



HND630H

## Moulded Case Circuit Breaker h630 3P 50kA 630A LSI

## **Technical properties**

Number of poles	3 F
Functions	
Complete device with protection unit	Yes
Trip Unit	LS
Integrated earth fault protection	No
Configuration	
Number of modules	٤
Main electrical features	
Rated operational voltage Ue	220 / 690 \
Frequency	50/60 H
Voltage	
Rated insulation voltage	800 \
Rated impulse withstand voltage	8 k <sup>1</sup>
With under voltage release	Ne
With under voltage release Electric current	Ne
Electric current Rated current Rated ultimate short-circuit breaking capa-	630 /
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2	630 / 20 k/
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF	630 / 20 k/ 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 /
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF	630 / 20 k 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 51 k
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2	630 / 20 k/ 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 5 51 k/
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF	630 /
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Rated service breaking capacity Ics AC	630 / 20 k 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 51 k 9 k 100 9
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capa-	630 / 20 k. 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 51 k. 9 k/
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capa-	630 / 20 k 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 51 k 9 k 100 9 85 k
Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Rated service breaking capacity Ics AC according IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa- city Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capa-	630 . 20 k 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 51 k 9 k 100 9 85 k 85 k

## **Current correction factors**

	1
Correction factor of rating current for 3 devices placed side-by-side	1
Correction factor of rating current for 4 and 5 devices placed side-by-side	1
Correction factor of rating current for 6 devices placed side-by-side	1
Power	
Total power loss under IN	120 W
Power loss per pole at In	40 W
Tripping	
Tripmode	LSI
Thermal protection trip time	5 / 10 / 11 / 16 / 21 ms
Time of response when opening	10 ms
Electrical specifications	
Magnetic trip delay time	100 to 200 ms
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptator Connection	No
Connection cross-sect. rigid cable	35 / 240mm²
Type of connection	Terminal
Settings	
Range of the magnetic adjustment	3500 / 4410 / 5600 / 6300 / 6300 / 6300 / 6300 /
Magnetic protection nob setting xIN	6300 A
	6300 A 2.5 / 5 / 8
Magnetic protection nob setting xIN	6300 A 2.5 / 5 / 8
Magnetic protection nob setting xIN Setting type In or Ith Equipment	6300 A 2.5 / 5 / 8 IrTh
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally	6300 A 2.5 / 5 / 8 IrTh
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally	6300 A 2.5 / 5 / 8 IrTh 0
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact	6300 A 2.5 / 5 / 8 IrTh 0 0
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact	6300 A 2.5 / 5 / 8 IrTh 0 0
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional Use cases	6300 A 2.5 / 5 / 8 IrTh 0 0 0 Yes
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional	6300 A 2.5 / 5 / 8 IrTh 0 0 Yes
Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change- over contact Motor drive optional Use cases Category of use	6300 A 2.5 / 5 / 8 IrTh 0 0 0 Yes

## **Use conditions**

Operating temperature	-2570 °C
Altitude	2000 m
Storage/transport temperature	-3570 °C