

Electromagnetically Actuated Lock Units

1

Product group

G HU Z 017

- To VDE 0580
- Almost horizontal magnetic force vs stroke graph
- Robust shotbolt
- Pull type (de-energise to lock) and push type (de-energise to unlock)
- Built-in spring return
- Longer stroke on request
- Maintenance-free bearings with long life
- Optional damping in the end positions
- Coil insulation rating F
- Electrical connection and protection if mounted properly:
 - flat connector: see fig. 3 and 4 for dimensions
 - plug connector: make MPM - order ref.:
 - a) MPM 192 - 0.7 N (colour: black)
 - b) MPM 192 - 076 (colour: grey)
- Flange mounting
- Special designs on request
- Applications:
locking of protective equipment, any sorts of shotbolts

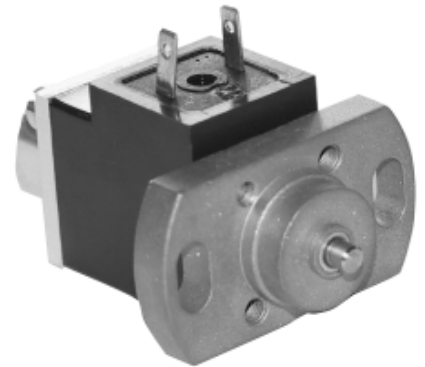


Fig. 1: Type G HU Z 017 L20 A01

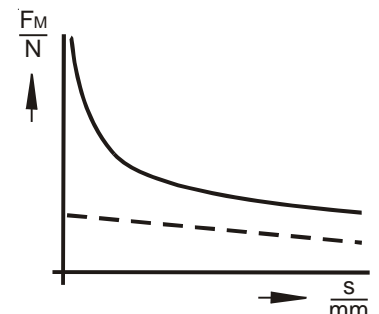


Fig. 2: Force graph



Technical data

G HU Z 017		
Operating mode		S1
Stroke s	(mm)	2.5
Work rating A_N	(Ncm)	0.25
Rated Power P_{20}	(W)	7.0
Reference temperatur ϑ_{11}	(°C)	35
Magnetic force F_M	(N)	1.0
Armature weight m_A	(kg)	0.004
Solenoid weight m_M	(kg)	0,04
Radial bolt load (max.) allowable		
static	(N)	35
(approx.) stroke	(N)	0

Rated voltage $\overset{\text{---}}{=} 24$ V, on request the coil winding can be adjusted to a rated voltage of $\overset{\text{---}}{=} 60$ V maximum.

The magnetic force values mentioned in the tables refer to 90 % of the rated voltage, ($U_N = \overset{\text{---}}{=} 24$ V, for other voltages the magnetic force may differ) and in hot condition.

Owing to natural dispersion, the magnetic force values and the force values of the spring may deviate by 10 % from the values indicated in the tables.

Hot condition is based on:

- mounting on poorly heat-conducting base
- rated voltage $\overset{\text{---}}{=} 24$ V
- operating mode S1
- reference temperature 35° C

The stroking movement through electromagnetic force can be pulling or pushing depending on the design.

The built-in spring sees to return to stroke start position. Operating can be „de-energise to lock“ or „de-energise to unlock“. „De-energise to lock“ operation is preferable.

Reliable flexible mounting is guaranteed through flange mounting.

Please find further details and definitions in our -Technical Explanation or, in VDE 0580 respectively.

Note on the technical harmonisation guidelines within the EU



Electromagnetic solenoids of this product range are subject to the low-voltage guideline 73 / 23 EWG.

To guarantee the targets of this regulation, products are manufactured and inspected to the valid edition of DIN VDE 0580. This also equals a declaration of conformity by the manufacturer.

Note on the EMC (electromagnetic compatibility) guideline 89/336 EWG

Electromagnetic solenoids are not affected by this guideline because neither do they cause electromagnetic disturbances nor can they be disturbed through electromagnetic disturbances. Therefore, the adherence to the EMC guideline has to be guaranteed by the user through appropriate circuitry wiring. Examples for protection circuits can be taken from the corresponding technical documents.

Dimensions sheet

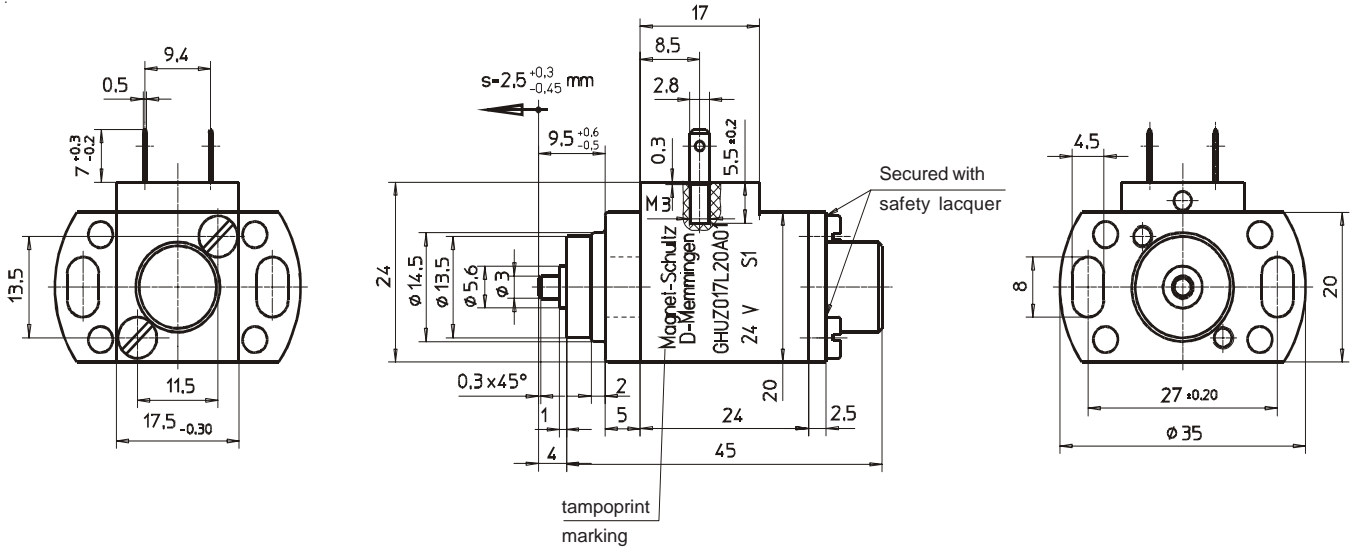


Fig. 3: Type G HU Z 017 L20 A02 / A02
 push type (de-energise to unlock)
 ... A01 with damping
 ... A02 without damping

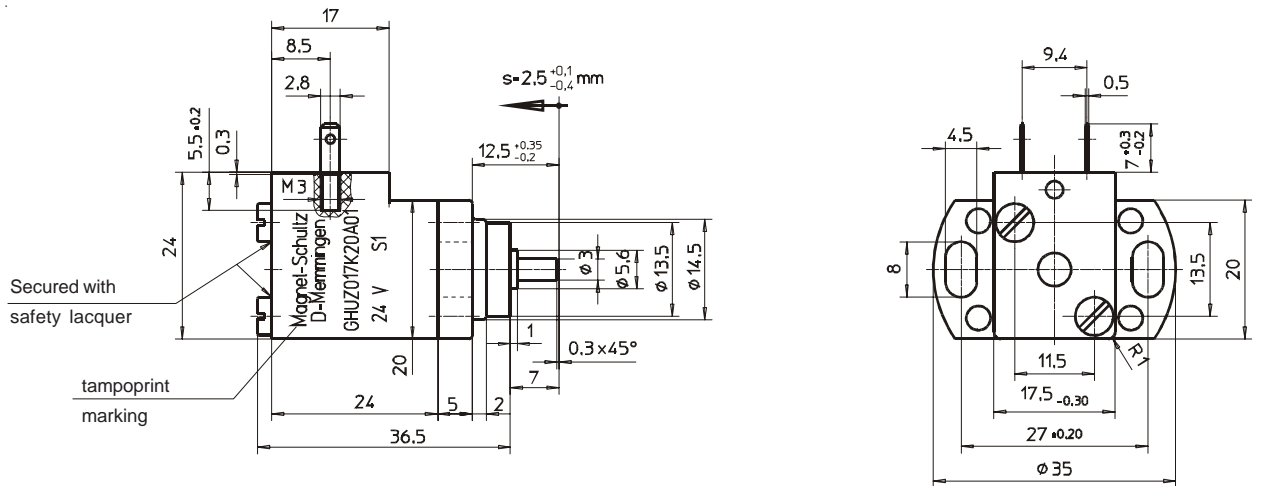


Fig. 4: Type G HU Z 017
 pull type (de-energise to lock)
 ... A01 with damping
 ... A02 without damping

The solenoid shown is not a ready-to-use device in the sense of DIN VDE 0580. The general requirements and protective measures to be taken by the user are included in DIN VDE 0580.




Schlüssel zur Typenbezeichnung

		G	HU	Z	017	L	20	A01
Equipment group								
Basic construction								
Modifications								
Size								
Arrangement	K = de-enerise to lock L = de-enerise to unlock							
Basic protection								
Design number	A01 = with damping A02 = without damping							

Order Example

Type	G HU Z 017 L20 A01
Voltage	 24 V DC
Operating mode	S1 (100 %)

Specials

Please do not hesitate to ask us for application-oriented problem solutions. In order to find rapidly a reliable solution we need complete details about your application conditions. The details should be specified as precisely as possible in accordance with the relevant  - technical explanations.

If necessary, please request the support of our corresponding technical office.