

STANDARD FAMILY CODE IR 3000 SERIES VV

Mounting Position	Vertical
Control Voltage Rating Uc [Vdc]	24 - 36 - 48 - 72 - 110¹
Auxiliary Contact Blocks	5 a1 + 6 b0
Block Type	Reed
Arc chute Material	Ceramic
Main Contacts tips Material	AgSnO ₂
Arcing Contacts tips Material	AgW
Electric Diagram HC	42870370B
Layout Drawing HC	42870555C

Туре					
Voltage	Holding System	Thermal Current			
		1500 A	3000 A		
900 V	Holding Coil	IR 3015 VV 09L	IR 3030 VV 09L		
1800 V		IR 3015 VV 09M	IR 3030 VV 09M		
		IR 3015 VV 18M	IR 3030 VV 18M		



Description

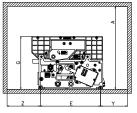
Electrical Connections

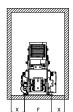
DC single pole, magnetic blowout, trip free, air circuit breaker. The closing mechanism is motor-operated independent type while the holding mechanism is magnetic type, provided with holding coil. The breaker is equipped with a direct acting over-current trip device, which may be either unidirectional or bi-directional. Reference standard IEC 60077.

09L		09M	18M			
900		900	1800			
1000		1000	2000			
2300		2300	2300			
09L		09M	18M			
1500	/ 3000¹	1500 / 3000¹	1500 / 3000¹			
30/0	(42kA Peak)	50 / 0 (70kA Peak)	30 / 0 (42kA Peak)			
30 / 1	5	32.5 / 15	30 / 15			
30 / 5	0	30 / 50	30 / 40			
30 / 1	50	30 / 150	30 / 100			
0-20s-CO-60s-CO		0-20s-CO-60s-CO	0-20s-CO-60s-CO			
up to	3 x U _{Nm}	up to 3 x U _{Nm}	up to 3 x U _{Nm}			
1 ÷ 1.8	8	1 ÷ 1.8	1 ÷ 1.8			
1.5 ÷ 2	2.7	1.5 ÷ 2.7	1.5 ÷ 2.7			
		2.2 ÷ 4	2.2 ÷ 4			
		3.3 ÷ 6	3.3 ÷ 6			
		Coil	Coil			
	6x50000					
., .		4x200				
Vibrations (IEC61373)		Cat.1 - Class B				
Weight LP/MP [kg]		44 / 54				
	0.7Uc ÷ 1.25	Uc				
Control Voltage Range Operated by		D.C. Motor				
Holding closed by		Holding Coil				
Peak closing power and time [W x s]		400 x 0.01				
Nominal closing power and time [W x s]		250 x 1.5				
	15					
Nominal opening power @ 20°C [W]		0				
Controlled opening time [ms]		< 50				
	Reed Contac	ts (Vacuum Technolo	gy)			
		24 / 36 / 48 / 72 / 110¹				
	5					
s [W]	5 120					
s [W] ms [A]						
	120					
	900 1000 2300 09L 1500 30 / 0 30 / 1 0-20s up to 1 ÷ 1. 1.5 ÷ : 2.2 ÷ ·	900 1000 2300 09L 1500 / 3000¹ 30 / 0 (42kA Peak) 30 / 15 30 / 50 30 / 150 0-20s-CO-60s-CO up to 3 x UNm 1 ÷ 1.8 1.5 ÷ 2.7 2.2 ÷ 4 3.3 ÷ 6 Coil 6x50000 4x200 Cat.1 - Class 44 / 54 0.7Uc ÷ 1.25 D.C. Motor Holding Coil 400 x 0.01 250 x 1.5 15 0 < 50 Reed Contacc 24 / 36 / 48 /	900 900 1000 1000 2300 2300 09L 09M 1500 / 3000¹ 1500 / 3000¹ 30 / 0 (42kA Peak) 50 / 0 (70kA Peak) 30 / 15 32.5 / 15 30 / 50 30 / 150 0-20s-CO-60s-CO 0-20s-CO-60s-CO up to 3 x U _{Nm} up to 3 x U _{Nm} 1 ÷ 1.8 1 ÷ 1.8 1.5 ÷ 2.7 1.5 ÷ 2.7 2.2 ÷ 4 2.2 ÷ 4 3.3 ÷ 6 Coil Coil 6x50000 4x200 Cat.1 - Class B 44 / 54 0.7Uc ÷ 1.25Uc D.C. Motor Holding Coil 400 x 0.01 250 x 1.5 15 0 < < 50 Reed Contacts (Vacuum Technoloog 24 / 36 / 48 / 72 / 110¹			

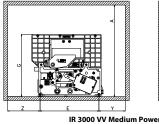
Fast-on 2.5 x 0.8mm or customized LV Connection¹

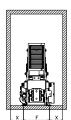
Minimum clearances [mm] from ⁵ :								
Rated Voltag	Operational e [Vdc]	A ⁶	E	F	G	Х	Υ	Z
900	Metal Parts	620	450	200	396	100	202	248
	Plastic Parts	520				50	150	198
1800	Metal Parts	700			476	100	202	248
	Plastic Parts	600				50	150	198





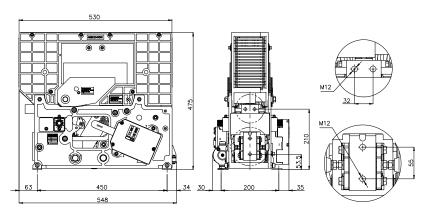
IR 3000 VV Low Power





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IR 3000 VV Low Power



IR 3000 VV Medium Power

- ¹ To be specified in order phase
- ² Device cabled according IEC 60947
- ³ Tripping point reached up with di/ dt=200A/s. Other setting range are available on request
- ⁴ According to IEC 62498-1
- ⁵ Reduced distances should be approved by Microelettrica
- ⁶ These quotes are referred to a 50% surface opening grid

The technical specifications reported are not binding and they should be agreed in the contract.

For further technical information on our products visit www.microelettrica.com

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« (K) KNORR-BREMSE	
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((K)) NEW YORK AIR BRAKE

MERAK





(((k)) SELECTRON







