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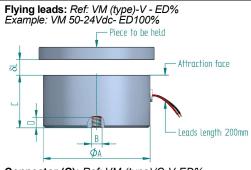
• VM SERIE

The attraction and holding of magnetic pieces are made by permanent magnets mounted in the electromagnet, with these kind of products we avoid the risk of load falling down due to sudden power supply failure. The power supply on the coil allows to loose the load, when this power supply stops, the product recovers its initial force.

When working with suspended loads, security norms must be respected.

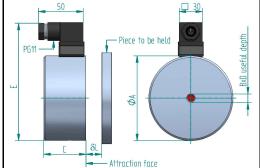
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Protection rate: IP65 Insulation class: B (130°C)	Table 1								
Standard voltage: 24VDC Standard duty cycle: ED100% Different voltage, ED or size: Consult	TYPE	øA (-0,3)	В	C±0.1	D	Е	F	Weight(Kg)	
Different voltage, ED of size. Consult	VM 20 VM 25	20 25	M-3 M-4	25 27	5 5		 40	0.04 0.06	
Flying leads for every size	VM 30	30	M-4	28	5		45	0.17	
Supply possibilities under demand:	VM 40	40	M-5	30	6		55	0.24	
With campling screw from the VM25	VM 50	50	M-5	35	6		65	0.44	
With connector from the VM65. The connector (1) has a possibilities of direction $(4x00^{\circ})$	VM 65 VM 80	65	M-8 M-8	40	8	112	80 95	0.74	
The connector (1) has 4 possibilities of direction $(4x90^{\circ})$ and it is possible to be incorporated to the same diodes	VM 100	80 100	M-10	45 50	8	147	95 115	1.42 2.20	
of rectification for alterning current connection (AC).	VM 150	150	M-16	65	15	197	165	6.60	



Connector (C): Ref: VM (type)/C-V-ED% Example: VM65/C-24Vdc ED100% Connection:

see documentation that is enclosed with the material



Clamping screw (B): Ref: VM(type)/B-V-ED% Example: VM50/B-24Vdc-ED100%

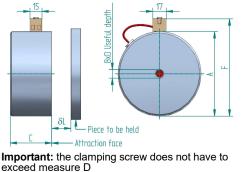


Table 2						
	P at 20°C	Thickness of the	Air	gap (mm)		
	(W)	piece to hold (mm)	0	0.1	0.2	
VM20	2.6	1 3 10	18 18 18	5 5 5	1 1 1	
VM25	4.3	1 3 10	20 23 29	7 7 10	3 4 7	
VM30	4.5	1 3 10	24 45 52	10 10 14	5 6 7	
VM40	7	1 3 10	39 108 128	29 57 58	22 29 37	Fm (N)
VM50	10	1 3 10	43 129 226	30 110 125	28 75 80	Force
VM65	14	1 3 10	44 266 374	35 203 238	25 140 145	Magnetic Force Fm (N)
VM80	18	1 3 10	44 294 588	35 267 362	25 217 256	Ma
VM100	25	1 3 10	45 299 1000	35 282 745	25 262 519	
VM150	45	1 3 10	93 415 2000	75 350 1500	60 320 1300	

The table 2 gives for each type of holding magnet, the values of the force of maintenance (Fm) based on the air gap, measured in the following conditions:

-Holding magnet without voltage.

-Flat piece ($\Im_{\mu}m$ rugosity) in A°St37, thickness as shown in the table 2 and dimensions are similar or bigger than the attraction face. -Room temperature 35°C.

-Coil working on its regime temperature.

At different conditions, the magnetic force(Fm) may decrease. The value of the magnetic remanence after the power supply stops is 5% of the holding force.

.Earthing is recommended if the metallic parts are accessible. .Technical explanation: see page 4 & 5.

Under demand: any size, voltage, duty cycle etc can be manufactured.

When lifting or handling heavy loads a minimum security margin of 3 must be respected, the weight of the load cannot exceed 33% of the magnetic force.