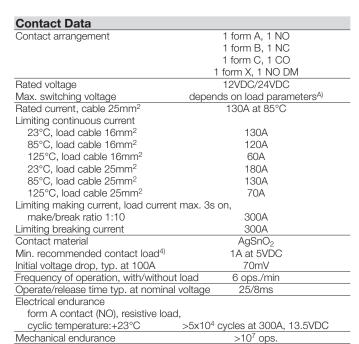


## **High Current Relay 150**

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







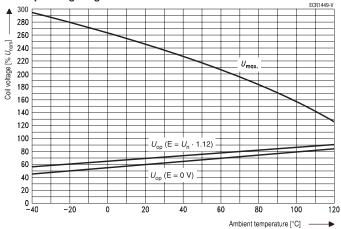
Coil Data	
Rated coil voltage	12/24VDC
Rated coil power	3.3W <sup>1)</sup>
Max. coil temperature	155°C

Coil	versions	DC	coil1)
Con	versions.	DC	comy

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	W
001	12	7.2	1.2	37	3.9
002	24	14.4	2.4	141	4.1

<sup>1)</sup> With resistor

### Coil operating range



Does not take into account the temperature rise due to the contact current  $\mathsf{E} = \mathsf{pre}\text{-}\mathsf{energization}$ 

Insulation Data		
Initial dielectric strength		
between contact and coil	1000VAC <sub>rms</sub>	
Load dump test		
ISO 7637-1 (12VDC), test pulse 5	Vs=+86.5VDC	
ISO 7637-2 (24VDC), test pulse 5	Vs=+200VDC	

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



# High Current Relay 150 (Continued)

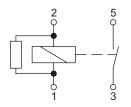
Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40°C to +125°C
Dry heat, IEC 60068-2-2	500h at 100°C
Damp heat constant,	
IEC 60068-2-3 (78), Ca	500h, 40°C, 93% RH
Degree of protection	
dustproof:	IP54 (IEC 60529), RT I (IEC 61810)
sealed:	sealing in accordance with IEC 68
immersion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

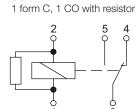
Other Data (continued)	
Terminal type	screw
Cover retention	
pull force	500N
push force	500N
Terminal retention	
pull force	150N
push force	150N
resistance to bending	20N
force applied to side	20N
torque	5Nm
Weight	approx. 220g (7.8oz)
Packaging unit	50 pcs.

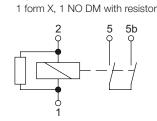
<sup>2)</sup> No change in the switching state >10µs.

#### **Terminal Assignment**

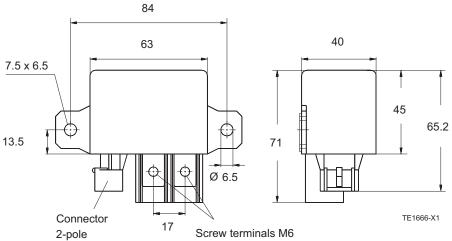
1 form A, 1 NO with resistor

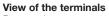






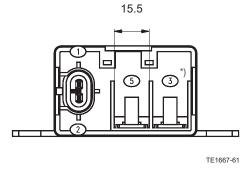
**Dimensions** NO and NO DM version





**NOBRR** 

Bottom view



\*) Alternatively 5b for form X, 1 NO DM with resistor.

Connector Information AMP SUPERSEAL 1.5 SERIES Coil side

- Receptacle connector 282080-1 Single wire seal 281934-2
- Contact 282110-1

Load side

Cable lug M6, maximum cable section 25 mm²