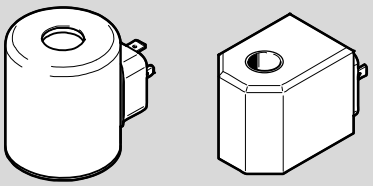
Solenoid coil
VACC-S13/S18-...-A1



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Operating instructions 8084410
(Translation of the original instructions) 2017-11
[8084412]

For all available product documentation ➔ www.festo.com/pk

1 Function

When switching on the voltage, the solenoid is energised and the valve is actuated.

2 Application

- The solenoid coil is intended to be used as an actuator for solenoid valves.

3 Requirements for product use

Warning

Danger of injury due to electrocution.
Switch off the power supply on prior to all work.

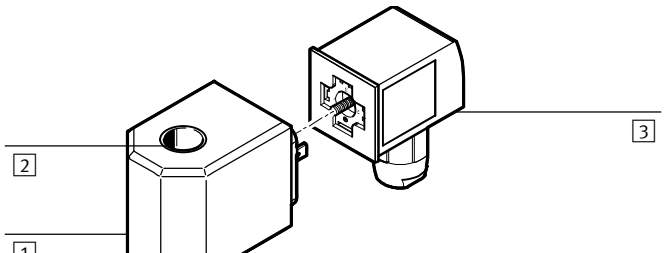
- Mounting, installation and commissioning should only be carried out by qualified electrical specialists.
- Use the device in its original status, without any unauthorised modifications.
- The protection rating IP65 is ensured only due the suitable plug with seals.

4 Commissioning

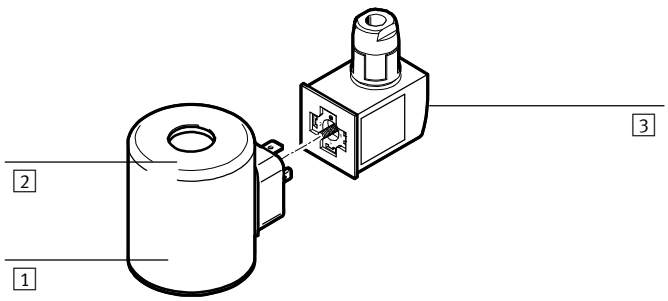
- Observe the product labelling.
- Do not commission the solenoid coil until after mounting.

5 Installation

- An appropriate circuit breaker in the building installation must be present, easily accessible and marked as a disconnecting device for the device.
- Use only flexible cables. Minimum section: 1 mm²
- Ensure the protection class through a suitable installation.

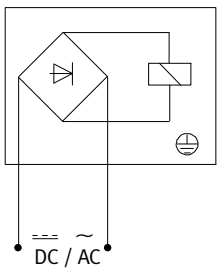


1 Solenoid coil VACC-S13-...-A1-...
2 Diameter: 13 mm
3 Socket (not included in delivery)

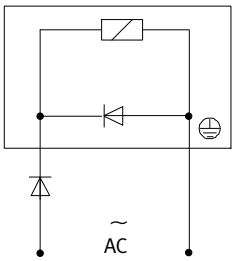


1 Solenoid coil VACC-S18-...-A1-...
2 Diameter: 18 mm
3 Socket (not included in delivery)

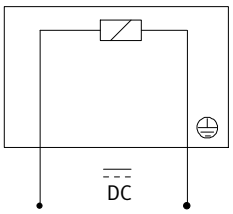
Block circuit diagrams



VACC-S13-18-A1-1U
VACC-S13-18-A1-2U
VACC-S13-18-A1-3U



VACC-S18-35-A1-1A
VACC-S18-35-A1-2A
VACC-S18-35-A1-3A
VACC-S18-120-A1-1A
VACC-S18-120-A1-2A
VACC-S18-120-A1-3A



VACC-S13-18-A1-1
VACC-S18-35-A1-1
VACC-S18-120-A1-1

6 Operation

- Observe the operating conditions.
- Comply with permissible limit values ➔ Technical data.

Warning

Risk of injury from hot surfaces.
The surfaces on the housing of the solenoid coil can get hot.
- Do not touch the housing.

7 Maintenance and care

- Changes or repairs to the solenoid coil are not permitted.
- The device is maintenance-free.
- Clean the solenoid coil only when the power supply is switched off. Do not use abrasive or aggressive detergents.

8 Technical data

Operating conditions	S13	S18
Ambient temperature	–20 ... +60 °C	
Degree of protection	IP65	
Duty cycle	100 % (continuous operation)	
Relative humidity	95 % (non-condensing)	
Connecting cables	Plugin accordance with EN 175301-803; Form A	
Materials		
Housing	PA	Steel
Solenoid coil	PA, UP	
Assembly	Individual mounting	
Installation position	Optional	
CE label (Declaration of conformity ➔ www.festo.com/sp www.festo.com/sp)	according to low-voltage directive and RoHS Directive	

		S13-18-A1-1	S13-18-A1-1U	S13-18-A1-2U	S13-18-A1-3U
Type of voltage		Direct voltage	Alternating voltage (50 ... 60 Hz) Direct voltage		
Protection class		III	III	II	II
Nominal voltage U_N (–15 % / +10 %)		24 DC	24 V DC/AC	110 V DC/AC	230 V DC/AC
Nominal power P_{20}	W/VA	2,1		1,8	
Resistance R_{20}	Ω	277	263	6660	30000
Current consumption I_{20}	mA	87	86	16	7,6

		S18-35-A1-1	S18-35-A1-1A	S18-35-A1-2A	S18-35-A1-3A
Type of voltage		Direct voltage	Alternating voltage (50 ... 60 Hz)		
Protection class		III	III	I	I
Nominal voltage U_N (–15 % / +10 %)		24 V DC	24 V AC	110 V AC	230 AC
Nominal power P_{20}	W/VA	3,6	5	5	5
Resistance R_{20}	Ω	158	42,1	902	3690
Current consumption I_{20}	mA	152	277	61	31

		S18-120-A1-1A	S18-120-A1-2A	S18-120-A1-3A	S18-120-A1-1
Type of voltage		Alternating voltage (50 ... 60 Hz)			Direct voltage
Protection class		III	I	I	III
Nominal voltage U_N (–15 % / +10 %)		24 V AC	110 V AC	230 V AC	24 DC
Nominal powerP_{20}	W/VA	15	15	15	12,7
Resistance R_{20}	Ω	13,6	322	1300	45,4
Current consumption I_{20}	mA	857	170	88	529