

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)

<u>orm A bifurcate</u>	d Form A			
1 form A,	1 form A,			
1 NO (bifurcated)	1 NO			
12VDC	24VDC			
depends on loa	nd parameter ^{A)}			
50A at 12VDC	30A at 24VDC			
75A	50A			
50A	30A			
20A	8A			
24VDC for 5 min,				
conducting nominal cu				
silver based				
double make con	uble make contact bifurcated			
single c	ontact			
d 1Å at 5VDC				
<50mV	<100mV			
al voltage 7/2r	ns			
nd >1x10 ⁵ ops.	>5x10 ⁴ ops.			
75A, 13.5VDC	50A, 27VDC			
>1x10				
	1 NO (bifurcated) 12VDC depends on loa 50A at 12VDC 75A 50A 20A 24VDC f conducting nomina silver b double make con single c 1A at 8 <50mV al voltage 7/2t dd >1x10 ⁵ ops.			

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

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
AH.C					

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	



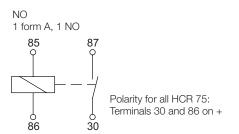
Other Data	
Ambient temperature	-40°C to +125°C
Climatic cycling with condensation,	
EN ISO 6988	6 cycles, storage 8/16h
Damp heat cyclic,	
IEC 60068-2-30, Db, Variant 1	6 cycles, upper air temp. 55°C
Damp heat constant, IEC 60068-2-3	, Ca 56 days
Degree of protection	
dustproof:	IP54 (IEC 60529), RT 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)	$10-500$ Hz, $> 5g^{1)}$
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.

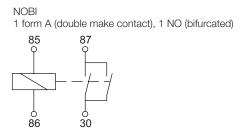
1) No change in the switching state $>10\mu s$.



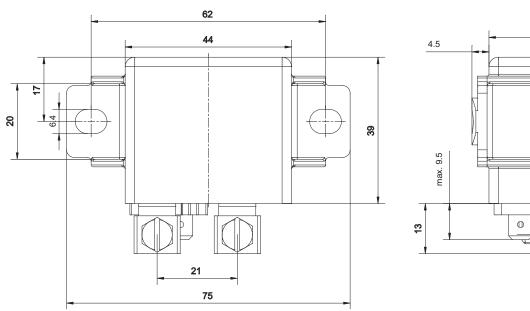
High Current Relay 75 (Continued)

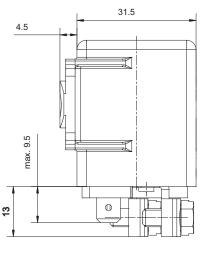
Terminal Assignment





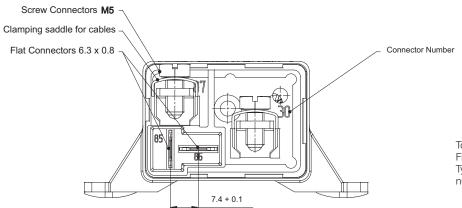
Dimensions





View of the terminals

Bottom view

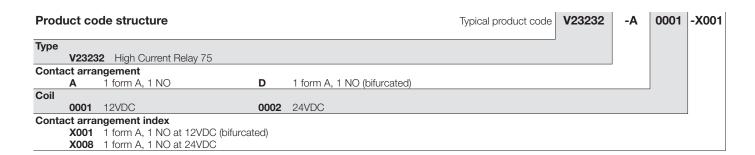


Torque on each M5 screw must be ≤ 2.8 Nm. Fitting connector for coil terminals 85 and 86 is
Tyco Electronics' 2 way FF receptacle housing part number 180907.



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.

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