

High Current Relay 200

- Normally closed contact
- Limiting continuous current 175A at 85°C

Typical applications Energy management, battery coupling, start/stop.



F230_fcw5b

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Contact Data	
Contact arrangement	1 form B, 1 NC
Rated voltage	12VDC
Max. switching voltage	depends on load parameter set A)
Rated current, cable 50mm ²	175A at 85°C
Limiting continuous current	
23°C, load cable 35mm ²	245A
85°C, load cable 35mm ²	165A
110°C, load cable 35mm ²	120A
23°C, load cable 50mm ²	255A
85°C, load cable 50mm ²	175A
110°C, load cable 50mm ²	130A
Limiting making current	200A at <5VDC
Limiting breaking current	200A at <5VDC
Limiting short-time current	depends on load parameter set A)
Contact material	AgSnO ₂
Contact style	single contact
Min. recommended contact load	1A at 5V
Initial voltage drop	100mV at 100A
Operate/release time typ. at nominal	voltage 25/6ms ¹⁾
Bounce time max.	2)
Electrical endurance	
50A (on), 30A (cont.), 50A (off):	48000 cycles
80A (on), 30A (cont.), 120A (off):	1000 cycles
200A (on), 120A (cont.), 120A (off)	: 1000 cycles
repeated until 800000 cycles are r	eached ³⁾
Mechanical endurance	>10 ⁷ ops.
1) Mith diada in parallal	·

- 1) With diode in parallel.
- Release and bounce time depend on component in parallel to the coil, please contact application engineering support.
 Validated with a load voltage of 5VDC.
- A) Please contact TE relay application engineering.

Coil Data	
Rated coil voltage	12VDC
Max. coil power	3.3W ¹⁾
Max. coil temperature	155°C

1) With diode in parallel.

Coil vers	sions, DC co	il				
Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC	VDC	Ω±10%	W	
1001	12	7.2	1.2	37	3.9	
2001	12	7.2	1.2	43	3.3	

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

Insulation Data				
Initial dielectric strength				
between open contacts	500VDC			
between contact and coil	500VDC			
Load dump test				
ISO 7637-1 (12VDC), test pulse 5	no switching allowed during load dump			
ISO 7637-2 (24VDC), test pulse 5	no switching allowed during load dump			

Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40°C to +110°C
Climatic cycling with condensation,	
EN ISO 6988	240h (-10 to +65°C), 93% RH
Temperature cycling (shock),	
IEC 60068-2-14, Na	600h (-40 to +110°C), <30s
Degree of protection	
splash water proof:	IP64 (IEC 60529), RT III (IEC 61810)
Corrosive gas	5 ±1%NaCl, 96h, 35°C
Vibration resistance (functional),	
IEC 60068-2-64 (random)	10 to 2000Hz, min. 5g effective
Shock resistance (functional),	
IEC 60068-2-27 (half sine)	11ms min. 30g
Drop test, free fall	1m onto concrete
Terminal type	connector, screw
Weight	approx. 230g (8.1oz)
Packaging unit	on request

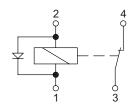


High Current Relay 200 (Continued)

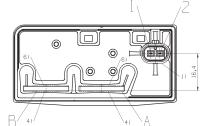
Terminal Assignment

NCD

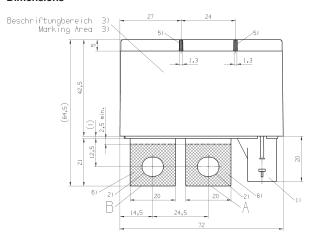
1 form B, NC with diode

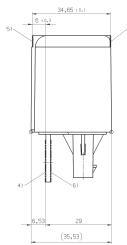


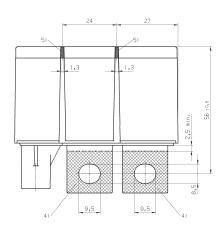
View of the terminals (bottom view)



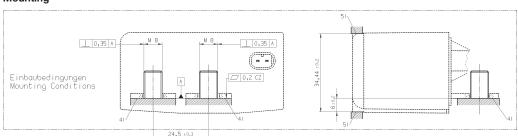
Dimensions







Mounting





Product code	Arrangement	Coil suppr.	Circuit ¹⁾	Coil	Enclosure (Cont. material	I Terminals	Part number
V23230-D2001-B200	1 form B, 1 NC	Diode	NCD	12VDC	IP64	AgSnO ₂	Screw	1-1414995-0
V23230-D1001-B200		Resistor						tbd