

D.C. Open Frame Solenoid

Rectifier for A.C supply
Stroke up to 12mm

10
Product group
Type 5U7

- Increasing force characteristic
- With integral clevis end for pull operation
- Compact U - frame design for installation in restricted space envelopes
- Mounting by 4 x tapped holes in frame side
- Zinc / nickel plated iron parts
- Coil with insulation to class B, for voltages up to 250 volts
- Protection classification - DIN VDE0470/EN60529
Tag connectors or flying leads - IP00
- UL rated materials of construction
- Suitable for operation in any attitude
- Spring return arrangement available
- Modifications and special designs on request
- General purpose open frame solenoid for service on:

Machine tools
Automation
Packaging and coin equipment

Office Machines
Remote control
Textile Machinery

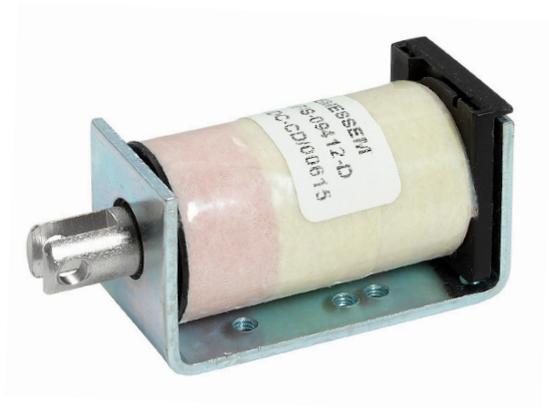


Fig. 1
Type 5U7

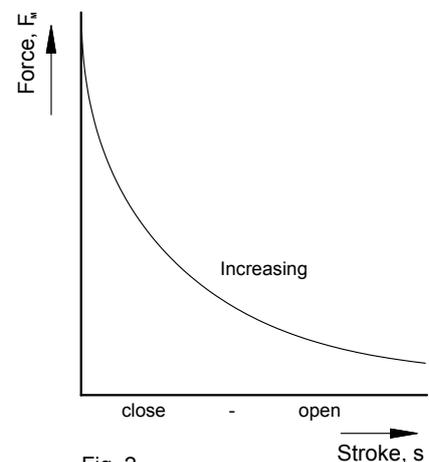


Fig. 2
Force characteristic



Performance and dimensional data for type 5U7

		5U7		
Duty Rating		Continuous	Intermittent	Impulse
Stroke s	(mm)	Magnetic force F_M (N)		
	0	17.0	20.8	25.4
	1	8.0	13.9	20.0
	2	5.0	10.0	18.0
	4	2.4	5.9	14.0
	6	1.5	3.5	9.9
	8	0.9	2.6	8.5
	10	0.7	1.5	7.0
	12	0.3	0.8	5.5
Power Consumption P_{25}	(Watts)	7	19	70
Armature Weight m_A	(kg)	0.014		
Solenoid Weight m_M	(kg)	0.0895		

TABLE BASIS

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

Ambient temperature 25°C
Free air mounted
Pull arrangement

Conversion Factors

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

MAGNETIC FORCE (F_M)

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

POWER CONSUMPTION (P_{25})

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 %
Max. energised time/cycle: continuous (100%): intermittent (25%) - 60secs: impulse (10%) - 0.1secs

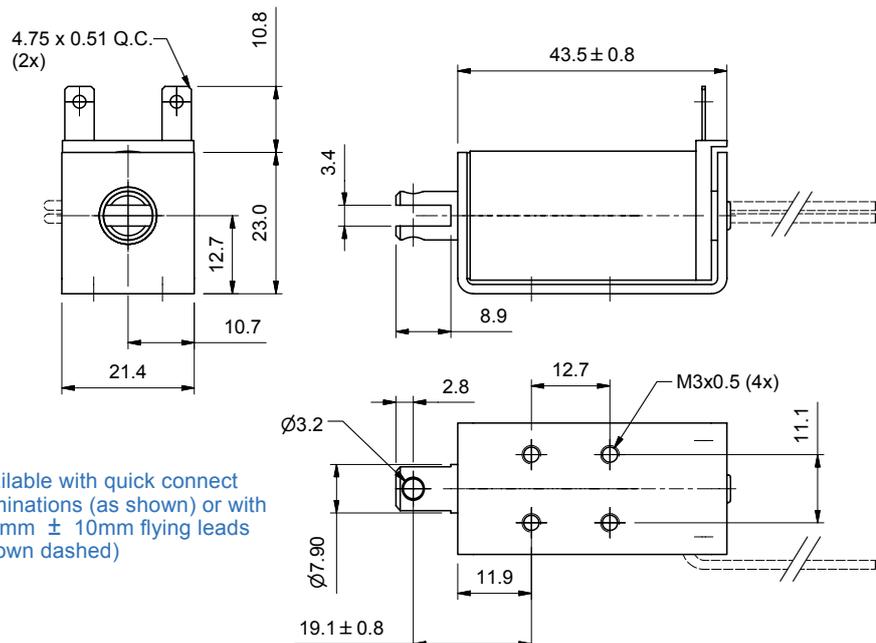
$$\frac{t(\text{on})}{t(\text{on}) + t(\text{off})} \times 100$$

SUPPLY VOLTAGE

Standard DC: 6V, 12V, 24V, 205V
Rectifier can be provided for AC Supply
Other voltages on request

Order Example

Type 5U7
Voltage 24v DC
Duty Rating Continuous



Available with quick connect terminations (as shown) or with 150mm ± 10mm flying leads (shown dashed)