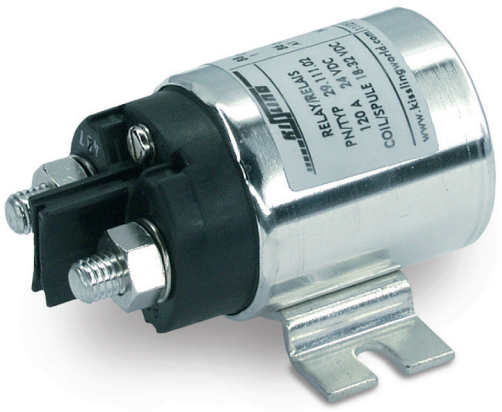


KISSLING
SINGLE POLE POWER RELAYS

Series 29 / 120A - from TE Connectivity (TE)

The economical 29 series single coil relays with 120 amps (A) are developed sing 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.

Features

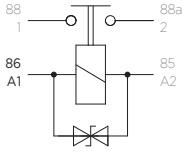
- Sealed housing conforms to IP6K9K
- Robust design
- Minimized coil current
- Variety of configuration options
- 6G shock and 4G vibration resistant
- Main contact current rated for continuous current and 100% duty cycle
- Efficient coil and magnetic circuit design with switching properties and holding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

Applications

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

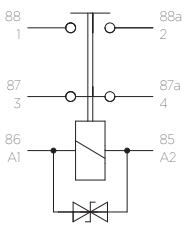
Circuits

NO-Contact



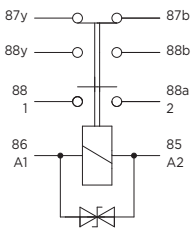
Suppression diode

NO/NC-Contact



Suppression diode

NO-Contact/Auxiliary-Contact



Suppression diode

Specification

Technical Data

Temperature range	-40°C to +85°C
Protection	IEC 60529 & DIN 40050-9 - IP67 (0,2bar, 1min) and IP6K9K
Shock	6g / 11msec
Vibration	4g / 50-2000Hz
Thread sizes / Torque	M3.5 = 1.1 - 1.2Nm | M4 = 2.0 - 2.2Nm | M8 = 12 - 13Nm

Electrical Characteristics

Min. Insulation resistance	100MΩ
After live or environment	50MΩ
Dielectric withstanding voltage	1050VAC / 1min at 50Hz
Max. Contact drop, initial	150mV
Contact drop after life test	175mV
Continuous current	120A
Overload	1000A - 1sec / 250A - 20sec

Rated contact	12 / 24 / 28 / 36VDC	48VDC	80VDC
Resistive load	120A	120A	80A
Cycles	200.000	100.000	100.000
Mechanical life	2.000.000 cycles	2.000.000 cycles	2.000.000 cycles

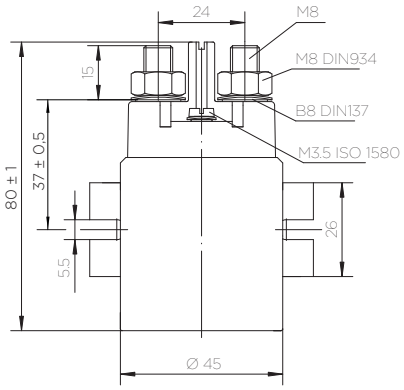
Coil Data	12VDC	24 / 28VDC	36VDC	48VDC
Voltage range	9-16VDC	18-32VDC	27-48VDC	36-54VDC
Nominal voltage	12VDC	28VDC	36VDC	48VDC
Pick up voltage max.	9VDC	18VDC	27VDC	36VDC
Drop out voltage min.	≤ 2VDC	≤ 4VDC	≤ 5VDC	≤ 8VDC
Coil resistance	20Ω ± 10%	80Ω ± 10%	155Ω ± 10%	245Ω ± 10%
Coil current approx.	0.6A	0.35A	0.25A	0.2A
Coil power approx.	7W	10W	10W	9.5W

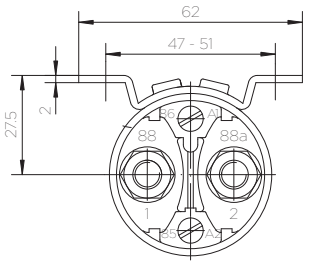
Operating times NO-Contact relay

Operate	max. 35msec
Bounce	max. 5msec
Release	max. 15msec
Wire Section	min. 25mm² / 0.039 sq.inch / AWG 3
Mounting position	optional

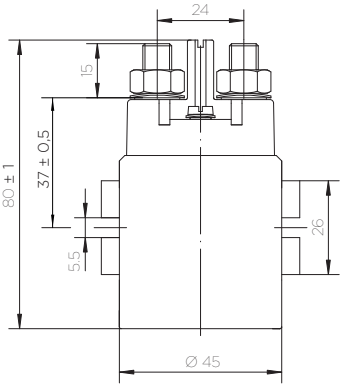
Technical drawings

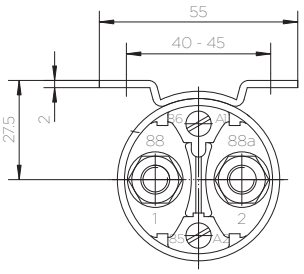
Standard side mounting



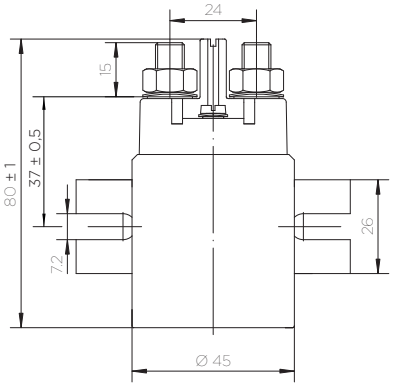


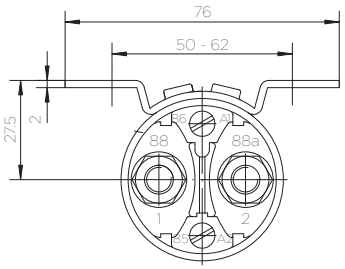
Short form side mounting



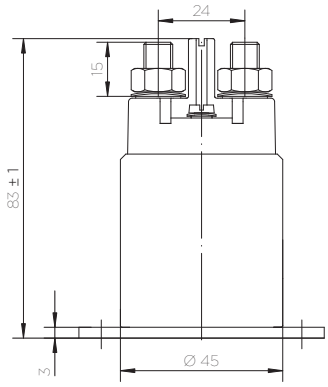


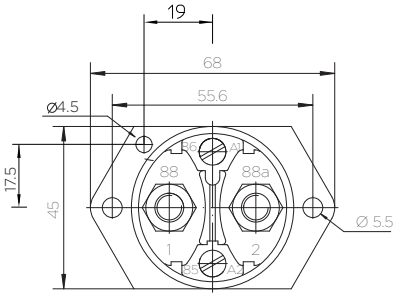
Long form side mounting



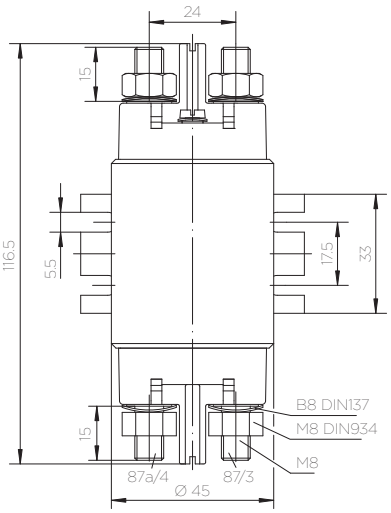


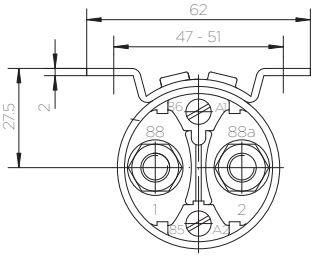
Bottom mounting





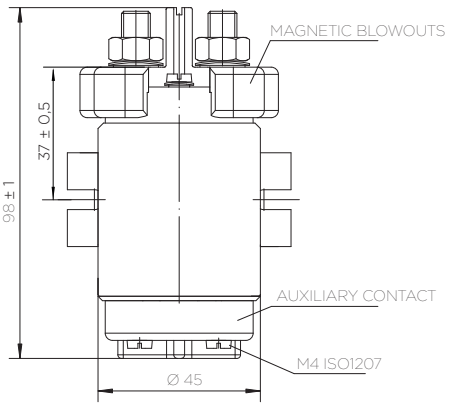
Change-over NO/NC

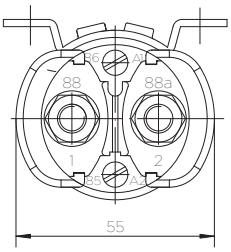




Options:

Auxiliary contacts, magnetic blowouts





Ordering Information

Part Number
example: 29.111.02
29.1__.___

Current

1	Current 120A

Contacts

1	Make Contact NO
2	Change over NO/NC*

* Only mounting type - 1 "Standard side mounting"

Mounting

1	Standard side mounting
2	Short form side
3	Bottom mounting
4	Long form side

Options

A	Auxiliary contacts*
B	Magnetic blowout (required over 40VDC)

* Not possible for bottom mounting and NO/NC relay

Coil voltage

1	12V
2	24 / 28V
3	36V
4	48V

Suppression

0	Without suppression
1	With suppression

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