



HMT251JR

### MCCB h3+ P250 LSI 4x250A 50kA

**Product Datasheet** 

### Architecture

Toggle
left
4
4 P
4P4D N:0/50/100%
Screwed
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	LSI
Integrated earth fault protection	no
Concurrently switching N-neutral	yes
Version as switch disconnector compact	yes
Isolation suitability	yes
Sealable	yes

## Compatibility

Compatible with DIN rail mounting	no
Compatible with RCD AOB	yes

# 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)	yes
OAC connection (communication)	no
PTA connection (communication)	yes
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	
Rated current	250 A
Rated ultimate short-circuit breaking capacity Icu under 110-138V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Rated short-time withstand current lcw t=0.4S 220-240 V AC according IEC 60947-2	2,5 kA
Rated short-time withstand current lcw t=0.4S 380-415 V AC according IEC 60947-2	2,5 kA
Rated short-time withstand current lcw t=0.4S 660-690 V AC according IEC 60947-2	2,5 kA
Rating current 10°C according to IEC 60947	250 A
Rating current 150°C according to IEC 60947	250 A
Rating current 20°C according to IEC 60947	250 A
Rating current 25°C according to IEC 60947	250 A
Rating current 30°C according to IEC 60947	250 A
Rating current 35°C according to IEC 60947	250 A
Rating current 40°C according to IEC 60947	250 A
Rating current 45°C according to IEC 60947	250 A
Rating current 50°C according to IEC 60947	250 A
Rating current 55°C according to IEC 60947	250 A
Rating current 60°C according to IEC 60947	240 A
Rating current 65°C according to IEC 60947	220 A
Rating current 70°C according to IEC 60947	200 A
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	65 kA
Rated service breaking capacity Ics under 380V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 400V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 415V AC according IEC 60947-2	50 kA
Rated service breaking capacity Ics under 660V AC according IEC 60947-2	6 kA
Rated service breaking capacity Ics under 690V AC according IEC 60947-2	6 kA
Breaking capacity on 1 pole for IT 230V NF 60947-2	2,5 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	2,5 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	2,5 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



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 lcs under 110-138V AC according IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2	65 kA
Rated ultimate short-circuit breaking capacity lcu under 380V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2	6 kA
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	45 W
Power loss per pole at In	15 W
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	40000
Cover, door	
Interlockable	yes
Interlockable  Dimensions	yes
Dimensions	yes 97 mm
<b>Dimensions</b> Depth of installed product	•
<b>Dimensions</b> Depth of installed product  Height of installed product	97 mm
	97 mm 165 mm
Dimensions  Depth of installed product  Height of installed product  Width of installed product  Critical distance switching emission/earthed part	97 mm 165 mm 140 mm
Dimensions  Depth of installed product  Height of installed product  Width of installed product  Critical distance switching emission/earthed part bottom  Critical distance switching emission/earthed part	97 mm 165 mm 140 mm 50 mm
Dimensions  Depth of installed product  Height of installed product  Width of installed product  Critical distance switching emission/earthed part bottom  Critical distance switching emission/earthed part left  Critical distance switching emission/earthed part	97 mm 165 mm 140 mm 50 mm



Installation, mounting	
Tightening torque	12Nm
DIN rail mounting with optional adaptator	no
Suitable for front mounting center	no
Suitable for distribution board installation	yes
Suitable for front mounting	no
Suitable for ground mounting	yes
Suitable for intermediate mounting	no
Connection	
Connection cross-sect. flexible conductor	35 / 150mm²
Connection cross-sect. rigid cable	35 / 185mm²
Connection	Front connection
Type of connection	Terminal
Protection	
Long Time protection (ltd): adjustable delay	yes
Long Time overload protection (ltd): delay (tr)	0,5 / 1,5 / 2,5 / 5 / 7,5 / 9 / 10 / 12 / 14 / 16 s
Earth fault protection (GF)	no
Instantaneous protection (li)	yes
Instantaneous protection (Ii): deactivatable	no
Instantaneous protection (Ii): type	adjustable
Instantaneous protection (Ii): reference for current setting	li= 3 - 11 x ln
Instantaneous protection (Ii): dial setting coefficient	3/4/5/6/7/8/9/10/11
Long Time overload protection (ltd)	yes
Long time delay protection (ltd): deactivatable	no
Long Time protection (ltd): delay type	adjustable
Neutral overload protection (NP)	yes
Neutral overload protection (NP): current (IN)	50 / 100 %
Pre-Trip Alarm (PTA)	yes
Short time protection (std)	yes
Short time protection by I2t curve	yes
Ground-fault protection (I²t): desactivatable	yes
Short time protection (std): deactivatable	yes
Short time protection (std): delay type	adjustable
Short time protection (std): Isd tolerance	-10-10 %
Short time protection (std): reference for current setting	lsd = OFF / Isdxlr
Short time protection (std): current (lsd)	1,5/2/3/4/5/6/7/8/10
Short time protection (std): delay (tsd)	50 / 100 / 200 / 300 / 400 ms
Short time protection (std): low speed (LSP) desactivatable	yes
Cable	
Cable Material	Cu / Al



Settings	
Time adjustable	yes
Ir1 current dial setting	90 / 100 / 110 / 125 / 140 / 160 / 180 / 200 / 225 / 250 A
Ir2 dial setting coefficient	0,91 / 0,92 / 0,93 / 0,94 / 0,95 / 0,96 / 0,97 / 0,98 / 0,99 / 1
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