

Installation and Operating Instructions for Spark Quenching Unit Type 070.000.6

(B.0700006.GB)

Manufacturer's Declaration

This product is intended for installation in a machine or system, based on the machine directive 2006/42/EC. It is forbidden to start use of the product until the machine or system into which it should be built is operating in accordance with the EC directives.

The product corresponds to the low voltage directive 2006/95/EC.



Safety Regulations

Danger!

Danger of death when touching blank parts. The component connection terminals and the contactable connection wires have mains power potential. To prevent injury or damage, only professionals and specialists should work on the devices, following the relevant standards and directives. Please read the Installation and Operational Instructions carefully before installation and initial operation of the device.

Warning!

Electronic devices cannot be guaranteed fail-safe. Therefore, please observe:

- Danger from devices caused by short circuits and earth short circuits at the terminals
- The spark quencher can only be used for mains DC voltage. Therefore, please observe the voltage potentials on connection.

Warning:

Without a conformity inspection, this product is not suitable for use in areas where there is a high danger of explosion. This statement is based on directive 94/9 EC (ATEX directive).

Application

Reduces spark production on the switching contacts occurring during VDC inductive load switching.

- Voltage limitation according to VDE0580 2000-07, Item 4.6.
- Reduction of EMC-disturbance by voltage rise limitation, suppression of switching sparks.
- Reduction of brake engagement times by a factor of 2-4 compared to freewheel diodes.

Function

The spark quenching unit will absorb voltage peaks resulting from inductive load switching, which can cause damage to insulation and contacts. It limits these to 70V and reduces the contact load. Switching elements with a contact opening distance of > 3 mm are suitable for this purpose.

Electrical Connection (Terminal)

- 1 (+) Input voltage
- 2 (-) Input voltage
- 3 (-) Coil
- 4 (+) Coil
- 5 Free nc terminal
- 6 Free nc terminal

Technical Data

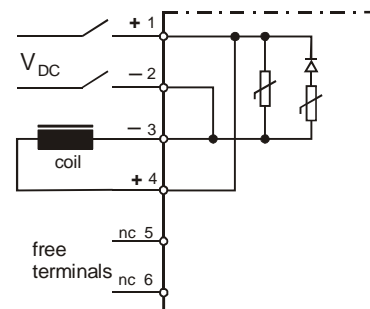
Input voltage	max. 300 VDC, max. 615 V _{peak} (rectified voltage 400 VAC, 50/60 Hz)
Switch-off energy	max. 9J/2 ms
Power dissipation	max. 0.1 Watt
Max. voltage nc terminals	250 V
Protection	IP65 / IP20 terminals
Ambient temperature	-25 °C up to +85 °C
Storage temperature	-25 °C up to +105 °C
Max. conductor connection diameter	2.5 mm ² / AWG 26-12
Max. terminal tightening torque	0.5 Nm

Accessories:

- Mounting bracket set for 35 mm rail acc. to EN50022: Article No. 1803201



Wiring Example



Dimensions (mm)

