## MAGNETSCHU SOLENOIDS AND SOLUTIONS

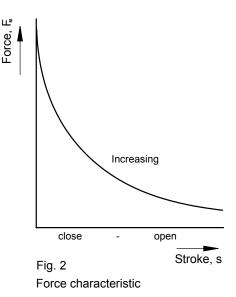
# **DC Open Frame Solenoid**

**Rectifier for AC supply** Stroke up to 25mm Pushing and spring-return versions available

- Increasing force characteristic (Fig. 2)
- Long stroke design with integral clevis for pull operation (Fig.1)
- Version with threaded pushrod available
- Zinc / nickel plated iron parts
- Coil insulation to class B, for voltages up to 250 volts







UK

Protection classification - DIN VDE0470 / EN60529 Flying leads -**IP00** 

- UL listed materials of construction
- Suitable for operation in any attitude
- Spring return arrangement available
- Modifications and special designs on request
- General purpose box frame solenoid for service on:

Machine tools **Office Machines Automation** Remote control Packaging and coin equipment **Textile Machinery** 

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**Product group** 

**Type 609** 



QUALITY SINCE 1912

#### Performance and dimensional data for type 609

		609		
Duty Rating		Continuous (CD) 100%	Intermittent (ID) 25%	Pulse (PD) 10%
Stroke s	(mm)	Magnetic force F <sub>M</sub> (N)		
	0	62.4	90.3	110.8
	2	27.4	59.9	92.7
	4	17.1	43.4	80.1
	8	8.5	26.1	58.9
	12	5.2	16.4	42.4
	16	3.3	10.7	30.6
	20	1.9	6.5	20.8
	25	0.56	2.4	9.1
Power Consumption P <sub>25</sub>	(Watts)	13	40	130
Armature Weight m <sub>A</sub>	(kg)	0.091		
Solenoid Weight m <sub>M</sub>	(kg)	0.491		

#### 0mm is completion of energised stroke

#### **TABLE BASIS**

24V / Continuous - Intermittent - Pulse duty Mounted on steel plate 152 x 152 x 3mm Horizontal working Tolerance +/- 10% (inherent and manufacture)

**RESIDUAL MAGNETISM** 

With low force applications, plungers may hold in under residual magnestism when the coil is deenergised. To prevent this, anti-residual springs are available, but the force/stroke characteristic will be modified as a result

#### **DUTY RATING**

The proportion of time that the solenoid is energised per operation cycle normally shown in % Max. energised time/cycle: Continuous (100%): Intermittent (25%) - 60secs: Pulse (10%) - 0.1secs

#### SUPPLY VOLTAGE

Standard DC: 6V, 12V, 24V - other voltages on request Rectifier can be provided for AC Supply

Ambient temperature 25°C Free air mounted Pull arrangement

**MAGNETIC FORCE** (**F**<sub>M</sub>) is listed in HOT condition at RATED voltage Adjust for armature weight

### POWER CONSUMPTION (P<sub>25</sub>)

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

t (on)  $\frac{1}{t (on) + t (off)} \times 100$ 

