



#### **Features**

- Sealed housing conforms to IP6K9K
- Robust design
- Minimized coil current
- Variety of configuration options
- 6G shock and 4G vibration resistant
- Main contact current rated for continuous current and 100% duty cycle
- Efficient coil and magnetic circuit design with switching properties and holdingcurrent requirements

#### **Applications**

- Truck
- Bus
- Ground support vehicles
- Construction and agricultural vehicles
- Fork lift applications

# KISSLING SINGLE POLE POWER RELAYS

Series 29 / 75A - from TE Connectivity (TE)

The economical 29 series single coil relays with 75 amps (A) are developed using our competence and expertise gathered over decades of manufacturing to meet even the most demanding operating requirements.

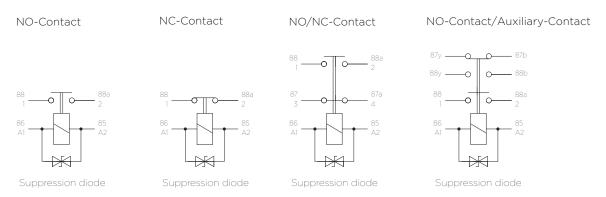
This single coil system relay features high shock and vibration resistance predominantly from its careful design and an optimized magnetic circuit. The sealing technology used in these relays meets both the IP67 and IP6K9K (Steam pressure cleaning) protection standard. This relay series is well suited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

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 the housing are protected against corrosion.

By equipping these relays with blow-out magnets, contact voltages are also achievable up to 250VDC. The use of blow-out magnets are also recommended for contact voltages over 40VDC and for inductive load applications to maintain long contact life at all voltages.

Also available are various bracket styles to meet your installation conditions and suppression devices to eliminate electromagnetic interference at the coil and optional auxiliary contacts.

#### Circuits



## **Specification**

## **Technical Data**

Temperature range	-40°C to +85°C	
<b>Protection</b> IEC 60529 & DIN 40050-9 - IP67 (0,2bar, 1min) and IP6K9K		
Shock	6g / 11msec	
Vibration	4g / 50-2000Hz	
Thread sizes / Torque	ad sizes / Torque M3.5 = 1.1 - 1.2Nm   M4 = 2.0 - 2.2Nm   M5 = 3.2 - 3.5Nm	

#### **Electrical Characteristics**

Min. Insulation resistance	100ΜΩ
After live or environment	50ΜΩ
Dielectric withstanding voltage	1050VAC / 1min at 50Hz
Max. Contact drop, initial	150mV
Contact drop after life test	175mV
Continuous current	75A
Overload	600A - 1sec / 150A - 20sec

Rated contact	12/24/28/36VDC	48VDC	80VDC
Resistive load	75A	75A	50A
Cycles	200.000	100.000	100.000
Mechanical life	2.000.000 cycles	2.000.000 cycles	2.000.000 cycles

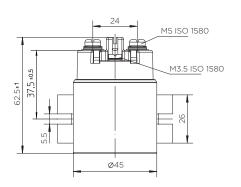
Coil Data	12VDC	24/28VDC	48VDC	80VDC
Voltage range	9-16VDC	18-32VDC	36-54VDC	60-80VDC
Nominal voltage	12VDC	28VDC	48VDC	80VDC
Pick up voltage max.	9VDC	18VDC	36VDC	60VDC
Drop out voltage min.	≤ 2VDC	≤ 4VDC	≤8VDC	≤8VDC
Coil resistance	19Ω ± 10%	76Ω ± 10%	280Ω ± 10%	900Ω ± 10%
Coil current approx.	0.60A	0.30A	0.20A	0.12A
Coil power approx.	8W	10W	8.5W	9.5W

## Operating times NO-Contact relay

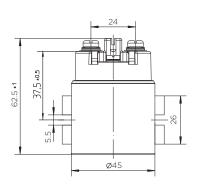
Operate	max. 35msec	
Bounce	max. 5msec	
Release	max. 15msec	
Wire Section	min. 10mm²/ 0.016 sq.inch / AWG 7	
Mounting position	optional	

## **Technical drawings**

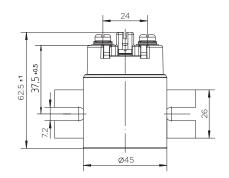
#### Standard side mounting

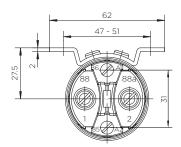


Short form side mounting



Long form side mounting

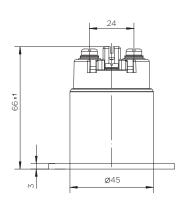




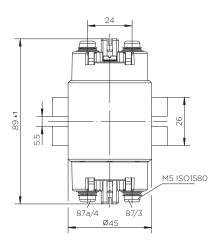
55 40 - 45 88 88 88 1 1 2

76 50 - 62

**Bottom mounting** 

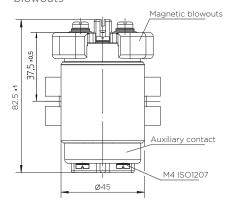


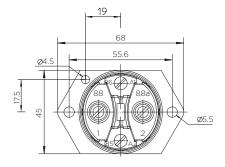
Change-over NO/NC

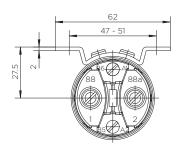


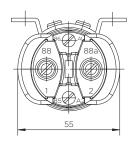
Options:

Auxiliary contacts, magnetic blowouts

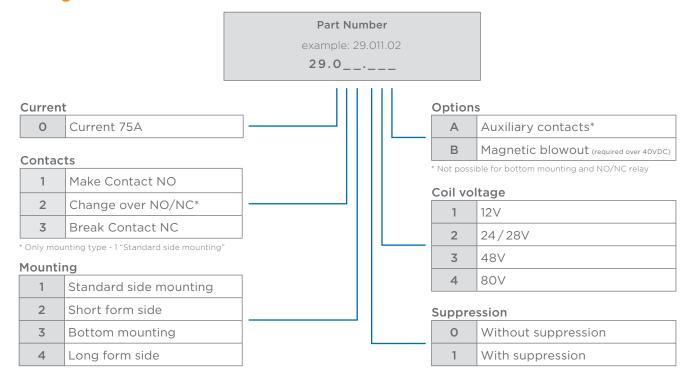








## **Ordering Information**



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