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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	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 fo	24VDC for 5 min,			
	conducting nomina	al current at 23°C			
Contact material	silver b	ased			
Contact style					
NO bifurcated:	double make cont	tact bifurcated			
NO:	single co	ontact			
Min. recommended contact load	1A at 5	SVDC			
Initial voltage drop, typ. at 100A	<50mV	<100mV			
Operate/release time typ. at nomin	nal voltage 7/2r	ns			
Electrical endurance					
form A contact (NO), resistive lo	bad >1x10 ⁵ ops.	>5x10 ⁴ ops.			
	75A, 13.5VDC	50A, 27VDC			
Mechanical endurance	>1x10 ⁶	³ ops.			
A) Please contact TE relay application en	gineer.				

Coil Data	Form A bifurcated	Form A
Rated coil voltage	12/24V[DC
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

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

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 $>10\mu s$.

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. 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

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



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.

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High Current Relay 75 (Continued)

Product c	ode structure		Тур	pical product code	V23232	-A	0001	-X001
Туре								
V232	32 High Current Relay 75							
Contact arr	angement							
Α	1 form A, 1 NO	D	1 form A, 1 NO (bifurcated)					
Coil								
0001	12VDC	0002	24VDC					
Contact arr	angement index							
X001	1 form A, 1 NO at 12VDC (bifurca	ted)						
X008	1 form A, 1 NO at 24VDC							

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.								

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

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