DC Small Shotbolt Lock Assembly

Spring to lock - energise to unlock Stroke 10mm (Rectifier for A.C. supply)

Function

- force characteristic (fig.2)
- spring to lock, energise to lock
- integral return spring

Construction

- robust cylindrical construction
- coil insulation class F up to 250 volts
- thread nose mounting
- suitable for mounting in any attitude
- high performance maintenance-free bearings
- protection rating IP54, IP65 and ATEX versions available

Applications

- machine tools access controls shutters interlocks
- guards interlocking applications in commerce and industry and gates indexing

Standards

- designed and tested to VDE 0580
- manufactured to ISO 9001

MAGNETSCHULTZ SOLENOIDS AND SOLUTIONS



Fig. 1 G HU Z 040 M20 D03



Product group

G HU Z 040 M20 D03



QUALITY SINCE 1912

Performance and dimensions for type G HU Z 040 M20 D03

SOLENOIDS AND SOLUTIO

MAGNETSCHI

G HU Z 040 M20 D03		
Duty rating (ED)	(%)	100
Stroke (s)	(mm)	10
Work rating (A_N)	(Ncm)	10.8
Power consumption (P ₂₀)	(W)	12.9
Ambient temperature (δ_{11})	(⁰ C)	35
Frequency of operating (S _h max)	(1/h)	25000
Closing time (t ₁)	(ms)	85
Opening time (t ₂)	(ms)	50
Armature weight (m _A)	(kg)	0.078
Solenoid weight (m _M)	(kg)	0.46
Radial bolt load (max) allowable		
(approx) static	(N)	1500
stroke	(N)	8

PERFORMANCE TABLE

Terms are explained in Technical Bulletin G XX & VDE 0580

TABLE BASIS

24V DC 100% duty. Ambient temperature 35°C Heat insulated, free air. horizontal/pull mounted Tolerance +/- 10% (inherent and manufacture)

MOUNTING

Threaded nose mounting with lock nut provides high rigidity. Shotbolts of other sizes and mounting arrangements including ratchet and holding magnet locks are in product groups: G HU Z, G FC, G TC A, G TC E, G DA, G DC, G MH, G MP.

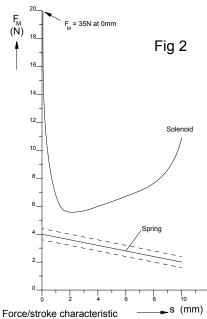
LOCK-BOLT

Radial load to the bolt should be kept within the max. allowable (see table above) so ensuring maximum reliability and operational life with a minimum of maintenance. electronic control is available to give increased stroke force with continuous duty hold. over voltage of 2:1 will give approx. 20N at initiation of stroke

t (on)

DUTY RATING (ED %) % of energised time per cycle $\frac{1}{t(on) + t(off)} \times 100$

Fig.3 G HU Z 040 M20 D03



POWER CONSUMPTION (P₂₀)

Listed wth a 20°C coil temperature (decrease/HOT)

MAGNETIC FORCE (F_M)

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

OPERATING TIMES

 (t_{1}/t_{2}) are listed per cycle of operating in HOT condition at rated voltage with weight load of 70% of force (F_M) at and over rated stroke

SUPPLY VOLTAGE

The standard supply voltages are: 12V and 24V, DC other voltages upon request

PROTECTION

Passivated zinc body

EXAMPLE ORDER CODE

Туре	G HU Z 040 M20 D03
Voltage	24V D.c.
Duty rating (ED%)	100%

