



Moulded Case Circuit Breaker h1000 3P 70kA 1000A LSI

Technical properties

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 With under voltage release	8 kV No
With under voltage release Electric current	No
With under voltage release Electric current Rated current	No
With under voltage release Electric current	No 1000 A
With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capa-	No 1000 A 20 kA
With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capa- city Icu under 690V AC IEC 60947-2	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1
With under voltage release 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	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 60 kA
With under voltage release 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	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 60 kA 9 kA
With under voltage release 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	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 60 kA 9 kA 71 %
With under voltage release 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-	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 60 kA 9 kA 71 % 100 kA
With under voltage release 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-	No 1000 A 20 kA 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 60 kA 9 kA 71 % 100 kA
With under voltage release 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	-

Current correction factors

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	186
Power loss per pole at In	62
Tripping	
Tripmode	
Thermal protection trip time	5 / 10 / 11 / 16 / 21
Time of response when opening	10
Electrical specifications	
Magnetic trip delay time	100 to 200
Endurance	
Electric endurance in number of cycles	10
Installation, mounting	
DIN rail mounting with optional adaptator	
Connection	
Connection	2x240m
Connection Connection cross-sect. flexible conductor	2x240m 2x240m
Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection	2x240m 2x240m Front connect
Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection	2x240m 2x240m Front connect
Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection	2x240m 2x240m Front connect Termin
Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings Range of the magnetic adjustment	2x240m 2x240m Front connecti Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 10000
Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable Connection Type of connection Settings	2x240m 2x240m Front connect Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 1000 2.5 / 5
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	2x240m 2x240m Front connect Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 1000 2.5 / 5
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	2x240m 2x240m Front connection Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 100000 / 10000 / 100000 / 100000 / 100000 / 10000000 / 100000000
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	2x240m 2x240m Front connection Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 10000 / 100000 / 10000 / 100000 / 100000 / 100000 / 10000000 / 100000000
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	2x240m 2x240m Front connect Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 1000 2.5 / 5
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-	2x240m 2x240m Front connecti Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 100 2.5 / 5 Ir
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	2x240m 2x240m Front connecti Termin 5600 / 7000 / 8820 / 10000 / 10000 / 10000 / 100 2.5 / 5 Ir

Standards

Use conditions

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