

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 F	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	nd 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 f	or 5 min,
	conducting nomina	al current at 23°C
Contact material	silver b	pased
Contact style		
NO bifurcated:	double make con	tact bifurcated
NO:	single c	ontact
Min. recommended contact load	1A at 5	5VDC
Initial voltage drop, typ. at 100A	<50mV	<100mV
Operate/release time typ. at nomin	nal voltage 7/2r	ms
Electrical endurance		
form A contact (NO), resistive lo	ad >1x10 ⁵ ops.	>5x10 ⁴ ops.
	75A, 13.5VDC	50A, 27VDC
Mechanical endurance	>1x10	6ons
iviechanical endurance	>1X1U	-υμδ.

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	e voltage voltage		voltage	resistance	nce 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	
	V3-T200VDO	



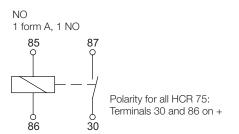
Other Data	
Ambient temperature	-40°C to +125°C
Climatic cycling with condensation,	
EN ISO 6988	6 cycles, storage 8/16h
Damp heat cyclic,	
IEC 60068-2-30, Db, Variant 1	6 cycles, upper air temp. 55°C
Damp heat constant, IEC 60068-2-3	, Ca 56 days
Degree of protection	
dustproof:	IP54 (IEC 60529), RT 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.
4) 11	

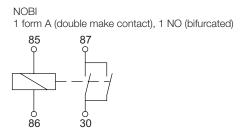
1) No change in the switching state $>10\mu s$.



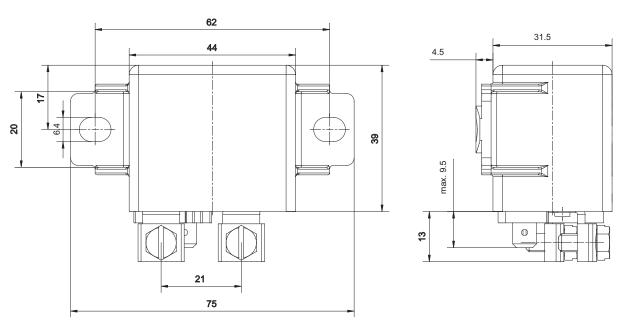
High Current Relay 75 (Continued)

Terminal Assignment



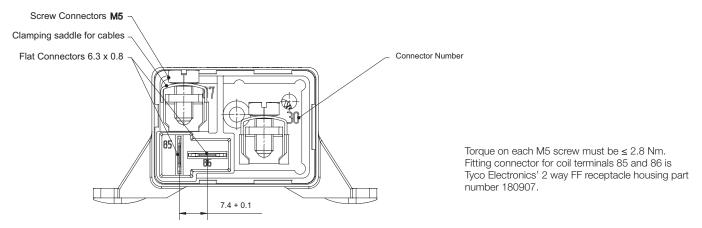


Dimensions



View of the terminals

Bottom view





Automotive Relays High Current Devices

High Current Relay 75 (Continued)

Prod	uct co	de structure			Typical product code	V23232	-A	0001	-X001
Туре	Vocas	32 High Current Relay 75							
Comto									
Conta	ict arra	ngement							
	Α	1 form A, 1 NO	D	1 form A, 1 NO (bifurcated)					
Coil									
	0001	12VDC	0002	24VDC					
Conta	ct arra	ngement index							
	X001	1 form A, 1 NO at 12VDC (bifurca	ated)						
	X008	1 form A, 1 NO at 24VDC	*						

Product co	ode	Arrangement	Coil	Circuit	Coil suppr.	Protection (Cont. material	Terminals	Part number
V23232-D000	01-X001	1 form A, 1 NO (bif.)	12VDC	NOBI		IP54	Silver based	Screw	1904000-1
V23232-A000	02-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.