

70 kA



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

Technical characteristics

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 capacity 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 lcs 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

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 endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
DIN rail mounting with optional adaptator	No
DIN rail mounting with optional adaptator Connection	
DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor	3x240mm²
Connection Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable	
DIN rail mounting with optional adaptator Connection Connection cross-sect. flexible conductor	3x240mm²
Connection Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable	3x240mm ²
Connection Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection	3x240mm² 3x240mm² Front connection
Connection Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection	3x240mm ² 3x240mm ² Front connection Terminal
Connection 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 / 19200 A
Connection 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 / 19200 A 2.5 / 5 / 10
Connection 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 / 19200 A 2.5 / 5 / 10
Connection 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 / 19200 A 2.5 / 5 / 10 IrTh
Connection 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 / 19200 A 2.5 / 5 / 10 IrTh
Connection 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
Connection 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	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A
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	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A 2.5 / 5 / 10 IrTh
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 change-over contact Motor drive optional Use cases	3x240mm ² 3x240mm ² Front connection Terminal 8960 / 11200 / 14000 / 17920 / 19200 / 19200 / 19200 A 2.5 / 5 / 10 IrTh 0 Yes
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	3x240mm ² 3x240mm ² 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