

Electromagnetically actuated shotbolt lock unit

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Product group

G SC X 037

- According to DIN VDE 0580
- Almost linear force vs. stroke characteristic
- Solidly executed stainless shotbolt
- Armature space protected by o-ring
- Pull type (de-energized locked)
Push type (de-energized unlocked)
- Built-in return spring
- Maintenance-free bearings with long service life
- Exciter coil corresponds to insulation class F
- Protection type tube IP 54
- Electrical connection and protection class coil with duly executed installation
 - Plug connection via receptacles according to DIN 46247
Protection class according to DIN VDE 0470/EN 60529 – IP 00
 - Plug connection via plug connector
Z KB according to DIN EN 175301-803
Cable gland (4x 90 degree rotatable)
Protection class according to
DIN VDE 0470/EN 60529 – IP 54
- Further electrical connections 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 protectors of machines of all sorts
 - Locking, limiting, interlocking of mechanical equipment
of all sorts



Fig. 1: Type G SC X 037 N43 A02

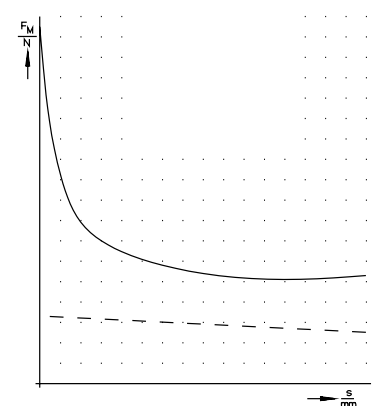


Fig. 2: Force vs. stroke characteristic



Technical data

G SC X 037	
Rated voltage U_N	24 V
Operating mode	S1 (100 %)
Reference temperature ϑ_{13}	35 °C
Rated power P_{20}	19,1 W
Stroke	8 mm
Magnetic force F_M	10,8 N
Admissible lateral force in normal position	600 N

Rated voltage \approx 24 V, the exciter coil can be adjusted to a rated voltage of \approx 60 VDC if desired. Rated voltages until \approx 250 V are possible on request.

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

Due to natural dispersion the magnetic 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 35 °C

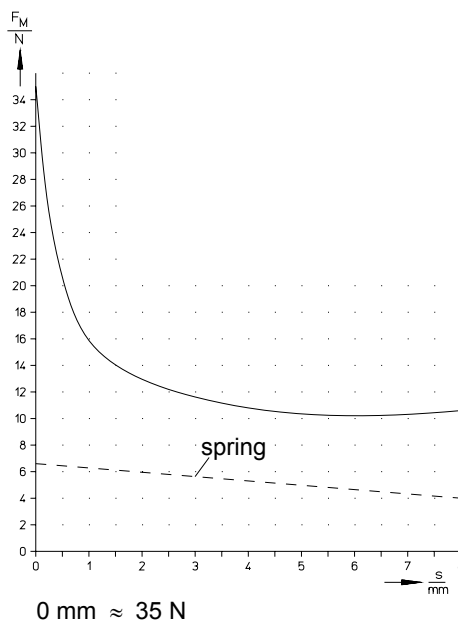
The stroke movement effected by the electromagnetic force can be pulling or pushing depending on the design.

The reset in 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 assembly.

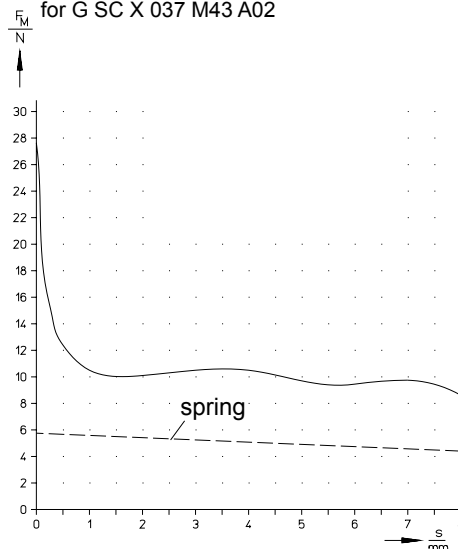
Further sizes and designs with signal switch or manual override on request.

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.



0 mm \approx 35 N

Fig. 3: Force vs. stroke characteristic and return spring for G SC X 037 M43 A02



0 mm \approx 28 N

Fig. 4: Force vs. stroke characteristic and return spring for G SC X 037 N43 A02

Please make sure that the described devices are suitable for your application. Supplementary information concerning its duly assembly can be found also in -Technical Explanations, in the effective DIN VDE0580 as well as in the relevant specifications.

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

According to our current state of knowledge the devices pictured in this document do not contain any substances in concentration values or applications for which putting into circulation with products manufactured from them is prohibited in accordance to RoHS.

Dimensional drawing

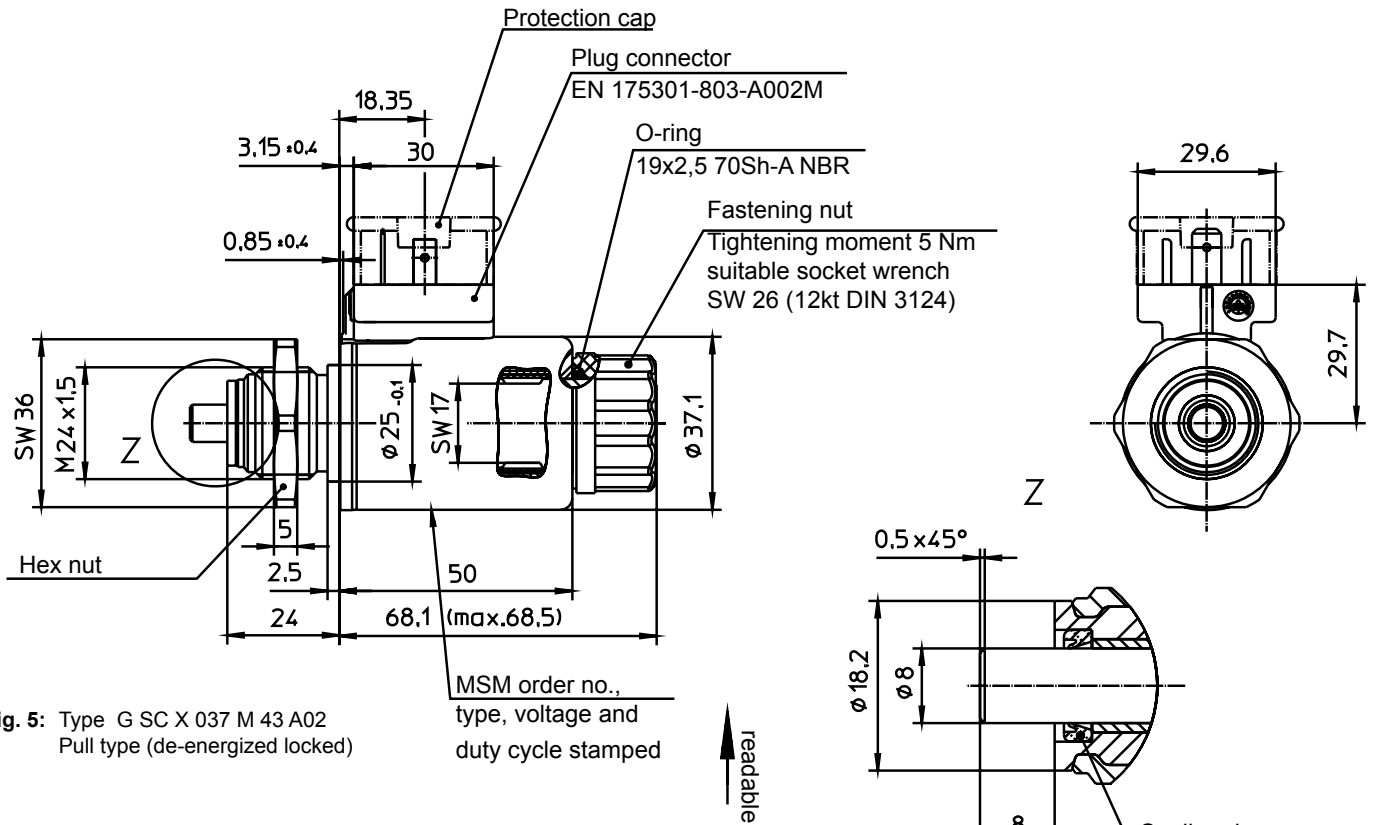


Fig. 5: Type G SC X 037 M 43 A02
Pull type (de-energized locked)

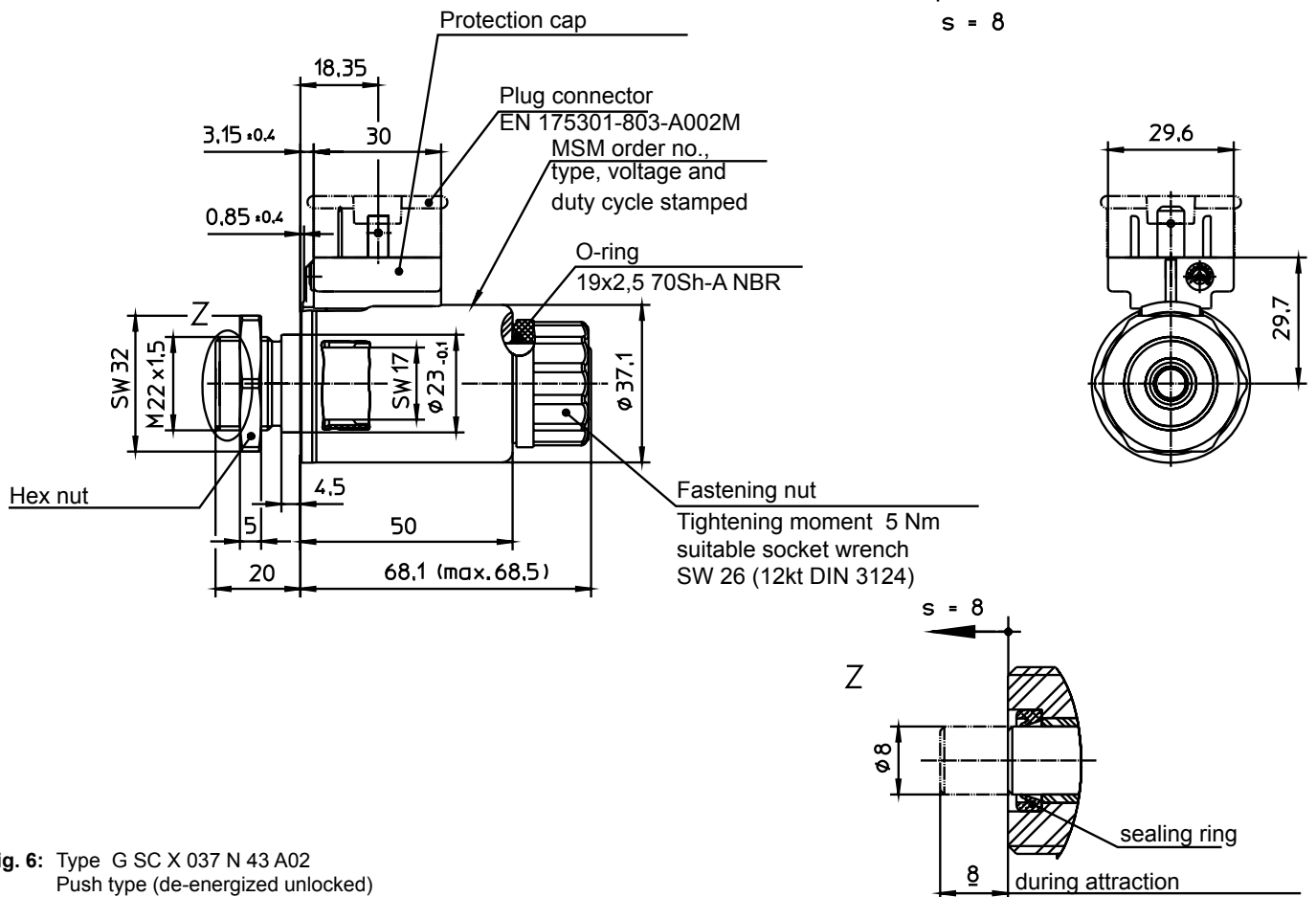


Fig. 6: Type G SC X 037 N 43 A02
Push type (de-energized unlocked)




Type code

	G	SC	X	037	M 43	A02
Device group						
Series						
Modifications						
Size in the series						
Execution in the series						
Protection code						
Design number						

Order example

Type	G SC X 037 M43 A02
Voltage	==24 V DC
Operating mode	S1 (100 %)

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.