# **MAGNET-SCHULT**

SOLENOIDS AND SOLUTIONS



## D C Open Frame Solenoid

Rectifier for A.C. supply Stroke up to 25mm

**Product group Type 828** 

- Increasing force characteristic (Fig. 2)
- For pull operation
- Long stroke design with integral clevis end
- Zinc / nickel plated iron parts
- Coil insulation to class B, for voltages up to 250 volts
- Protection classification DIN VDE0470 / EN60529 Tag connectors or flying leads - IP00

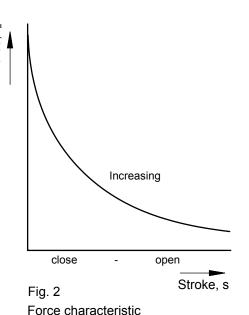


- Suitable for operation in any attitude
- Spring return arrangement available
- Modifications and special designs on request
- General purpose box frame solenoid for service on:

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



Fig. 1 **Type 828** 



**GU22 9LD** Magnet Schultz Limited 3-4 Capital Park **Old Woking** Surrey UK

**Conversion Factors** 

 $1N = 0.102 \text{ kp} \approx 0.1 \text{kp}$ 

1 Mcm = 0.102 kpcm  $\approx 0.1$  kcpm

1 kp = 1 kg = 2.2 lbs

1 mm = 0.039 in

1 cmkp = 0.856 in. lbs



**QUALITY SINCE 1912** 

### Performance and dimensional data for type 828

			828	
Duty Rating		Continuous	Intermittent	Impulse
Stroke s	(mm)	Magnetic force F <sub>M</sub> (N)		
	0	36.2	42.7	49.9
	2	10.0	21.2	37.0
	4	4.5	12.0	29.0
	8	2.1	5.5	18.0
	12	1.2	3.2	11.0
	16	0.3	1.8	6.0
	20	0.2	0.6	4.0
	25	0.18	0.19	1.5
Power Consumption P <sub>25</sub>	(Watts)	8.5	19.5	85
Armature Weight m <sub>A</sub>	(kg)	0.037		
Solenoid Weight m <sub>M</sub>	(kg)	0.165		

0 mm is completion of energised stroke

#### **TABLE BASIS**

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

## MAGNETIC FORCE (F<sub>M</sub>)

Is listed in HOT condition at 90% of rated voltage (increase approx. 20% at rated voltage). Adjust for armature weight.

#### **DUTY RATING**

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

Proportion (%) = 
$$\frac{t \text{ (on)}}{t \text{ (on)} + t \text{ (off)}} x100$$

Ambient temperature 25°C Free air mounted Pull arrangement

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

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

#### **SUPPLY VOLTAGE**

Standard DC: 12V, 24V - Other voltages upon request Rectifier can be provided for AC supply.

For each coil type: maximum energised (proportion) time / cycle Continuous: (100%) Intermittent: (25%) 60 secs Impulse: (10%) 0.1 secs

