

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 bifurcated	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 load	d 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 b	ased		
Contact style				
NO bifurcated:	double make cont	act bifurcated		
NO:	single co	ontact		
Min. recommended contact load	1A at 5	VDC		
Initial voltage drop, typ. at 100A	<50mV	<100mV		
Operate/release time typ. at nom	inal voltage 7/2n	าร		
Electrical endurance				
form A contact (NO), resistive I	oad $>1x10^5$ ops.	$>5x10^4$ ops.		
	75A, 13.5VDC	50A, 27VDC		
Mechanical endurance	>1x10 ⁶	ops.		
A) Please contact TE relay application el	ngineer.			

Coil Data	Form A bifurcated	Form A		
Rated coil voltage	12/24VDC			
Rated coil power	3.1W	4.4W		
Max. coil temperature	155°()		

Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	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	



Other Data	
Ambient temperature	-40°C to +125°C
Climatic cycling with condensation,	
EN ISO 6988	6 cycles, storage 8/16h
Damp heat cyclic,	
IEC 60068-2-30, Db, Variant 1	6 cycles, upper air temp. 55°C
Damp heat constant, IEC 60068-2-3	, Ca 56 days
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, 10 +/- 2cm ³ /m ³ SO ₂
IEC 60068-2-43	10 days, 1 +/- 0.3cm ³ /m ³ H ₂ S
Vibration resistance (functional)	
IEC 60068-2-6 (sine sweep)	10-500Hz, > 5g ¹⁾
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	11 ms >20g ¹⁾
Cover retention	
pull force	200N
push force	200N
Terminal retention	
pull force	100N
push force	100N
torque	0.3Nm
Weight	38g (1.3oz)
Packaging unit	50 pcs.
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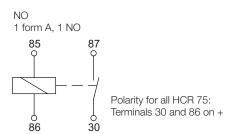
¹⁾ No change in the switching state $>10\,\mu s$.

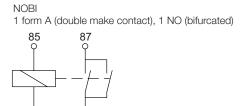


High Current Relay 75 (Continued)

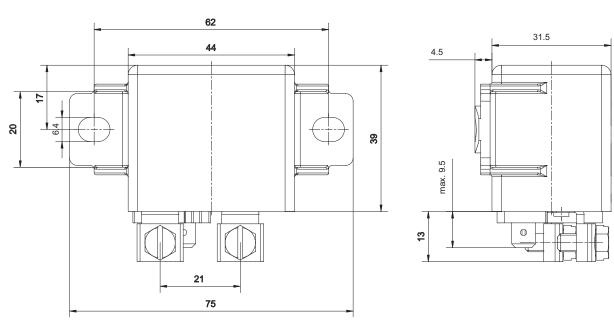
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Terminal Assignment



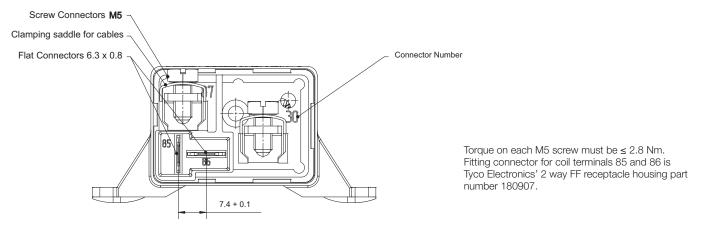


Dimensions



View of the terminals

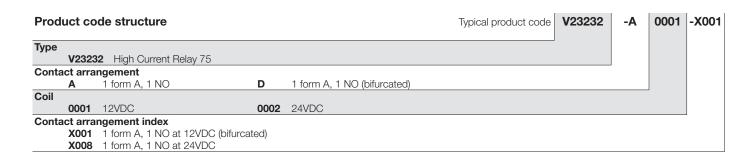
Bottom view





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.

Datasheets and product data is subject to the

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

http://relays.te.com/definitions