# MAGNETSCHULTZ SOLENOIDS AND SOLUTIONS



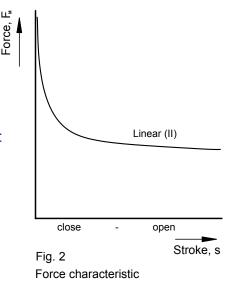
# **DC Open Frame Solenoid**

Rectifier for AC supply Stroke up to 9mm Work Rating up to 9.00 Ncm Product group

# **Type GFC** x 030 X00 E13

- According to VDE 0580 and ISO 9001(conform with article 10 of directions 73/23/EEC - according to CENELEC memorandum no. 3 of March 1987)
- Increasing force characteristic (fig.2)
- Small dimensions
- Push and pull operation Conical spring return available
- Protection classification DIN VDE0470/EN60529
  Flying leads IP00
- Encapsulated coil
- Plated iron parts, pole piece and armature
- Suitable for mouting in any attitude
- Available with linear shotbolt / spring return for energise to lock or unlock operation
- Fork ends (list ZGA)
- Increased protection open frame solenoid for arduous service on:
  - Machine toolsOffice MachinesMotor vehiclesRemote controlAutomationMedical equipmentPackaging and coin equipmentTextile Machinery

Fig. 1 Type GFCX 030 X00 E13



Magnet Schultz Limited• 3-4 Capital Park• Old Woking• Surrey• GU22 9LD• UK🕾 + 44(0)1483 794700• = +44(0)1483 757298• sales@magnetschultz.co.uk• www.magnetschultz.co.uk



## Performance and dimensional data for type GFCX 030 X00 E13

Duty Rating ED %		100% S1	40% S3	25% S3	15% S3	5% S3
Stroke s; rated stroke (max stroke) 1)	(mm)	5 (9 max)				
Holding force	(N)	11	17	20	25	32
Magnetic force $F_{M}$ at rated stroke	(N)	4.3	8.3	9.9	12.7	17.5
Magnet force F <sub>M</sub> at max - stroke	(N)	0.8	1.8	2.6	4.5	
Work rating A <sub>N</sub>	(Ncm)	2.15	4.15	4.95	6.35	8.75
Rated Power P 20	(W)	7	15	20	36	83
Frequency of operation S <sub>h</sub>	(1/ <sub>h</sub> )	22000	15000	9000	5500	1900
Closing time t <sub>1</sub>	(ms)	70	70	70	70	70
Opening time t 2	(ms)	50	45	40	35	32
Armature Weight m <sub>A</sub>	(kg)	0.03				
Solenoid Weight m <sub>M</sub>	(kg)	0.16				

<sup>1)</sup>0mm is completion of energised

### **Table Basis**

The terms used are defined in Technical Explanation GXX Magnetic forces  ${\rm F}_{\rm \scriptscriptstyle M}$  stated are based on

24v DC supply

35°C ambient temperature

• working in the Hot condition • armature in horizontal attitude

X100

- 90% of the rated voltage
- heat-insulated mounting

Duty Rating ED, % of energised time/cycle:

Max. energised time/cycle: 100% continuous, 40% - 120 secs, 25% - 75secs, 15% - 45secs, 5% - 15secs The operating life of high wattage coils should be confirmed by test in the application

ton

ton + toff

### Rated Power P<sub>20</sub> stated with coil at 20°C

Operating times t<sub>1</sub> / t<sub>2</sub> stated are based on

Values given may vary by up to 10% owing to inherent and manufacturing tolerances

#### **Supply Voltage**

Standard voltages available : 24v DC and 205v DC (for rectified 230v 50/60Hz)

