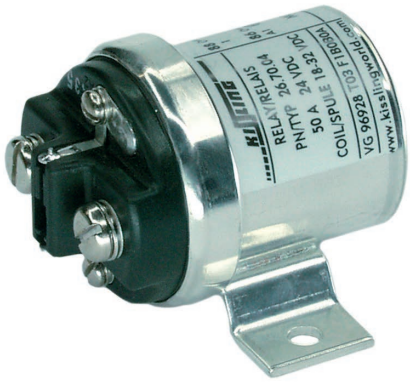


# KISSLING
# HIGH PERFORMANCE RELAYS

## Series 26 / 50A - from TE Connectivity (TE)

The KISSLING 26 series dual coil relays are developed using our competence and expertise gathered over decades of manufacturing to meet demanding operating requirements.

This coil system relay features extremely high shock and vibration resistance predominantly from careful design and an optimized magnetic circuit. The sealing technology used in these relays meet both the IP67 and IP6K9K (Steam pressure cleaning) protection standard. This relay series is well suited for various applications in severe commercial, military and aviation applications.

Other important advantages are low heat generation in the contact area based on low contact voltage drop, a compact design, low holding current, silver alloy contact material and the use of mechanical and high thermal stability insulating compounds. Both the terminals and housing is corrosion resistant for high climatic conditions and withstands a variety of different oils and fluids.

These relays are available with a wide variety of configuration options including contact configurations (NO, NC, NO/NC), coil voltages (12V, 24/28V) and various bracket styles to meet your installation conditions.  Also available are optional suppression devices to eliminate electromagnetic interference at the coil and optional auxiliary contacts.

### Features

- Sealed housing conforms to IP67 / IP6K9K
- Monostable high performance relay
- Mechanical life tested for 1 million mechanical cycles
- Up to 30G shock & 10G vibration resistant
- Military grade performance
- Wide variety of configuration options for individual needs
- Meets the requirements of MIL-R-6106

### Applications

- Truck
- Bus
- Ground support vehicles
- Construction and agricultural vehicles
- Power Distribution
- Aviation industry
- Military

## Specification

### Technical Data

| | |
|---|---|
| Temperature range | -55°C to +85°C |
| Max. Altitude rating | 50.000 ft |
| Protection | IP6K9K / IP67 |
| Shock | 10G - 6msec / 500G - 0,5msec |
| Vibration | Types 26.70... & 26.73 = 1,5G (10-400Hz) / 1G (400-2000Hz)<br>Types 26.71... & 26.72 = 10G (10-500Hz) |
| Acceleration | 15G |
| Thread sizes / Torque | M3 = 3.2 - 3.5Nm \| M5 = 0.5 - 0.6Nm |
| Wire section | min 6mm² / AWG 9 |
| Mounting option | optional |

### Electrical Characteristics

| | |
|---|---|
| Min. Insulation Resistance | 100MΩ |
| After llve or environmental | 50MΩ |
| Dielectric withstanding voltage | 1050VAC / 1min at 50Hz |
| Max. Contact drop, initial | 150mV |
| Contact drop after life test | 175mV |
| Continuous current | 50A |
| Overload | 10A - 1sec / 100A - 20sec |
| Rupture current | 500A |
| Types 26.70.08/09 Overload | 400A - 0,5sec / 200A - 1sec / 100A - 20sec |

### Rated contact load (12 & 24 / 28VDC)

| | |
|---|---|
| Resistive load | 100.000 cycles - 50A |
| Mecahnical Life (iaw MIL-R-6106) | 200.000 cycles - 12A |
| Endurance | 1.000.000 cycles - 12A |
| Types 26.70.08/09 Overload | 50.000 cycles<br>400A on / 50A off |

### Coil Data

| Coil Data | Types 26.70 / 71 / 73 | | Types 26.72 | |
|---|---|---|---|---|
| | 12VDC | 24 / 28 VDC | 12VDC | 24 / 28 VDC |
| Voltage range | 10-16VDC | 18-32VDC | 10-16VDC | 18-32VDC |
| Nominal voltage | 12VDC | 24/28VDC | 12VDC | 24/28VDC |
| Pick up voltage max. | 10VDC | 18VDC | 10VDC | 18VDC |
| Drop out voltage | ≤ 3VDC | ≤ 6VDC | ≤ 3VDC | ≤ 6VDC |
| Coil resistance | 26Ω ± 10% | 110Ω ± 10% | 21Ω ± 10% | 88Ω ± 10% |
| Coil current max. | 0,6A | 0,25 / 0,30A | 0,7A | 0,3 / 0,4A |

| Operating times | NO Contact \| Changeover |
|---|---|
| Operate | max. 30msec |
| Bounce | max. 8msec |
| Release with suppression | max. 120msec \| max. 80msec |
| Release without suppression | max. 15msec |

| Operating times | NC Contact \| Changeover |
|---|---|
| Break time | max. 25msec |
| Bounce | max. 8msec |
| Make time with suppression | max. 100msec \| max. 80msec |
| Make time without suppression | max. 25msec \| max. 20msec |

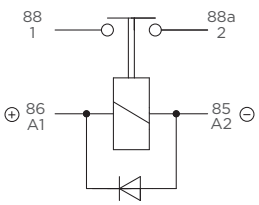
## Available Types

| | Type<br>Ordering key | Contact<br>NO | Contact<br>NC | Side mounting | 4-hole side mounting | 90° Version | Long form bottom mount. | Short form bottom mount. | Stud mount. | Suppression | Weight kg / pound |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12V | 26.70.24 | x | | x | | | | | | x | 0.33 / 0.73 |
| | 26.70.25* | x | | x | | | | | | | 0.33 / 0.73 |
| | 26.71.21 | x | | | | | | x | | x | 0.34 / 0.75 |
| | 26.71.22 | x | | | | | | x | | | 0.34 / 0.75 |
| | 26.71.24 | x | | | x | | | | | x | 0.34 / 0.75 |
| | 26.71.25 | x | | | x | | | | | | 0.34 / 0.75 |
| | 26.72.21 | x | x | | x | | | | | x | 0.40 / 0.88 |
| | 26.72.22 | x | x | | x | | | | | | 0.40 / 0.88 |
| | 26.72.23 | x | x | | x | x | | | | x | 0.40 / 0.88 |
| | 26.72.24 | x | x | | x | x | | | | | 0.40 / 0.88 |
| 24V / 28V | 26.70.01 | x | | | | | x | | | x | 0.35 / 0.77 |
| | 26.70.02 | x | | | | | x | | | | 0.35 / 0.77 |
| | 26.70.04 | x | | x | | | | | | x | 0.33 / 0.73 |
| | 26.70.05* | x | | x | | | | | | | 0.33 / 0.73 |
| | 26.70.06 | x | | | | | | | x | x | 0.33 / 0.73 |
| | 26.70.07 | x | | | | | | | x | | 0.33 / 0.73 |
| | 26.70.08 | x | | | | | | | x | x | 0.33 / 0.73 |
| | 26.70.09 | x | | | | | | | x | | 0.33 / 0.73 |
| | 26.71.01 | x | | | | | | x | | x | 0.34 / 0.75 |
| | 26.71.02 | x | | | | | | x | | | 0.34 / 0.75 |
| | 26.71.04 | x | | | x | | | | | x | 0.34 / 0.75 |
| | 26.71.05 | x | | | x | | | | | | 0.34 / 0.75 |
| | 26.72.01 | x | x | | x | | | | | x | 0.40 / 0.88 |
| | 26.72.02 | x | x | | x | | | | | | 0.40 / 0.88 |
| | 26.72.03 | x | x | | x | x | | | | x | 0.40 / 0.88 |
| | 26.72.04 | x | x | | x | x | | | | | 0.40 / 0.88 |
| | 26.73.04 | | x | x | | | | | | x | 0.33 / 0.73 |
| | 26.73.05* | | x | x | | | | | | | 0.33 / 0.73 |

Other types and customer specified types upon request / also available with current sensing / * Standard version

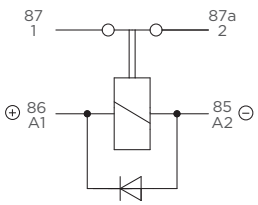
## Circuits

### NO-Contact



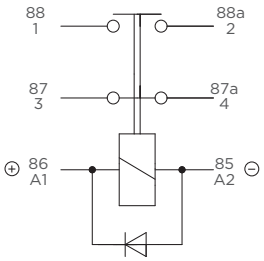

Suppression diode

### NC-Contact




Suppression diode

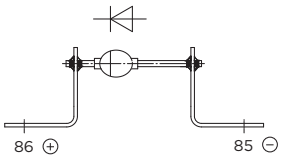
### NO/NC-Contact




Suppression diode

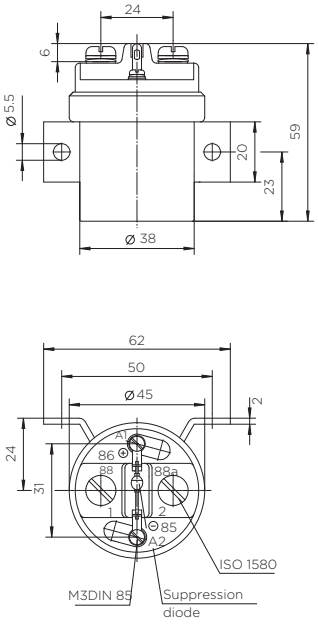
### Suppression dioide

26.70.50

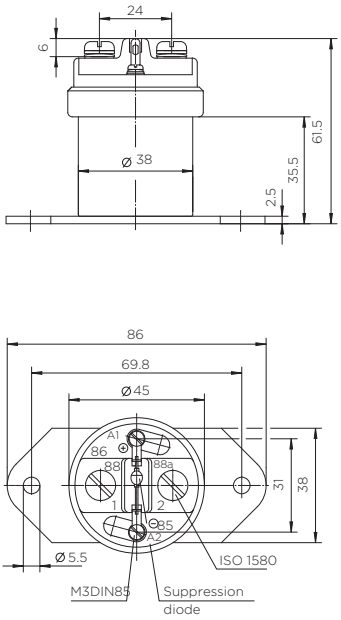


## Technical drawings

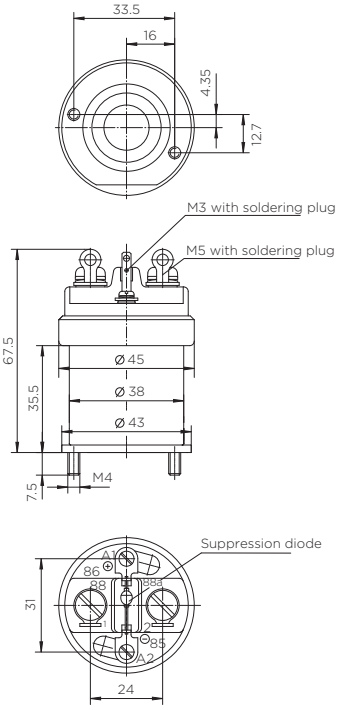
### Side mounting
Types 26.70... & 26.73...



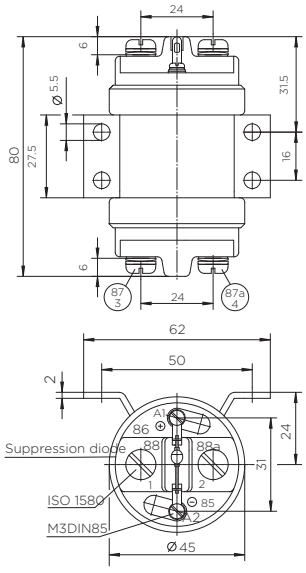

### Long bottom mounting
Types 26.70... & 26.73...



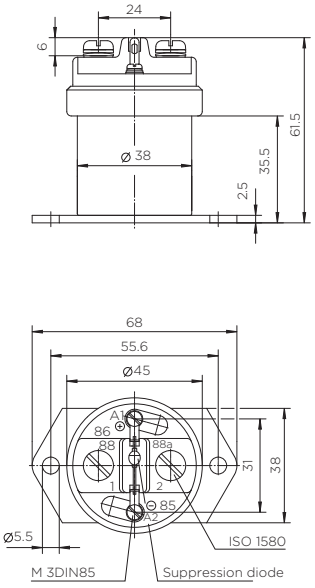

### Stud mounting
Types 26.70.06/07/08/09



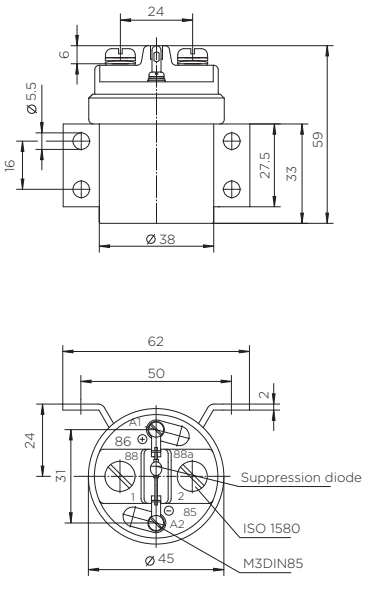

### Change over NO/NC
Types 26.72...




### Short form bottom mounting
Types 26.71...




### 4-hole side mounting
Types 26.71...

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