



HMW630JR

MCCB h3+ P630 LSI 3x630A 50kA

Product Datasheet

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
Type of pole	3P3D
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
Version as switch disconnecter 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	630 A
Rated ultimate short-circuit breaking capacity I _{cu} under 690V AC IEC 60947-2	12 kA
Rating current 10°C according to IEC 60947	630 A
Rating current 150°C according to IEC 60947	630 A
Rating current 20°C according to IEC 60947	630 A
Rating current 25°C according to IEC 60947	630 A
Rating current 30°C according to IEC 60947	630 A
Rating current 35°C according to IEC 60947	630 A
Rating current 40°C according to IEC 60947	630 A
Rating current 45°C according to IEC 60947	630 A
Rating current 50°C according to IEC 60947	630 A
Rating current 55°C according to IEC 60947	630 A
Rating current 60°C according to IEC 60947	622 A
Rating current 65°C according to IEC 60947	570 A
Rating current 70°C according to IEC 60947	510 A
Rated service breaking capacity I _{cs} under 220V AC according IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 230V AC according IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 240V AC according IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 380V AC according IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400V AC according IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 415V AC according IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 660V AC according IEC 60947-2	12 kA
Rated service breaking capacity I _{cs} 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 I _{cu} under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 400V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 220V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 380V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 660V AC IEC 60947-2	12 kA

Frequency

Frequency	50 to 60 Hz
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Power

Power loss per pole at 0.63*In	25,4 W
Power loss per pole at 0.8*In	40,6 W
Total power loss at 0.63*In	76,2 W
Total power loss at 0.8*In	121,9 W
Total power loss under IN	190,5 W
Power loss per pole at In	63,5 W

Tripping

Time of response when opening	10 ms
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Dimensions

Depth of installed product	150 mm
Height of installed product	260 mm
Width of installed product	140 mm

Installation, mounting

Tightening torque	18Nm
DIN rail mounting with optional adaptor	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 (Itd): adjustable delay		yes
Long Time overload protection (Itd): 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		6930 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 / 9 / 10 / 11	
Long Time overload protection (Itd)		yes
Long time delay protection (Itd): deactivatable		no
Long Time protection (Itd): delay type		adjustable
Neutral overload protection (NP)		no
Pre-Trip Alarm (PTA)		yes
Short time protection (std)		yes
Short time protection by I ² t curve		yes
Ground-fault protection (I ² t): 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 / Al
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Settings

Ir1 current dial setting	250 / 300 / 350 / 370 / 400 / 500 / 600 / 630 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	A
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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
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Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m

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Temperature of calibration	50 °C
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