



HEW630JR

## Moulded Case Circuit Breaker h3+ P630 LSI 3P3D 630A 70kA FTC

## **Technical properties**

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Architecture	
Neutral position	without neutral
Number of protected poles	3
Number of poles	3 P
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
Controls and indicators	
Motor drive integrated	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 Icu under 690V AC IEC 60947-2	12 kA
Rating current 10°C according to IEC 60947	630 A
Rating current 15°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 50°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rated service breaking capacity Ics under 660V AC according IEC 60947-2 Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 420V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Poimensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Power Ioss per pole at 0.63*In  Total power Ioss at 0.63*In  Total power Ioss under IN  Power Ioss per pole at In  Tripping  Time of response when opening  Installation, mounting	630 A
Rating current 60°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rated service breaking capacity ics under 660V AC according IEC 60947-2 Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated ultimate short-circuit breaking capacity icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 280V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 280V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity icu under 660V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity icu under 660V AC IEC 60947-2  Polimensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Prequency  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	
Rating current 65°C according to IEC 60947 Rating current 70°C according to IEC 60947 Rated service breaking capacity lcs under 660V AC according IEC 60947-2 Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 280V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 280V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2  Poimensions Depth of installed product Height of installed product Width of installed product Dower loss per pole at 0.63*In Total power loss at 0.63*In Total power loss at 0.63*In Total power loss under IN Power loss per pole at In Tripping Time of response when opening	630 A
Rating current 70°C according to IEC 60947 Rated service breaking capacity Ics under 660V AC according IEC 60947-2 Breaking capacity on 1 pole for IT 230V NF 60947-2 Breaking capacity on 1 pole for IT 400V NF 60947-2 Breaking capacity on 1 pole for IT 415V NF 60947-2 Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Pated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Pomensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	622 A
Rated service breaking capacity Ics under 660V AC according IEC 60947-2  Breaking capacity on 1 pole for IT 230V NF 60947-2  Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Pomensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	570 A
Breaking capacity on 1 pole for IT 230V NF 60947-2  Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated ultimate short-circuit breaking capacity leu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 250V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity leu under 660V AC IEC 60947-2  Poimensions  Depth of installed product  Height of installed product  Height of installed product  Width of installed product  Prequency  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss per pole at In  Tripping  Time of response when opening	510 A
Breaking capacity on 1 pole for IT 400V NF 60947-2  Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Pomensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Width of installed product  Prequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	12 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2  Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Poimensions  Depth of installed product  Height of installed product  Width of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	10 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	10 kA
capacity Icu under 230V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Width of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	10 kA
capacity Icu under 240V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Part and ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	100 kA
capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	100 kA
capacity Icu under 415V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	70 kA
capacity Icu under 220V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Fower  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	70 kA
capacity Icu under 380V AC IEC 60947-2  Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2  Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	100 kA
Dimensions  Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.8*In  Total power loss at 0.8*In  Total power loss per pole at In  Total power loss per pole at In  Tripping  Time of response when opening	70 kA
Depth of installed product  Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss per pole at In  Tripping  Time of response when opening	12 kA
Height of installed product  Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss at 0.8*In  Total power loss per pole at In  Tripping  Time of response when opening	150 mm
Width of installed product  Frequency  Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss at 1.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	260 mm
Frequency  Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss at 0.8*In  Total power loss per pole at In  Tripping  Time of response when opening	140 mm
Power  Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	
Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	
Power loss per pole at 0.63*In  Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	50 to 60 Hz
Power loss per pole at 0.8*In  Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	
Total power loss at 0.63*In  Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	25.4 W
Total power loss at 0.8*In  Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	40.6 W
Total power loss under IN  Power loss per pole at In  Tripping  Time of response when opening	76.2 W
Power loss per pole at In  Tripping  Time of response when opening	121.9 W
Tripping  Time of response when opening	190.5 W
Time of response when opening	63.5 W
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Installation, mounting	10 ms
DIN rail mounting with optional adaptator	No
Suitable for front mounting	No
Suitable for ground mounting	Yes
Connection	

Type of connection	Terminal
Cable	
Cable Material	Cu / Al
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change- over contact	0
Motor drive optional	Yes
Can be accessorized	Yes
Standards	
European directive WEEE	concerned
Safety	
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
temperatur	
Temperature of calibration	50 °C