



Moulded Case Circuit Breaker h1600 3P 70kA 1600A LSI

Technical properties

Architecture	
Type of order	Toggle
Number of poles	3 P
Type of pole	3P3D

Functions	
Complete device with protection unit	Yes
Trip Unit	LSI
Integrated earth fault protection	No

Configuration	
Number of modules	12

Main electrical features	
Rated operational voltage Ue	220 / 690 V
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	1600 A
Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2	45 kA
Thermal protection nob setting xIN	0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1
Breaking capacity on 1 pole for IT 230V NF 60947-2	60 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
Rated service breaking capacity Ics AC according IEC 60947-2	71 %

60947-2	60 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
Rated service breaking capacity Ics AC according IEC 60947-2	71 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	70 kA

Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	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	168.9 W
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Power loss per pole at In	56.3 W
Tripping	
Tripmode	LSI
Thermal protection trip time	5 / 10 / 11 / 19 / 21 / 29 ms
Time of response when opening	10 ms
Electrical specifications	
Magnetic trip delay time	100 to 200 ms
Endurance	
Electric and grance in number of sycles	1000
Electric endurance in number of cycles	
Number of mechanical operations	4000
Number of mechanical operations	4000
Number of mechanical operations Installation, mounting	
Number of mechanical operations	4000 No
Number of mechanical operations Installation, mounting	
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator	
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection	No
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor	No 3x240mm²
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable	3x240mm ²
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection	No 3x240mm² 3x240mm² Front connection
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection	No 3x240mm² 3x240mm² Front connection Terminal
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection	3x240mm ² 3x240mm ² 3x240mm ² Front connection Terminal
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A 2.5 / 5 / 10
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment Magnetic protection nob setting xIN	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A 2.5 / 5 / 10
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Setting type In or Ith	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A 2.5 / 5 / 10 IrTh
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment Magnetic protection nob setting xIN Setting type In or Ith Equipment Number of auxiliary contacts as normally	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A 2.5 / 5 / 10 IrTh
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment 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-	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A 2.5 / 5 / 10 IrTh
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment 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	No 3x240mm² 3x240mm² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment 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-	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 A 2.5 / 5 / 10 IrTh 0 0
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment 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	3x240mm² 3x240mm² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A 2.5 / 5 / 10 IrTh 0 0 Yes
Number of mechanical operations Installation, mounting DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment 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	3x240mm² 3x240mm² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A 2.5 / 5 / 10 IrTh 0 0

Standard text IEC 60947-2

Use conditions

Operating temperature	-2570 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-3570 °C