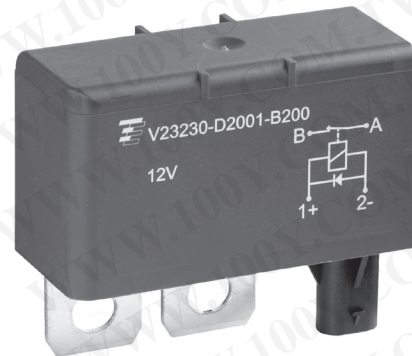


High Current Relay 200

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

Typical applications

Energy management, battery coupling, start/stop.



F230_fw5b

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 reached ³⁾	
Mechanical endurance	>10 ⁷ ops.

1) With diode in parallel.

2) Release and bounce time depend on component in parallel to the coil, please contact application engineering support.

3) 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 code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power 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

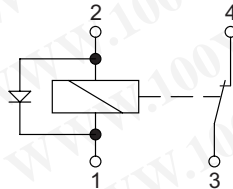
EU RoHS/ELV compliance	compliant
Ambient temperature	-40°C to +110°C
Climatic cycling with condensation, EN ISO 6988	240h (-10 to +65°C), 93% RH
Temperature cycling (shock), IEC 60068-2-14, Na	600h (-40 to +110°C), <30s
Degree of protection	
splash water proof:	IP64 (IEC 60529), RT III (IEC 61810)
Corrosive 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

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

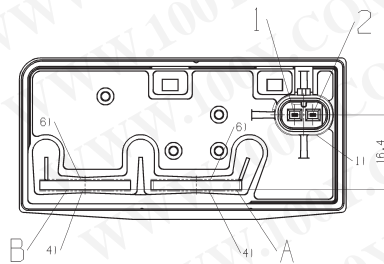
High Current Relay 200 (Continued)

Terminal Assignment

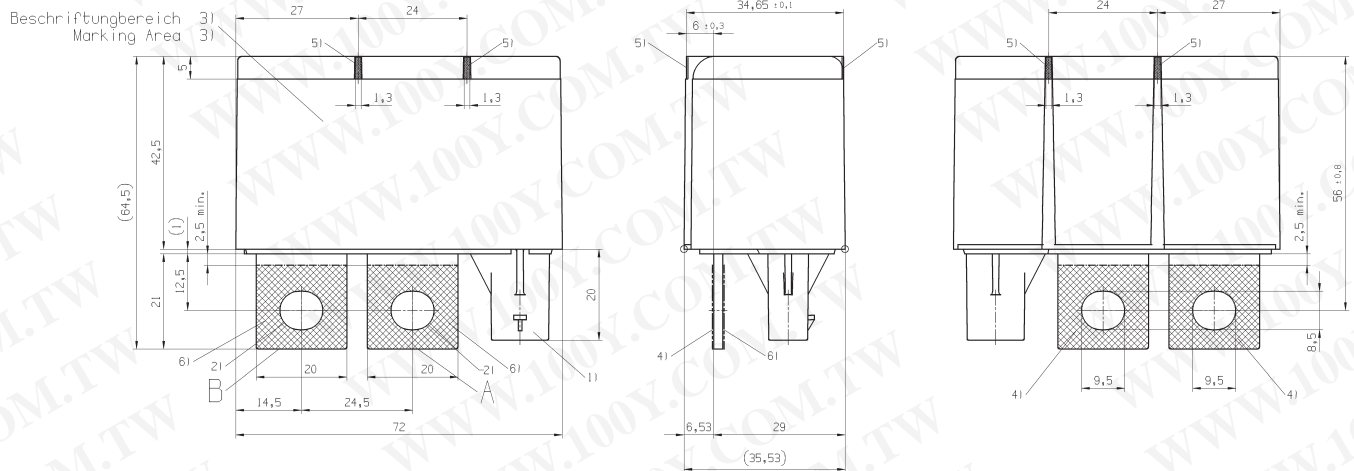
NCD
1 form B, NC with diode



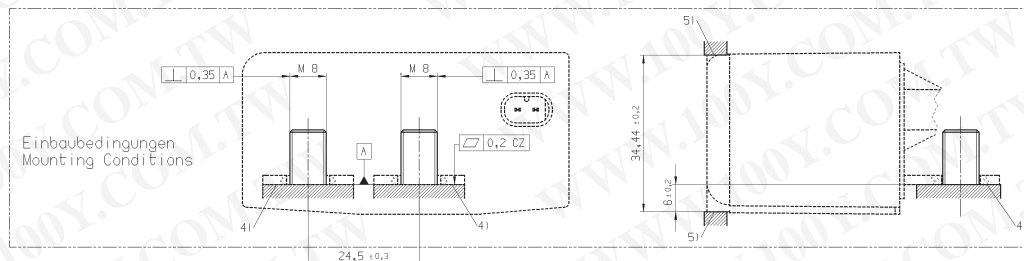
View of the terminals (bottom view)



Dimensions



Mounting



Product code structure

Typical product code **V23230 -D 1 001 -B 2 00**

Type	V23230 High Current Relay 200
Contact arrangement	D 1 form B, 1 NC
Coil Suppression	1 Resistor 2 Diode
Coil	001 12VDC
Protection class	B IP64
Contact material	2 AgSnO ₂
Standard version	00 Standard

Product code	Arrangement	Coil supp.	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						5-1415009-7

1) See Terminal assignment diagrams.