MAGNET-SCHULTZ SOLENOIDS AND SOLUTIONS



D.C. Open Frame Solenoid

Rectifier for A.C. supply Stroke up to 10mm

10
Product group
Type 312

- Increasing force characteristic (Fig. 2)
- Pull or Push operation
- Armature options clevis or tapped
- Coil insulation to class B, for voltages up to 250 volts
- Protection classification DIN VDE0470/EN60529
 Tag connectors or flying leads IP00
- UL listed materials of construction.
- Suitable for operation in any attititude
- Spring return available
- Modifications and special designs on request
- General purpose box frame solenoid for service on:

Machine tools

Automation

Packaging and coin equipment

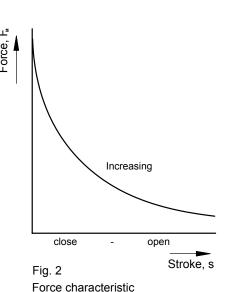
Office Machines

Remote control

Textile Machinery



Fig. 1 Type 312





QUALITY SINCE 1912

Performance and dimensional data for type 312

Duty Rating	Continuous (CD) 100%	Intermittent (ID) 25%	Pulse (PD) 10%	Spring Return, Force, (N)	
Stroke s	*Magnetic force, F _M (N)			R1	R 2
0	10.7	12.5	13.4	0.57	2.0
1	1.1	2.8	9.7	0.51	1.7
2	0.7	1.7	7.8	0.45	1.5
3	0.5	1.3	6.0	0.40	1.3
4	0.3	0.9	4.5	0.34	1.1
6		0.3	2.5		0.8
8			1.5		
10			0.8		
Power Consumption P ₂₅ (Watts)	4	9	40		
Armature Weight m _A (g)	7				
Solenoid Weight m _M (g)	36				

*Gross force, without spring return. Note: 0mm is completion of energised stroke

Pull arrangement

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_M) is listed in HOT condition at RATED voltage Adjust for armature weight

POWER CONSUMPTION (P₂₅)

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

Order code for Type 312 solenoid Ambient temperature 25°C 312 - [add suffixes as required, see below], Voltage / Duty Free air mounted

Push -rod if required - P

Spring return if required - R1 or R2 R1 (light) or R2 (heavy) Spring

Connection type:

Flying Leads or Quick Connect - FL or QC

- M3 or CL Armature type M3 or Clevis

Order Example 312 - P/R1/QC/M3, 24V ID

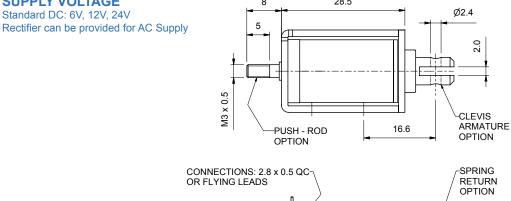
DUTY RATING

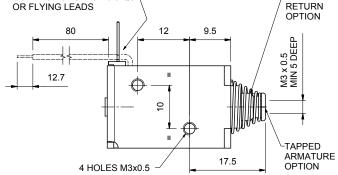
Standard DC: 6V, 12V, 24V

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

SUPPLY VOLTAGE

 $\frac{t (on)}{t (on) + t (off)} x100$ Ø2.4 5





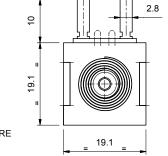


Fig 3. Type 312