emessem solenoid company LTD

710-8084



ELECTROMAGNETIC EQUIPMENT

D.C. Cylindrical Solenoid

Robust enclosed coil design with nose mounting

Rectifier for A.C. supply Stroke up to 25mm Pushing version available (RP) 10 Product group

Type R16 x 16

- Long stroke design with integral clevis end (fig. 1)
- Pull operation (version with threaded pushrod available)
- Increasing force characteristic (fig. 2)
- Threaded mounting nose with anti-rotation feature, locknut and shakeproof washer
- Coil with insulation to class B, for voltages up to 250 volts
- Protection classification DIN VDE0470 / EN60529
 Flying leads IP00
- UL rated materials of construction
- Zinc / nickel plated iron parts
- Suitable for operation in any attitude
- Modifications and special designs on request
- Increased protection solenoid for arduous service on:

Machine tools

Office machines

Motor vehicles

Remote control

Automation

Medical equipment

Packaging and coin equipment

Textile machinery

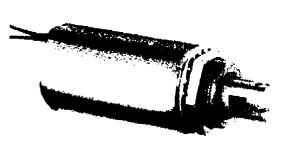
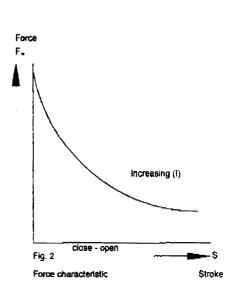


Fig. 1 R16 x16





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Performance and dimensional data for type R16 x 16 and RP16 x 16

		R16 x 16 - Pull			RP16 x 16 - Push		
Duty Rating		Continuous	Intermittent	Impulse	Continuous	Intermittent	Impulse
Strake s	(mm)	Magnetic force F _M (N)					
	0	25.3	35.6	42.3	25.2	39.0	46.4
	2	6.9	19.2	28.6	5.6	14.2	30.3
	4	3.8	13.7	23.1	2.7	7.3	21.8
	8	1.8	8.3	17.0	0.8	2.8	13.3
	12	1.1	5.6	12.9	0.2	1.8	8.3
	16	0.76	4.0	10.0			
	20	0.45	2.6	7.4			
	25	0.11	1.2	3.5			
Power Consumption P ₂₅	(Watts)	5.5	38	96	5.5	38	96
Armature Weight m	(kg)	0.043			0.038		
Spienoid Weight m _M	(kg)	0.161					

a completion of energised stroke.

TABLE BASIS

24V / Continuous - Intermittent - Impulse duty Mounted on steel plate 152 x 152 x 3mm Horizontal working

Tolerance +/- 10% (inherent and manufacture)

MAGNETIC FORCE (F,)

is listed in HOT condition at RATED voltage

Adjust for armature weight

POWER CONSUMPTION (Pz)

is listed with a 25°C coil temperature (decrease / HOT)

DUTY RATING

The proportion of time that the solenoid is energised per operation cycle, normally shown in %,

Proportion (%) =
$$\frac{t_{on}}{t_{on} + t_{or}} \times 100$$

For each coll type: maximum energised (proportion) time/cycle -

Continuous: (100%)

Intermittent: (10%) 60secs.

Impulse: (5%) 0.1secs.

Ambient temperature 25°C

Free air mounted

Pull arrangement

SUPPLY VOLTAGE

Standard DC: 24V, 97V, 205V (for AC 50 / 60Hz rectified, 110, 230V)

Rectifier can be provided for AC supply.

Dimensions without guarantee - modifications reserved

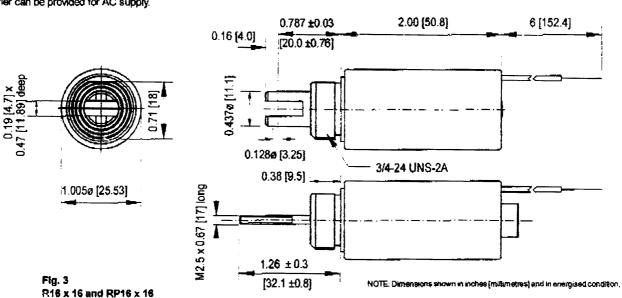
Conversion Factors 1 N = 0.102 kp ≈ 0.1 kp Ncm = 0.102 kpcm ≈ 0.1 kpcm 1 kp = 1 kg = 2.2 lbs 1 mm = 0.039 in. 1 cmkp = 0.856 in. lbs

Order Example

Type Voltage Duty rating R16 x 16 24v DC

1099

Continuous



Subject to our Standard Conditions

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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R16X16,24V10% GFCX030X00E13,24V100% GHUZ040M20D03,24V100%