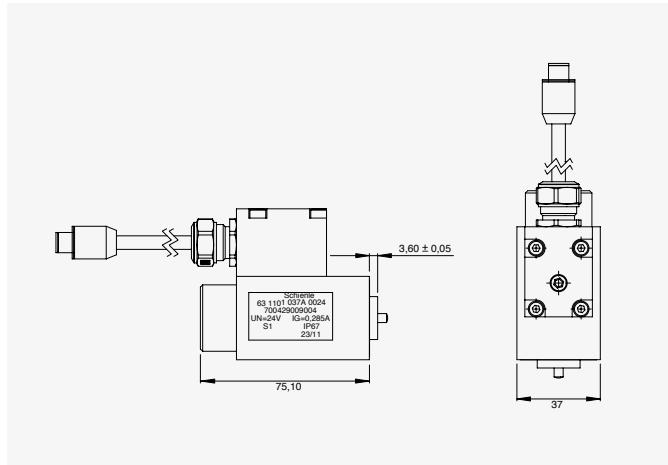


Valve solenoid on/off Robust 37



The pressure-proof Robust 37 solenoid stands out thanks to its exceptional reliability under critical operating conditions.

- Extreme ambient und process temperatures of -40 to +135 °C
- Strong vibrations 40 g
- Large fluctuations in supply voltage

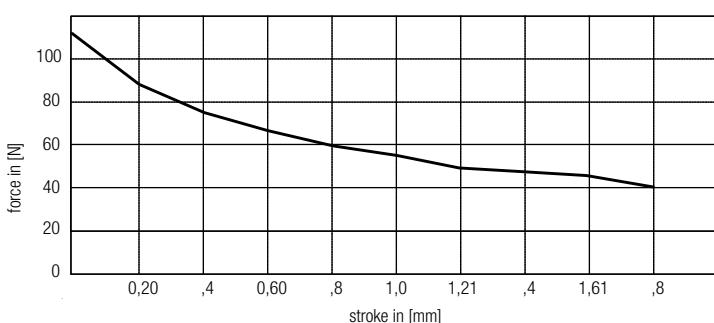
The four point valve fastening is designed to secure the solenoids reliably and safely even in the presence of strong vibrations. The reduced anchor mass is designed to guarantee safe operation of the valve even at 40 g (11 ms, half-sine).

Tailored for mobile applications, the coil is designed to be able to perform lifting work even at 25% undervoltage. Thanks to appropriate lay-out design and material choice, the coil temperature will remain at uncritical levels even at 30% overvoltage.

Technical data

duty cycle [%]	100
max. ambient temperature [C°]	40
working stroke [mm]	6+0,8
nominal power [W]	60
nominal voltage [V]	12 – 205
ingress protection rating	IP 65
thermal class (coil)	F
electrical connection	DIN A, B, C, AMP, DT, Desina usw.
surface protection	coneical cover and housing zinc-coated

Force vs. stroke diagram



General		Vibration		
medium:	Mineral oil	white noise:	30 g rms (10 to 2000 Hz)	
nominal pressure:	150 bar	sine:	30 g (55,7 to 2000 Hz)	
maximum operating pressure:	300 bar	shock:	50 g/11 ms, half-sine	
Electrical data			protection type (DIN 40050):	
operating voltage:	24 V DC. Voltage tolerance 18 – 32 V	wear resistance of housing material:	IP69 K; IP67	
power consumption:	8 W	housing / cable wear resistance:	Iron parts galvanized according to DIN 50979 Fe//Zn8//Cn//T0 aluminium components bl elox.	
pull power:	max. 0.7 A	housing / cable wear resistance:	Lubricating oil, diesel fuel, coolant, detergent	
Resistance (Ohm, 20°C):	72 (+10 %/-10 %)	Interfaces/Connections		
duty cycle:	Magnet or V-Block ambient temp. 135 °C S3 30 % ED 5 min at 30 V, 15 min at 32 V & 20 °C	electrical	connection:	Cable tail with 3-pole plug M12x1 according to EN 60947-5-2
quenching circuit:	Varistor S10V-S07K50	Mechanical data		
cable entry:	Bolting	cable	tensile strength:	> 100 N at 23 °C and 100 °C
electrical connection:	fixed	EMC		
class of insulating material according to VDE 0580:	F	requirements:	MIL-STD 461E (2007), VG 95373, depending on plug and cable	
insulation strength:	≥ 10 M Ohm	Installation info		
overvoltage strength:	55 V / 100 ms	installation position:	any	
actuation time:	≤ 25 ms	position of magnet to valve body:	selectable in 90 degree position	
Environmental conditions				
temperature				
medium:	-40° to +135 °C			
environment:	-40° to +135 °C			
stock:	-50° to +135 °C			
cable / plug:	-50° to +150 °C			
humidity:	< 98 % rel. humidity at 55 °C			