

- n Limiting continuous current 130A at 85°C
- n Current switching ability up to 300A
- n Suitable for voltage levels up to 24VDC
- n Heat, moisture and vibration resistant
- n Minimal contact resistance
- n Dustproof and sealed versions

Typical applications

Engine control, glow plug, heated front screen, preheating systems (e.g. for diesel engines, catalytic converters), switches for loading ramps, start/stop.



Contact Data

Contact arrangement	1 form A, 1 NO 1 form B, 1 NC 1 form C, 1 CO 1 form X, 1 NO DM
Rated voltage	12VDC/24VDC
Max. switching voltage	depends on load parameters ^{A)}
Rated current, cable 25mm ²	130A at 85°C
Limiting continuous current	
23°C, load cable 16mm ²	130A
85°C, load cable 16mm ²	120A
125°C, load cable 16mm ²	60A
23°C, load cable 25mm ²	180A
85°C, load cable 25mm ²	130A
125°C, load cable 25mm ²	70A
Limiting making current, load current max. 3s on, make/break ratio 1:10	300A
Limiting breaking current	300A
Contact material	AgSnO ₂
Min. recommended contact load ⁴⁾	1A at 5VDC
Initial voltage drop, typ. at 100A	70mV
Frequency of operation, with/without load	6 ops./min
Operate/release time typ. at nominal voltage	25/8ms
Electrical endurance	
form A contact (NO), resistive load, cyclic temperature: +23°C	>5x10 ⁴ cycles at 300A, 13.5VDC
Mechanical endurance	>10 ⁷ ops.

A) Please contact TE relay application engineer.

Coil Data

Rated coil voltage	12/24VDC
Rated coil power	3.3W ¹⁾
Max. coil temperature	155°C

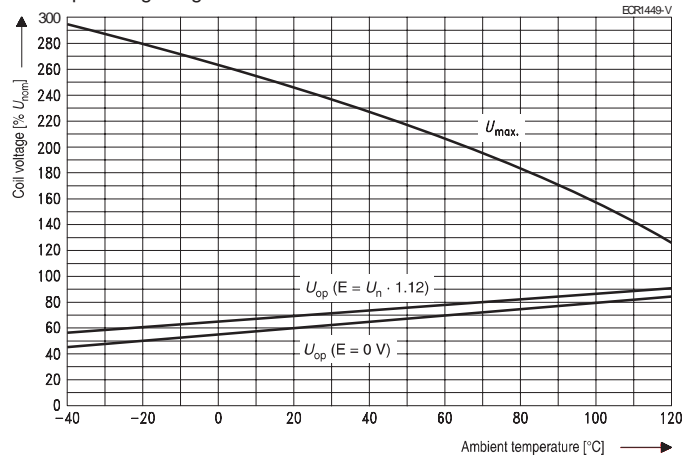
Coil versions, DC coil¹⁾

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated power W
001 1	27	21	23	73	0.9
002	24	14.4	2.4	141	4.1

1) With resistor.

All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil operating range



Insulation Data

Initial dielectric strength between contact and coil	1000VAC _{rms}
Load dump test	
ISO 7637-1 (12VDC), test pulse 5	Vs=+86.5VDC
ISO 7637-2 (24VDC), test pulse 5	Vs=+200VDC

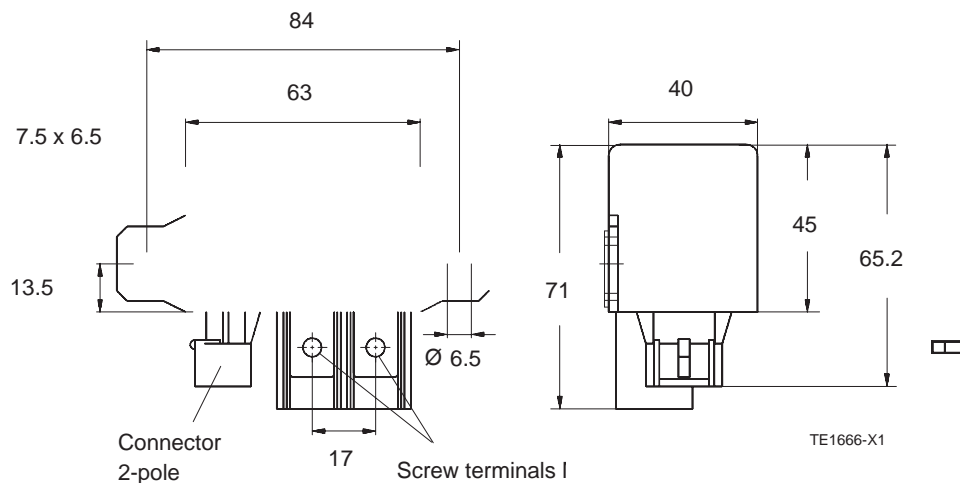
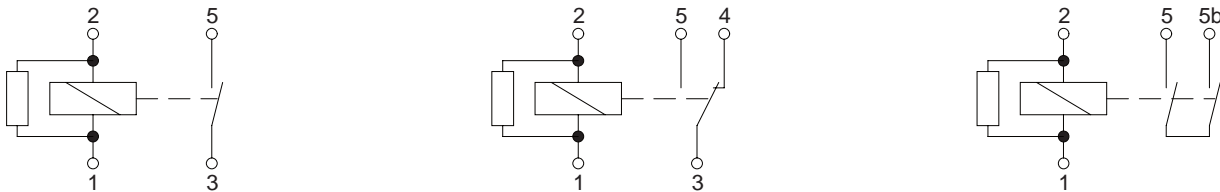
Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40°C to +125°C
Dry heat, IEC 60068-2-2	500h at 100°C
Damp heat constant, IEC 60068-2-3 (78), Ca	500h, 40°C, 93% RH
Degree of protection	
dustproof:	IP54 (IEC 60529), RT I (IEC 61810)
sealed:	sealing in accordance with IEC 68
immersion cleanable:	IP67 (IEC 60529), RT III (IEC 61810)
Corrosive gas	
IEC 60068-2-42	10 days
IEC 60068-2-43	10 days
Vibration resistance (functional) IEC 60068-2-6 (sine sweep)	10 to 200Hz >5g ²
Shock resistance (functional) IEC 60068-2-27 (half sine)	6ms >20g ²
Drop test, free fall IEC 60068-2-32	1m onto concrete

Other Data (continued)	
Terminal type	screw
Cover retention	
pull force	500N
push force	500N
Terminal retention	
pull force	150N
push force	150N
resistance to bending	20N
force applied to side	20N
torque	5Nm
Weight	approx. 220g (7.8oz)
Packaging unit	50 pcs.

2) No change in the switching state >10µs.

Terminal Assignment

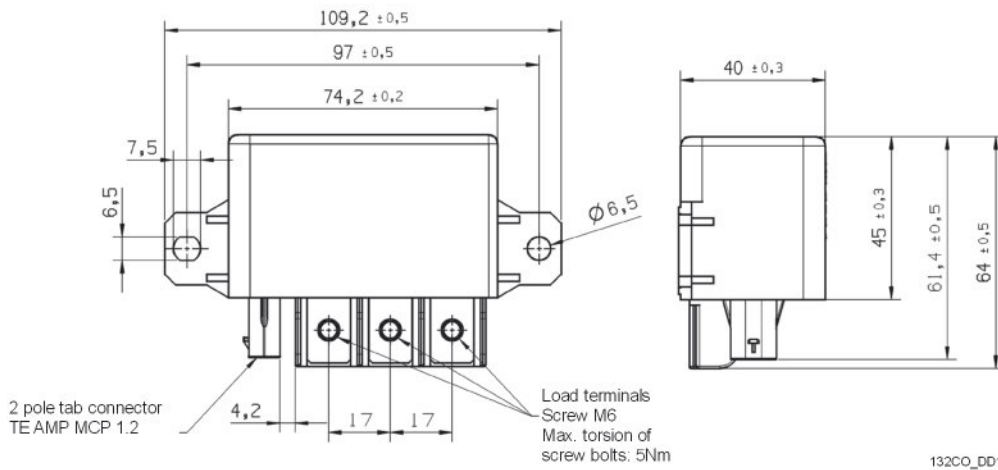
NOR
1 form A, 1 NO with resistor



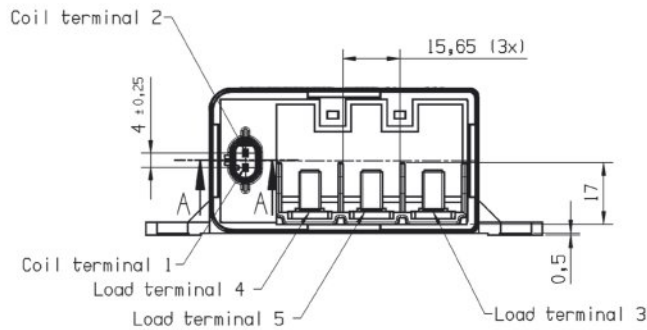
High Current Relay S-REHC-xx-xxVx

(Continued)

Dimensions
CO version



View of the terminals



Product code structure

Typical product code **S-REHC -NO -12V S**

Type	S-REHC Relay High Current		
Contact arrangement	NO 1 form A, 1 NO CO 1 form C, 1 CO	Contact material: AgSnO2	
Coil	12V coil 12VDC 24V coil 24VDC		
Protection class	N IP54	S IP67	

Product code	Arrangement	Coil	Circuit	Coil suppr.	Protect.	Contact mat.	Terminals	Part number
S-REHC-NO-12VN	1 form 1, 1 NO	12VDC	NOR	Resistor	IP54	AgSnO2	Screw	
S-REHC-NO-12VS	1 form 1, 1 NO	12VDC	NOR	Resistor	IP67	AgSnO2	Screw	
S-REHC-NO-24VN	1 form 1, 1 NO	24VDC	NOR	Resistor	IP54	AgSnO2	Screw	
S-REHC-NO-24VS	1 form 1, 1 NO	24VDC	NOR	Resistor	IP67	AgSnO2	Screw	
S-REHC-CO-12VN	1 form C, 1 CO	12VDC	COR		IP54	AgSnO2	Screw	
S-REHC-CO-24VN	1 form C, 1 CO	24VDC	COR		IP54	AgSnO2	Screw	