

Electromagnetically Actuated Shotbolt Lock Unit

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Product group

G SC E 037

- According to DIN VDE 0580 and RL 94/9/EC (ATEX 95)
- Almost linear force vs. stroke characteristic
- Solidly executed stainless shotbolt
- Armature space protected by o-ring
- Pull type (de-energized locked) or push type (de-energized unlocked)
- Built-in return spring
- Maintenance-free bearings with long service life
- Exciter coil corresponds to insulation class F
- Electrical connection and protection type with duly executed installation:
 - Protection type according to DIN VDE 0470/EN 60529
 - tube IP 54
 - magnetic body IP 67
- Explosion protection Ex II 2G Ex mb II T4
- Electrical connection via terminal box on request
- Fastening with central thread
- Please contact us for modifications and special designs
- Application examples (according to health and safety at work regulations):
 - Interlocking of protective devices at machines of all sorts in potentially explosive areas
 - Locking, limiting, interlocking of mechanical equipment of all sorts in potentially explosive areas



Fig. 1: Type G SC E 037 AMX A03

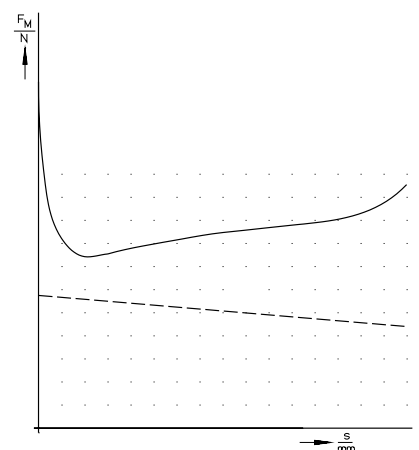
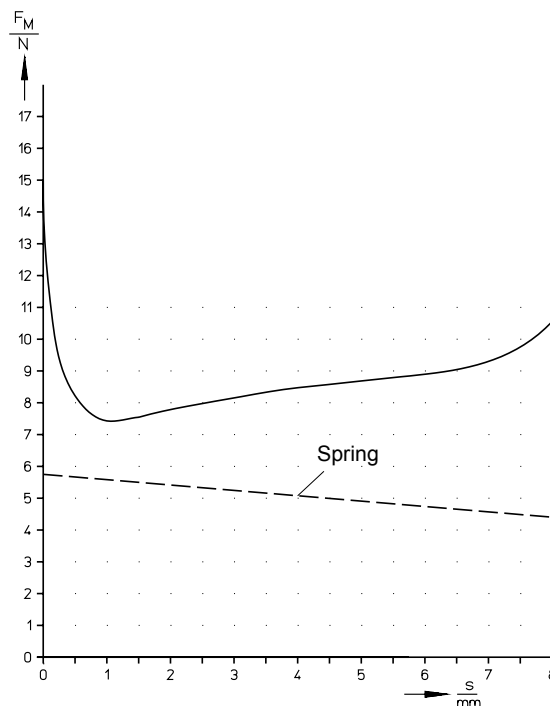


Fig. 2: Force vs. stroke characteristic



Technical data

G SC E 037 A MX A03 / A04		
Operating mode		S1 (100 %)
Ambient temperature T_a	(°C)	-20 up to +40
Stroke s	(mm)	8
Magnetic force F_M	(N)	8
Limit power P_{20}	(W)	10,5
Admissible lateral force in normal position(N)		600
Solenoid weight m_M	(kg)	0,55



0 mm \approx 14 N für G SC E 037

Fig. 3: Force vs. stroke characteristic and return spring

Rated voltage \approx 24 V, the exciter coil can be adjusted to a rated voltage of \approx 60 VDC max. if desired.

Rated voltages up to \approx 250 V on request

The magnetic force values indicated in the tables refer to 90% of the rated voltage ($U_N = \approx$ 24 V) and to the normal operating temperature according to DIN VDE 0580. For other voltages deviations may occur.

Due to natural dispersion the force values and the force values of the spring may deviate by \pm 10% from the values indicated in the tables.

The normal operating temperature is based on:

- Mounting on badly conductive base
- Rated voltage \approx 24 V
- Operating mode S1 (100%)
- Reference temperature 40°C (ambient temperature)

The stroke movement effected by the electromagnetic force can be pulling or pushing depending on the design.

The reset in the stroke start position is effected by the built-in spring. Both operations "de-energized locked" and "de-energized unlocked" are possible. However, the operation "de-energized locked" is preferable.

The central fastening guarantees a reliable and flexible mounting.

Designs with manual override on request.

This part list is a document for technically qualified personnel. The present publication is for informational purposes only and shall not be construed as mandatory illustration of the products unless otherwise confirmed expressively

Please note the respective operating manual delivered with each device. An EC conformity declaration of the manufacturer is attached to every delivery one time.

Please make sure that this device is suitable for your application.

Information and remarks concerning European directives can be taken from the correspondent information sheet which is available under Produktinfo.Magnet-Schultz.com.

Note on the RoHS Directive

The devices presented in this document do not fall into the scope of RoHS Directive and to our knowledge they do not become part of products which fall into this scope. In case of surfaces zinc coating with yellow chromating and zinc iron with black chromating separate agreements are necessary for applications within the scope of RoHS.

Dimensional drawing

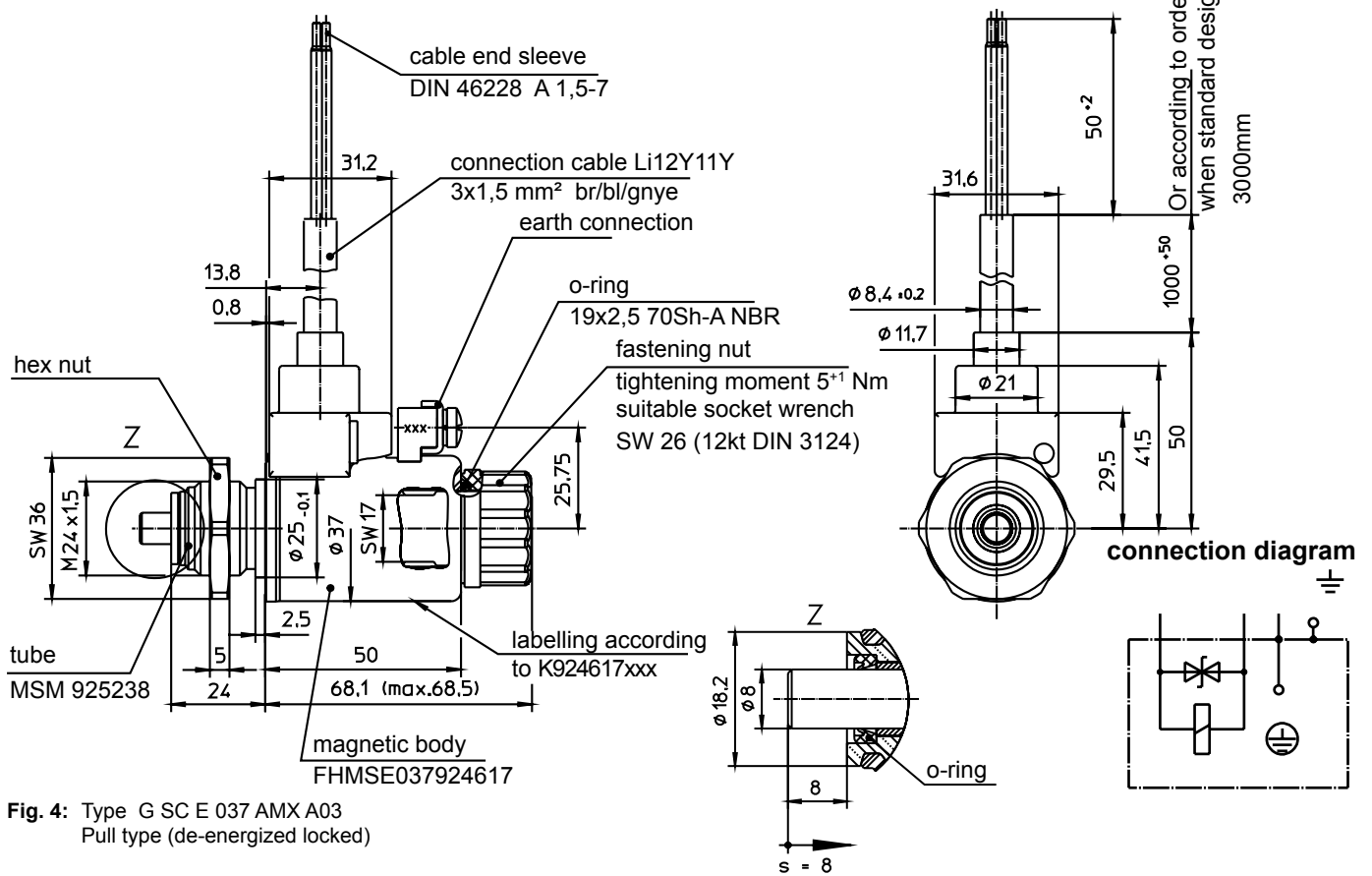


Fig. 4: Type G SC E 037 AMX A03
Pull type (de-energized locked)

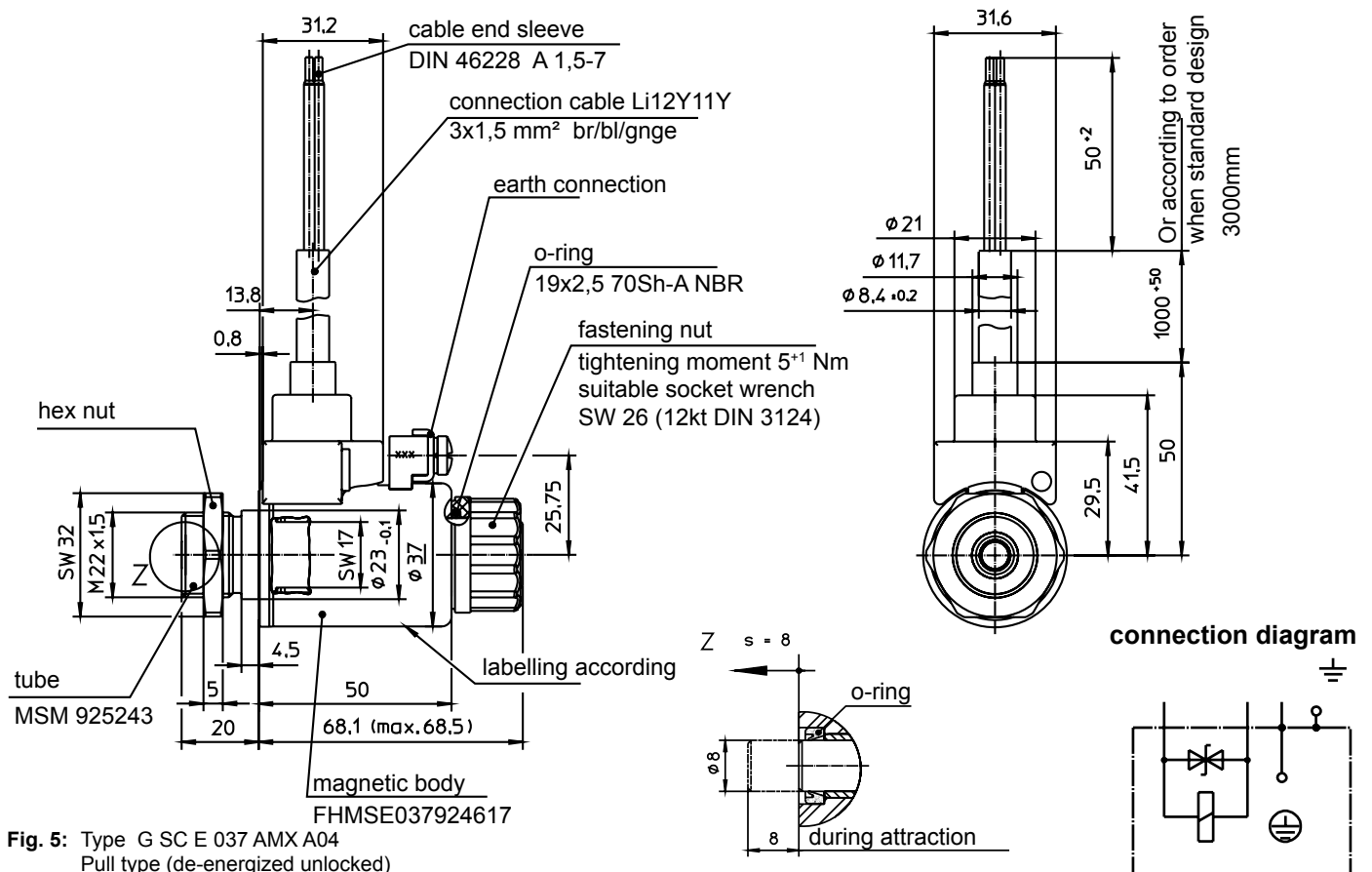


Fig. 5: Type G SC E 037 AMX A04
Pull type (de-energized unlocked)




Key for type designation

Designation	Design	Cable length standard
G SC E 037 A MX A03	pull type (de-energized locked)	3m
G SC E 037 A MX A04	push type (de-energized unlocked)	3m

Order example

Type	G SC E 037 AMX A03
Voltage	== 24 V DC
Operating mode	S1 (100 %)
Cable length	3 m

Special designs

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.