



Features

- Sealed housing conforms to IP6K9K
- Robust design
- Variety of configuration options
- 6G shock and 4G vibration resistant
- Main contact current rated for continuous current and 100% duty cycle

Applications

- Commercial vehicles
- Bus
- Lift truck
- · Ground support equipment
- · Construction and agricultural vehicles

KISSLING SINGLE POLE BI-STABLE RELAYS

Series 30 / 500A - from TE Connectivity (TE)

The series 30 bi-stable relay meets even the most difficult operating requirements and is suited for various applications in severe conditions on commercial vehicles, buses, construction & agricultural vehicles, ground support equipment and fork lifts.

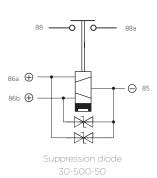
These relays are available with a wide variety of configuration options including different contact configurations and coil voltages to have the right product for your needs.

Other important advantages are low heat generation in the contact area based on low contact voltage drop, a compact design, 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. Furthermore, our relays are characterized by high shock and vibration characteristics and a low voltage drop.

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

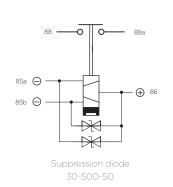
Circuits

NO-Contact Standard type common -



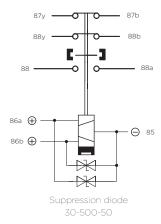
NO-Contact

Special type reversed polarity common +



NO-Contact

Auxiliary contact / Magnetic blowout



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	M4 = 2.0 - 2.2Nm M12 = 18 - 22Nm	

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	500A
Overload	4000A - 1sec / 1800A - 20sec

Rated contact load	12 and 24/28VDC
Resistive load	50.000 cycles 200A
Mechanical life	100.000 cycles

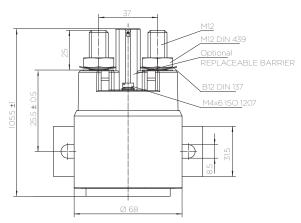
12VDC	24/28VDC
9-16VDC	18-32VDC
12VDC	28VDC
≥9VDC	≥ 13VDC
≥7VDC	≥10VDC
O.6Ω ± 20%	2.7Ω ± 20%
20A	10A
0.85Ω ± 20%	3.8Ω ± 20%
14A	7.3A
50ms	50ms
50ms	50ms
	9-16VDC 12VDC ≥ 9VDC ≥ 7VDC 0.6 Ω ± 20% 20A 0.85 Ω ± 20% 14A 50ms

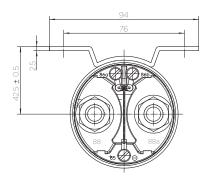
Operating times NO-Contact relay

Operate	max. 25msec
Bounce	max. 5msec
Release	max. 10msec
Wire Section	min. 240mm² / 0.372 sq.inch / MCM500
Mounting position	optional

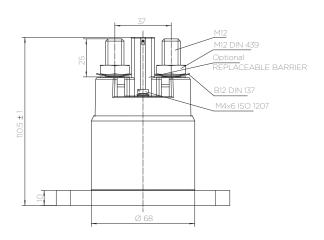
Technical drawings

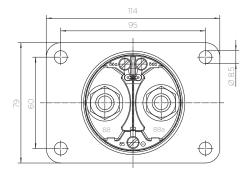
Standard side mounting



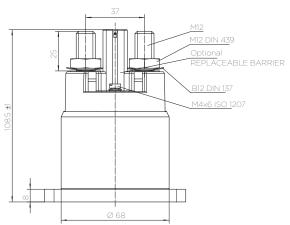


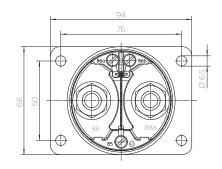
Bottom mounting tall





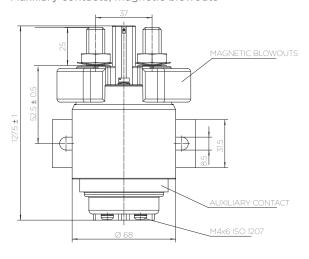
Bottom mounting

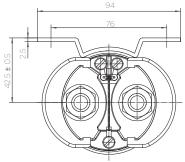




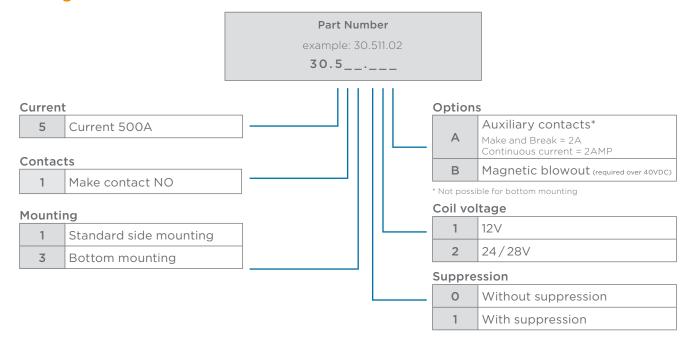
Options:

Auxiliary contacts, magnetic blowouts





Ordering Information



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