HMW251JR

MCCB h3+ P630 LSI 4x250A 50kA

Product Datasheet

Architecture

Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/50/100%
Fixing mode	fixing plate
Type of case	Fixed built-in

Functions

Complete device with protection unit	yes
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
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 690V AC IEC 60947-2	12 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	250 A
Rating current 65°C according to IEC 60947	250 A
Rating current 70°C according to IEC 60947	250 A
Rated service breaking capacity Ics under 220V AC according IEC 60947-2	85 kA
Rated service breaking capacity Ics under 230V AC according IEC 60947-2	85 kA
Rated service breaking capacity Ics under 240V AC according IEC 60947-2	85 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	12 kA
Rated service breaking capacity Ics under 690V AC according IEC 60947-2	12 kA
Breaking capacity on 1 pole for IT 230V NF 60947-2	10 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	10 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 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 ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	85 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	12 kA

Frequency

Frequency	50 to 60 Hz

Power

Power loss per pole at 0.63*In	4,9 W
Power loss per pole at 0.8*In	7,8 W
Total power loss at 0.63*In	14,7 W
Total power loss at 0.8*In	23,5 W
Total power loss under IN	36,8 W
Power loss per pole at In	12,3 W

Tripping

Time of response when opening	10 ms

Dimensions

Depth of installed product	150 mm
Height of installed product	260 mm
Width of installed product	185 mm

Installation, mounting

Tightening torque	18Nm
DIN rail mounting with optional adaptator	no
Suitable for distribution board installation	yes
Suitable for front mounting	no
Suitable for ground mounting	yes
Suitable for intermediate mounting	no

Connection

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 (Ii)	yes
Instantaneous protection (Ii): maximum current value	3000 A
Instantaneous protection (Ii): deactivatable	no
Instantaneous protection (Ii): reference for current setting	Ii… x In
Instantaneous protection (Ii): dial setting coefficient	3 / 4 / 5 / 6 / 7 / 8 / 10 / 11 / 12
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)	0 / 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 %
Short time protection (std): reference for current setting	Isd = OFF / Isd…xIr
Short time protection (std): current (Isd)	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

Settings

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	no

Use cases

Category of use	Covers

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

temperatur

Temperature of calibration	50 °C