



HMT050DR

MCCB h3+ P250 TM 3x50A 50kA

Technische Merkmale

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
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
Version as switch disconnector compact	yes
Isolation suitability	yes
Sealable	yes

Compatibility

Compatible with DIN rail mounting	no
Compatible with RCD AOB	no

Controls and indicators

Motor drive integrated	no
With Contact position indicator	yes
With fault indicator	yes

Connectivity

ACP connection (communication)	no
CIP connection (communication)	no
MIP connection (communication)	no
OAC connection (communication)	no
PTA connection (communication)	no
ZSI connection (communication)	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

	50 A
e short-circuit breaking capacity Icu 3V AC IEC 60947-2	65 kA
e short-circuit breaking capacity Icu C IEC 60947-2	6 kA
ction nob setting xIN 0,63 / 0	0,8 / 1
: 10°C according to IEC 60947 6	63,1 A
150°C according to IEC 60947 6	61,6 A
20°C according to IEC 60947 6	60,1 A
25°C according to IEC 60947	58,5 A
30°C according to IEC 60947	56,9 A
35°C according to IEC 60947	55,3 A
40°C according to IEC 60947	53,6 A
45°C according to IEC 60947	51,8 A
50°C according to IEC 60947	50 A
55°C according to IEC 60947	48,1 A
: 60°C according to IEC 60947	46,2 A
: 65°C according to IEC 60947	44,1 A
70°C according to IEC 60947	42 A
breaking capacity Ics under 220V AC 60947-2	65 k/
breaking capacity Ics under 230V AC 60947-2	65 k/
breaking capacity Ics under 240V AC 60947-2	65 k/
breaking capacity Ics under 380V AC 60947-2	50 kA
breaking capacity Ics under 400V AC 60947-2	50 kA
breaking capacity Ics under 415V AC 60947-2	50 kA
breaking capacity Ics under 660V AC 60947-2	6 kA
breaking capacity Ics under 690V AC 60947-2	6 kA
city on 1 pole for IT 230V NF 60947-2	6 k/
city on 1 pole for IT 400V NF 60947-2	6 k/
city on 1 pole for IT 415V NF 60947-2	6 k/
city on 1 pole for IT 690V NF 60947-2 4,	,25 k/
e short-circuit breaking capacity Icu C IEC 60947-2	65 k/
e short-circuit breaking capacity Icu C IEC 60947-2	65 kA
e short-circuit breaking capacity Icu C IEC 60947-2	50 k/
e short-circuit breaking capacity Icu C IEC 60947-2	50 k/
hermal adjustment 32 / 40 /	/ 50 A
rcuit making capacity Icm under 1 according IEC 60947-2	43 kA

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Rated short-circuit making capacity Icm under 220V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 230V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 240V AC according IEC 60947-2	143 kA
Rated short-circuit making capacity Icm under 380V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 400V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 415V AC according IEC 60947-2	105 kA
Rated short-circuit making capacity Icm under 660V AC according IEC 60947-2	9 kA
Rated short-circuit making capacity Icm under 690V AC according IEC 60947-2	9 kA
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

Frequency

50 to 60 Hz
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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
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Endurance

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

Cover, door

Dimensions

Depth of installed product	97 mm
Height of installed product	165 mm
Width of installed product	105 mm
Critical distance switching emission/earthed part bottom	50 mm
Critical distance switching emission/earthed part left	50 mm
Critical distance switching emission/earthed part right	50 mm
Critical distance switching emission/earthed part top	50 mm
Critical distance switching emission/live part	150 mm

Installation, mounting

12Nm
no
no
yes
no
yes
no

Connection

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

Protection

otection (GF)	no
s protection (li)	yes
s protection (li): deactivatable	no
s protection (li): type	without
s protection (li): reference for current	li x In
s protection (li): dial setting coefficient	6/8/10/13
erload protection (ltd)	yes
ay protection (ltd): deactivatable	no
ad protection (NP)	no
n (PTA)	no
otection (std)	no
otection by I ² t curve	no

Cable

Cable Material	Cu / Al



Settings	
Range of the magnetic adjustment	300 / 400 / 500 / 650 A
Magnetic protection nob setting xIN	6/8/10/13
Time adjustable	no
Equipment	
Motor drive optional	yes
Can be accessorized	yes
Accept terminal cover	yes
With optional voltage release	yes
Use cases	
Category of use	А
Use	
Vibrations and shocks withstand	IEC 68068-2-52 Test FC
Standards	
Standard text	IEC 60947-2
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5
Safety	
Protection index IP	IP4X
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