rating current 50°C according to IEC 60947	50 A
Rating current 55°C according to IEC 60947	48.1 A
Rating current 60°C according to IEC 60947	46.2 A
Rating current 65°C according to IEC 60947	44.1 A
Rating current 70°C according to IEC 60947	42 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	32 / 40 / 50 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	2.05 W
Power loss per pole at 0.8*In	3.2 W
Total power loss at 0.63*In	6.14 W
Total power loss at 0.8*In	9.6 W
Total power loss under IN	15 W
Power loss per pole at In	5 W
Tripping	

Short-time delayed tripping	No
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Cover, door	
Interlockable	Ye
Installation, mounting	
Tightening torque	12Nr
DIN rail mounting with optional adaptator	N
Suitable for front mounting center	N
Suitable for front mounting	N
Suitable for ground mounting	Ye
Connection	
Connection cross-sect. flexible conductor	35 / 150mm
Connection cross-sect. rigid cable	35 / 185mm
Connection	Front connection
Type of connection	Termina
Protection	
Instantaneous protection (Ii): type	withou
Cable	
Cable Material	Cu / A
Settings	
Range of the magnetic adjustment	300 / 400 / 500 / 650
Magnetic protection nob setting xIN	6/8/10/1
Equipment	
Number of auxiliary contacts as normally closed contact	
Number of auxiliary contacts as normally open contact	
Number of auxiliary contacts as change- over contact	
Motor drive optional	Ye
Can be accessorized	Ye
Use cases	
Category of use	
Use	
Vibrations and shocks withstand	IEC 68068-2-52 Test F
Standards	
Standard text	IEC 60947-
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	
Temperature of calibration	50 °C