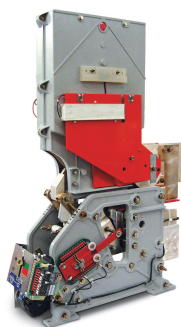


HSCBs

Standard Family Code IR 6040 SERIES ANSI



Description

DC single pole, magnetic blowout, trip free, air circuit breaker. The closing mechanism is motor-operated independent type while the holding mechanism is magnetic type, provided with holding coil or permanent magnet. The breaker is equipped with a direct acting over-current trip device, which may be either unidirectional or bi-directional. Reference standard ANSI C37.14 - C37.16 (Table 11) - for feeder application, heavy duty.

Family Code			
Voltage	Holding System	Thermal Current	Thermal Current
		3000 A	4000 A
800 V	Holding Coil	IR 6030 FC 08A	IR 6040 FC 08A
	Permanent Magnet	IR 6030 FP 08A	IR 6040 FP 08A
1000 V	Holding Coil	IR 6030 FC 10A	IR 6040 FC 10A
	Permanent Magnet	IR 6030 FP 10A	IR 6040 FP 10A
1200 V	Holding Coil	IR 6030 FC 12A	IR 6040 FC 12A
	Permanent Magnet	IR 6030 FP 12A	IR 6040 FP 12A
1600 V	Holding Coil	IR 6030 FC 16A	IR 6040 FC 16A
	Permanent Magnet	IR 6030 FP 16A	IR 6040 FP 16A

Type	IR6000 A
Number of Poles	1 NO
Mounting Position	Vertical
Control Voltage Rating U_c [Vdc]	48 - 125 ¹
Auxiliary Contact Blocks	6 N.O. + 6 N.C.
Block Type	Sliding Contact
Arc chute Material	Ceramic
Main Contacts tips Material	AgSnO ₂
Arcing Contacts tips Material	AgW
Electric Diagram HC	42870233B
Electric Diagram PM	42870289B
Layout Drawing HC ANSI	42870405C
Layout Drawing PM ANSI	42870678C

¹ To be specified in order phase.

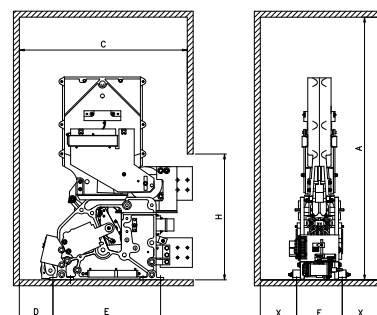
Electrical Characteristics	08A	10A	12A	16A
Max Operational Voltage [V _{dc}]	800	1000	1200	1200
Conventional Free Air Thermal Current [A] at 40°C ²	3000/4000	3000/4000	3000/4000	3000/4000
Breaking Capacity (Peak/Steady State) [kA/kA]				
Test A	200 / 120	158 / 96	132 / 80	100 / 60
Test B	- / 52,6	- / 50,2	- / 49	- / 44,3
Test C	- / 31,2	- / 34	- / 35,3	- / 35
Test D	- / 17,9	- / 20,7	- / 22,6	- / 25
Rated short time withstand current [kA]	200 (Peak) / 120 (Steady state) for 250 ms			
Peak arc voltage x U_{Ne} [$\dot{U}_{arc}$]	up to 4			
Standard direct acting trip device [kA] ¹				
Setting Range 1	1 ÷ 1.6			
Setting Range 2	1.6 ÷ 2.6			
Setting Range 3	2.5 ÷ 4			
Setting Range 4	4 ÷ 6.4			
Setting Range 5	5.8 ÷ 9.3			
Setting Range 6	8 ÷ 13			
Setting Range 7	9.4 ÷ 15			
Setting Range 8	12.5 ÷ 20			
Blow Out Circuit Type	Coil			

² Device cabled according IEC 60947

Minimum clearances [mm] from ³ :								
Rated Operational Voltage [V _{dc}]		A ⁴	C	D	E	F	H	X
800 1000	Metal Parts	1330	850	170	545	232	673	184
	Plastic Parts	1230	800	120				134
1200 1600	Metal Parts	1330	850	170				184
	Plastic Parts	1230	800	120				134

³ Reduced distances should be approved by M.S.

⁴ These quotes are referred to a 50 % surface opening grid.



For further technical information, please contact M.S. or refer to the product technical specification

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