

High Current Relay 200

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

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



F230_fcw5b

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 25/35ms 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 reached ³⁾				
Mechanical endurance	>10 ⁷ ops.			

- 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	versions, DC coil	
Coil	Rated	

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 nulse 5	no switching allowed during load dump

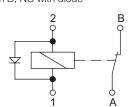
Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature	-40°C to +110°C
Climatic cycling with condensation,	
IEC 60068-2-38	240h (-10 to +65°C), 93% RH
Temperature cycling (shock),	
IEC 60068-2-14, Na	100 cycles (-40 to +110°C),
	dwell time 50min, transfer time <30s
Degree of protection	
splash 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



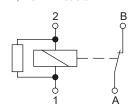
High Current Relay 200 (Continued)

Terminal Assignment

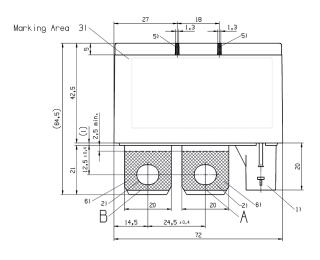
NCD 1 form B, NC with diode

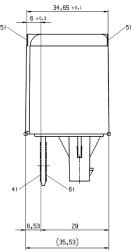


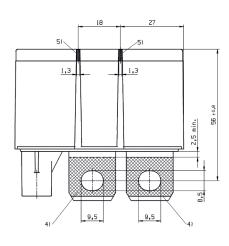
NCR 1 form B, NC with resistor



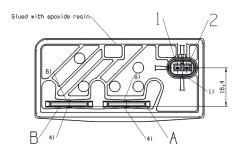
Dimensions







View of the terminals (bottom view)



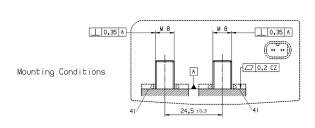
- Connector AMP MCPI.2, 2pos. keying B, appropriate for TE part no. 2-1670916-1 Permitted torque: 16.5 Nm max.
- Labelling with following information:

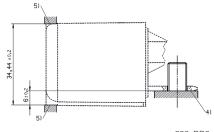
 TE logo and part number

 - Nominal voltage
 - Date code (Day-Month-Year)
- Circuit diagram
- 4) Seating area on leadframe
- Seating area in fusebox
- Contact area for cable lugs. Recommended cable lug: 50mm²

Tolerances unless otherwise specified: ISO 8015, ISO 2768-vL

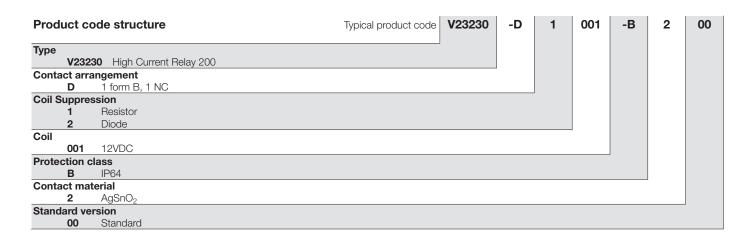
Mounting







High Current Relay 200 (Continued)



Product code	Arrangement	Coil suppr.	Circuit ¹⁾	Coil	Enclosure	Cont material	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	NCR					5-1415009-7

¹⁾ See Terminal assignment diagrams.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Automotive Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

7-1414968-8 7-1617345-6 9-1617516-5 G5CE1ASIDC12 1393204-2 1393302-3 13Z99A115-0074 1432872-1 AR4-15F11-S01 AR4-15H11
1617057-2 1617058-6 1617518-5 2-1617057-2 2-1617057-6 2-1617058-3 CB1F-M-12V-H15 898H-1AH-D-001-12VDC AR4-11F11
AR4-15F11 AR4-41F11 24198-1 4-1617057-0 41FZ-200ACG-BSL 5-1616920-2 5-1617052-9 5407-0011-HS CB1AF-M-12V-H59 51617346-8 103-1AH-C-12VDC V23134A1052X299 6-1393302-1 897H-1AH-D-R1-U01-12VDC FTR-P3CP024W1-06 1-1617057-8 31393305-1 5436-0001-HS V23086-R1851-A502 V23136-A0004-X075 898H-1AH-D1SW-R1-12VDC RH4C1P2607 RE031005
V23134M0052G242 1393204-1 23234B0001X001-EV-144 AZ979-1A-24D 2-1904020-1 V23134B0052C642 V23134B0053C642 V23234A1001-X036