



D C Small Shotbolt **Lock Assembly**

Product group

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

Type G HU Z 040 M20 D03

- 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)
- Spring to lock, energise to unlock
- Integral spring and high endurance, maintenance free bearings
- Robust cylindrical construction
- Threaded nose mounting
- Suitable for mounting and operation in any attitude
 - G HU Z 040 M20 D03



- For direct-acting solenoid equivalent see data sheet G TC A
- Coil with insulation to class F, for voltages up to 250 volts
- Protection classification DIN VDE 0470 / EN60529 Flying leads - IP 00
- Shotbolt, ratchet and holding magnet locks available in other product groups
- **Application**

Access Controls Shutters Interlocks **Machine Tools**

Guards interlocking applications in commerce and industry and gates indexing



Magnet Schultz Limited

3-4 Capital Park



QUALITY SINCE 1912

Performance and dimensions for type G HU Z 040 M20 D03

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)		(°C)	35
Frequency of operating (S _n 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 stroke		(N) (N)	1500 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

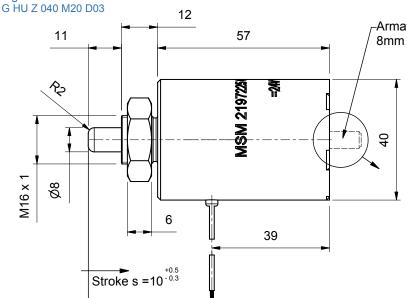
Threaded nose mounting with lock nut provides high rigidity. Shotbolts of other sizes and mounting arrangements including ratchet and holding magnet locks are in product groups: G HU Z, G FC, G TC A, G TC E, G DA, G DC, G MH, G MP.

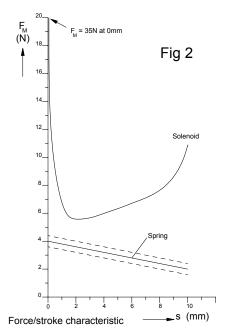
LOCK-BOLT

Fig.3

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

DUTY RATING (ED %) $\frac{t (on)}{t (on) + t (off)}$ x100





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

 $(t_{_{\rm I}}/t_{_{\rm 2}})$ are listed per cycle of operating in HOT condition at rated voltage with weight load of 70% of force $(F_{_{\rm M}})$ at and over rated stroke

SUPPLY VOLTAGE

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

PROTECTION

Passivated zinc body

ORDER CODE

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

