



Moulded Case Circuit Breaker h1600 3P 50kA 1600A LSI

Technical characteristics

Architecture	
Number of poles	3 P
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 Ics AC according IEC 60947-2	100 %
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	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	50 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	:
Correction factor of rating current for 4 and 5 devices placed side-by-side	
Correction factor of rating current for 6 devices placed side-by-side	
Power	
Total power loss under IN	168.9 V
Power loss per pole at In	56.3 N
Tripping	
Tripmode	LS
Thermal protection trip time	5 / 10 / 11 / 19 / 21 / 29 m
Time of response when opening	10 m
Electrical specifications	
Magnetic trip delay time	100 to 200 m
Endurance	
Electric endurance in number of cycles	100
Number of mechanical operations	400
Installation, mounting	
Installation, mounting DIN rail mounting with optional adaptator	N
	N
	N
DIN rail mounting with optional adaptator	
DIN rail mounting with optional adaptator Connection Type of connection	
DIN rail mounting with optional adaptator Connection	Termina 8960 / 11200 / 14000 / 17920 / 19200 / 19200
DIN rail mounting with optional adaptator Connection Type of connection Settings Range of the magnetic adjustment	Termin: 8960 / 11200 / 14000 / 17920 / 19200 / 19200 19200
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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-	Termin: 8960 / 11200 / 14000 / 17920 / 19200 / 19200 19200 2.5 / 5 / 1 IrT
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	Termin. 8960 / 11200 / 14000 / 17920 / 19200 / 19200 19200 2.5 / 5 / 1
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	Termin. 8960 / 11200 / 14000 / 17920 / 19200 / 19200 19200 2.5 / 5 / 1 IrT
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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 Category of use	Termina 8960 / 11200 / 14000 / 17920 / 19200 / 19200 19200 2.5 / 5 / 1 IrT

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