

High Current Relay 75

- Limiting continuous current 75A at 23°C
- Current switching ability up to 150A
- Suitable for voltage levels up to 24VDC
- **■** Minimal contact resistance
- **■** Dustproof versions

Typical applications

Engine control, glow plug, heated front- and rear - screen, preheating systems (e.g. for diesel engines, catalytic converters), switches for loading ramps, power distribution (clamp15)

Contact Data	Form A bifurcate	d Form A		
Contact arrangement	1 form A,	1 form A,		
	1 NO (bifurcated)	1 NO		
Rated voltage	12VDC	24VDC		
Max. switching voltage	depends on loa	ad parameter ^{A)}		
Rated current	50A at 12VDC	30A at 24VDC		
Limiting continuous current				
23°C	75A	50A		
85°C	50A	30A		
105°C	20A	8A		
Jump start test, ISO 16750-1	24VDC for 5 min,			
	conducting nominal current at 23			
Contact material	silver based			
Contact style				
NO bifurcated:	double make con	tact bifurcated		
NO:	single c	ontact		
Min. recommended contact load	1A at 5VDC			
Initial voltage drop, typ. at 100A	<100mV			
Operate/release time typ. at nom	inal voltage 7/2r	ms		
Electrical endurance				
form A contact (NO), resistive	load >1x10 ⁵ ops.	$>5x10^4$ ops.		
	75A, 13.5VDC	50A, 27VDC		
Mechanical endurance	>1x10	⁶ ops.		
A) Please contact TE relay application e	ngineer.			
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Coil Data	Form A bifurcate	ed Form A			
Rated coil voltage	12/2	12/24VDC			
Rated coil power	3.1W	4.4W			
Max coil temperature	15	5°C			

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	code voltage voltage v		voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	W
0001	12	8.8	1.5	46	3.1
0002	24	19.0	1.0	130	4.4

All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation Data		
Initial dielectric strength		
between contact and coil	500VAC _{rms}	
Load dump test		
ISO 7637-1 (12VDC), test pulse 5	Vs=+86.5VDC	
ISO 7637-2 (24VDC), test pulse 5	Vs=+200VDC	



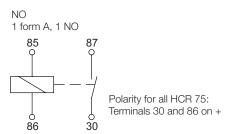
-40°C to +125°C
6 cycles, storage 8/16h
6 cycles, upper air temp. 55°C
3, Ca 56 days
IP54 (IEC 60529), RT I (IEC 61810)
sealing in accordance with IEC 68
IP67 (IEC 60529), RT III (IEC 61810)
10 days, 10 +/- 2cm ³ /m ³ SO ₂
10 days, 1 +/- 0.3cm ³ /m ³ H ₂ S
10-500Hz, > 5g ¹⁾
11 ms >20g ¹⁾
200N
200N
100N
100N
0.3Nm
38g (1.3oz)
50 pcs.

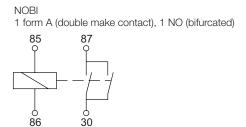
¹⁾ No change in the switching state $>10\mu s$.



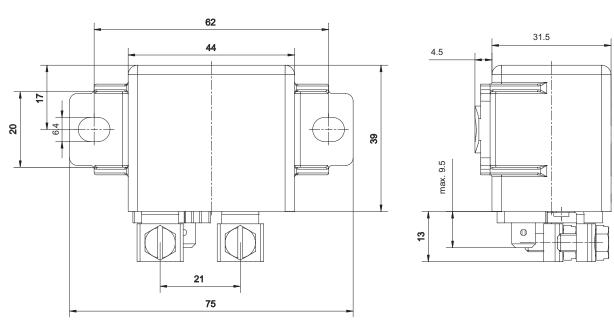
High Current Relay 75 (Continued)

Terminal Assignment



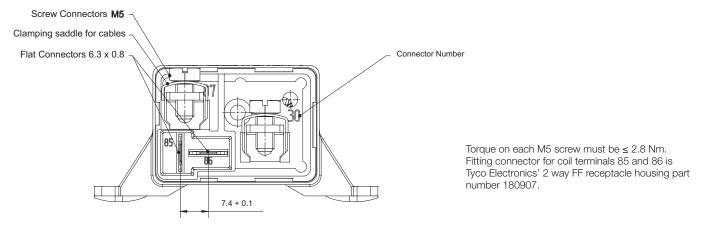


Dimensions



View of the terminals

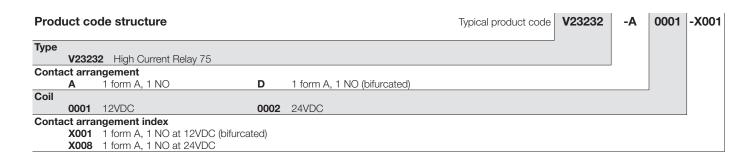
Bottom view





Automotive Relays High Current Devices

High Current Relay 75 (Continued)



Product code	Arrangement	Coil	Circuit	Coil suppr.	Protection (Cont. material	Terminals	Part number
V23232-D0001-X001	1 form A, 1 NO (bif.)	12VDC	NOBI		IP54	Silver based	Screw	1904000-1
V23232-A0002-X008	1 form A, 1 NO	24VDC	NO					1904001-4

This list represents the most common types and does not show all variants covered by this datasheet. Other types on request.

the 'Definitions' section, available at

http://relays.te.com/definitions