



HMW630LR

Moulded Case Circuit Breaker h3+ P630 LSIG 3P3D 630A 50kA FTC

Technical Features

Electric current

Rated current	630 A
Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2	50 kA
Breaking capacity on 1-pole for AC 230 V IEC 60947-2	10 kA
Breaking capacity on 1-pole for AC 400 V IEC 60947-2	10 kA

Architecture

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

Tripping

Response time when opening	10 ms
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Electric current

Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	12 kA
Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2	12 kA
Rated current 10°C according to IEC 60947	630 A
Rated current 15°C according to IEC 60947	630 A
Rated current 20°C according to IEC 60947	630 A
Rated current 25°C according to IEC 60947	630 A
Rated current 30°C according to IEC 60947	630 A
Rated current at 35°C according to IEC 60947	630 A
Rated current at 40°C according to IEC 60947	630 A
Rated current 45°C according to IEC 60947	630 A
Rated current 50°C according to IEC 60947	630 A
Rated current 55°C according to IEC 60947	630 A
Rated current at 60°C according to IEC 60947	622 A
Rated current 70°C according to IEC 60947	510 A
Rated current 65°C according to IEC 60947	570 A

Frequency

Frequency	50 - 60 Hz
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Settings

Ir1 current dial setting	250 A
	300 A
	350 A
	370 A
	400 A
	500 A
	600 A
	630 A
Adjustment range short-term delayed short-circuit release	375 - 6300 A

Installation, mounting

Nominal tightening torque	18 - 18 Nm
Mounting-/Connection Position	Front

Voltage

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 690 V

Functions

Trip unit	LSIG
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Power

Total power loss under IN	119 W
Power loss per pole at In	39.6 W

Equipment

Number of auxiliary contacts as change-over contact	0
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0

Safety

Ingress Protection (IP) class	IP4X
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Use conditions

Operating temperature	-25 - 70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3

Connection

Connector/plug type	Terminal
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Cable

Cable material	Copper Aluminium
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Dimensions

Height	260 mm
Depth	150 mm

Controls and indicators

Motor drive integrated	No
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Compatibility

Suitable for DIN Rail	No
Compatible with RDC AOB	Yes
Suitable for distribution board	Yes

Power supply

Position power supply	Bidirectional
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Electrical protection

Long-time overload protection (ltd): delay (tr)	0.5 s 1.5 s 2.5 s 5 s 7.5 s 9 s 10 s 12 s 14 s 16 s
Short-time protection (std): current (Isd)	1.5 2 3 4 5 6 7 8 10

Electrical protection

Short-time protection (std): delay (tsd)	50 ms
	100 ms
	200 ms
	300 ms
	400 ms
Instantaneous protection (li): dial setting coefficient	3
	4
	5
	6
	7
	8
	9
	10
	11

Sustainability

RoHS conform	Yes
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