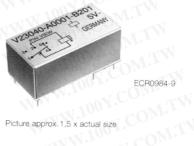
特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

for DC operations, polarised, monostable or bistable

Features

- Permits optimum matching to an extremely wide variety of circuit conditions
- Complies with the requirements of LSI semiconductor technology
- Applications include measuring and control systems, process control engineering, entertainment electronics telecommunication, signalling systems and medical equipment WWW.100Y.COW.T
- Very high level of shock resistance



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ECR0984-9

Typical applications

- Coupling and linking element in electronic modules
- Interface relay element for microcomputer systems
- Storage element for input and output equipment
- Data and communications technology
- Medical equipment
- Measurement and control equipment WWW.100Y.CON

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- Relay types: monostable, 1 winding or bistable. 2 wind: bistable, 1 winding
- Standard- and sensitive versions
- With 1 changeover contact
- With bifurcated contacts
- For printed circuit assembling
- included cover for screening against interference fields; optionally with earth terminal for reducing coupling capacitances WWW.100Y.COM.TW
- Immersion cleanable
- Cleaning agent resistant

W.100Y.COM.TW **Approvals**

(F)

MY.COM.TW USA File LR 45064-2

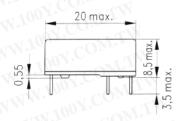
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File E 48393

Without earth terminal

Dimensions (in mm)

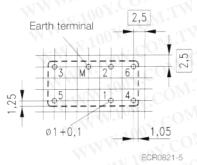




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Mounting hole layout

View onto the terminals

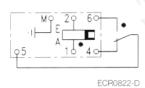


Pin arrangement suits 2,5 mm and 2,54 mm in acc. with DIN EN 60097 and DIN 40803

Base terminals

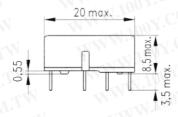
View onto the terminals

Monostable und bistable, 1 winding



M= Earth terminal
Circuit symbols drawn in the release condition
If a positive potential is applied to the start of the winding,
the relay changes to operate position.

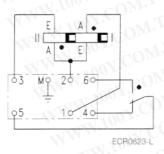
With earth terminal





ECR0820-W

Bistable, 2 windings



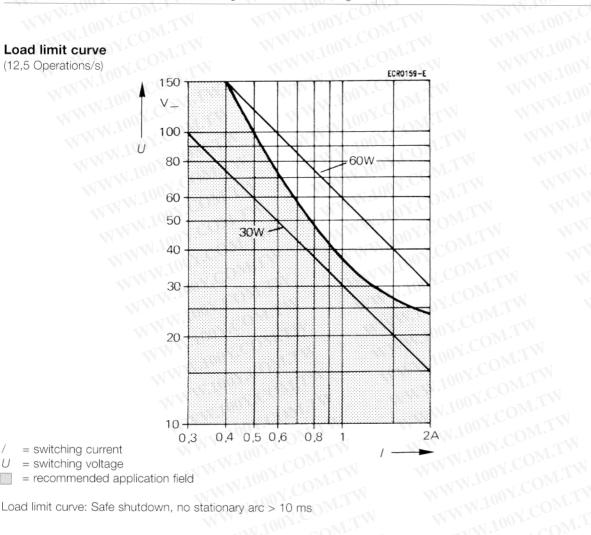
M= Earth terminal

The contact position illustrated shows the release condition. If a negative potential is applied to terminal 1 or a positive potential to terminal 3 as against terminal 2, the relay changes to release condition. If a positive potential is applied to terminal 1 or a negative potential to terminal 3 as against terminal 2, the relay changes to operate condition.

Contact data	MAN. TON. COM. TAN
Number of contacts and type	1 changeover contact
Contacts assembly	Bifurcated contacts
Contact material	Pd Ni, Au Rh coated
Limiting continuous current at max, ambient temperature	2 A.C.
Maximum switching current	2 A COM
Maximum switching voltage	125 V~
	150 V-
Minimum switching voltage	3 mV
Maximum switching capacity	ON WWW. OOK.COM
DC Voltage	3560 W, (see load limit curve)
AC Voltage	60 VA
Contact resistance (initial value) / measuring current / driver voltage	100 mΩ / 10 mA / 20 mV

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= switching current

= switching voltage

= recommended application field

Load limit curve: Safe shutdown, no stationary arc > 10 ms WWW.100Y

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Nominal voltage	From 5 V- to 24 V-
Nominal power consumption	TIMW.Ing COM.
monostable, 1 winding	65130 mW
bistable, 2 windings	80200 mW
bistable, 1 winding	35100 mW
	depending on relay version and winding (see table
Operative range/pick-up class according to DIN IEC 255 Part	1/a OM.
1-00 and VDE 0435 Part 201	THE WAY TOOK SOMETH
Maximum operate voltage	76 % of nominal voltage
Maximum release voltage (bistable)	76 % of nominal voltage
Minimum release voltage (monostable)	10 % of nominal voltage

W.100Y.COM.TW = Minimum voltage at 20 °C after pre-energising
with nominal voltage without contact current

= Maximum U_{II} = Maximum continuous voltage at 20 °C

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The operating voltage limits UI and UII are dependent on the temperature according to the formulae:

 $U_{l tamb} = k_l \cdot U_{l 20} \circ C$

and

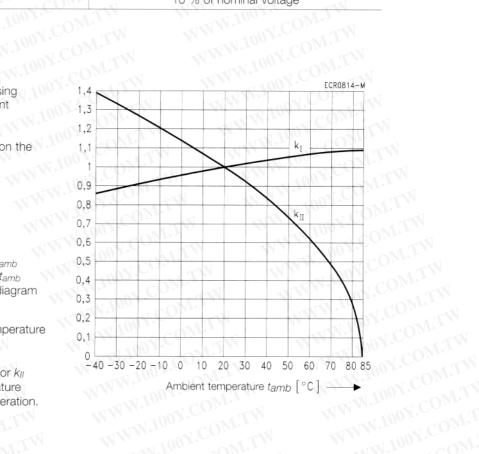
 $U_{II tamb} = k_{II} \cdot U_{II 20} \circ C$

= Ambient temperature

U_{I tamb} = Minimum voltage at ambient temperature t_{amb} Ull tamb = Maximum voltage at ambient temperature tamb k_l and k_{ll} = Factors (dependent on temperature), see diagram

The sum of the ambient temperature and coil over temperature must not exceed 85 °C.

The maximum voltage is calculated such that with factor kill taken into account the maximum permissible temperature of the relay will not be exceeded during continuous operation. WWW.100Y.COM.TV WWW.100X.



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Miniature Relay D1

TW W	11, 100 x . COM	11.11	1100 r. COM: 1	
Coil versions	WWW 100Y.Co	MIN WY	N.100Y. COM.TW	_lt
Nominal voltage \mathcal{U}_{om}	Operating value of the Minimum voltage U_1	voltage range 20°C Maximum voltage U _{II}	Resistance at 20°C	Coil numb Ordering co
V-1.T	V-100	V-	Ω COM	
Standard version	MM 1007	CONT.TW	100x.	UTW
monostable, 1 winding	MAN 100	I.CO. TAN	WW 1007.00	A0 ***/-A2
50	3,75	16,5	320 ± 32	001
12	9	30	1140 ± 170	002
24	18	60	4370 ± 650	004
bistable, 2 windings	M MM	1001. OW.IM	W 1001	B0 ***/-B2
5 CO	3,75	16	315 ± 47	101
12 CON	9	30	1110 ± 165	102
15	11,25	37	1760 ± 265	103
24	18	46	2800 ± 420	104
bistable, 1 winding	WW WY	TI 100Y.COM.TY	WW.	-C0***/-C
11 15 CO	3,75	20	500 ± 75	051
12	9	38	1850 ± 275	052
24	18	67	5650 ± 845	054

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Coil versions for sensitive versions are available on request. WWW.100Y.COM.TW WWW.100Y.COM.TW WWW.100Y.C

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A.CO. AMM. 100 CO. TA	WW. 100X.COMITW	
Gerneral data	M MAN TOOK COME LAN	
Operate time at <i>U_{nom}</i> and at 20 °C, typ.	2 ms	
Release time at <i>U_{nom}</i> and at 20 °C (bistable), typ.	2 ms	
Release time without diode in parallel (monostable), typ.,	0,6 ms	
Bounce time	≤ 1 ms	
Maximum switching rate without load	100 operations/s	
Ambient temperature according to DIN IEC 255	-40 °C+70 °C	
Part 1-00 and VDE 0435 Part 201		
Maximum permissible coil temperature	85°C	
Continuous thermal load	850 mW	
Vibration resistance (function),	20 g, 200 to 2000	
frequency range according to ICE 68-2-6	Hz40 g, 10 to 200 Hz	
Shock resistance (function), half sinus, 11 ms	100 g	
according to IEC 68-2-27	OY.CO. TW WWW. 100Y.CO. TW.TW	
Degree of protection according to DIN VDE 0470 Part	Immersion cleanable IP 67	
1/IEC 529	Sealing corresponds to DIN IEC 68 Part 2-17, method Qc	
Electrical endurance for resistive load:	100 COWIT	
6 V-, 100 mA	Approx. 10 ⁸ operations	
24 V-, 1 A	Approx. 10 ⁷ operations	
Mechanical endurance	Approx. 10 ⁹ operations	
Flammability	Flame resistant according to DIN IEC 695 Part 2-2	
Mounting position	Any Any	
Processing information	Ultrasonic cleanable	
MAN N'IR COM.	Cleaning agent resistant according to DIN IEC 68 Part 2-45	
Weight (mass)	Approx. 6 g	

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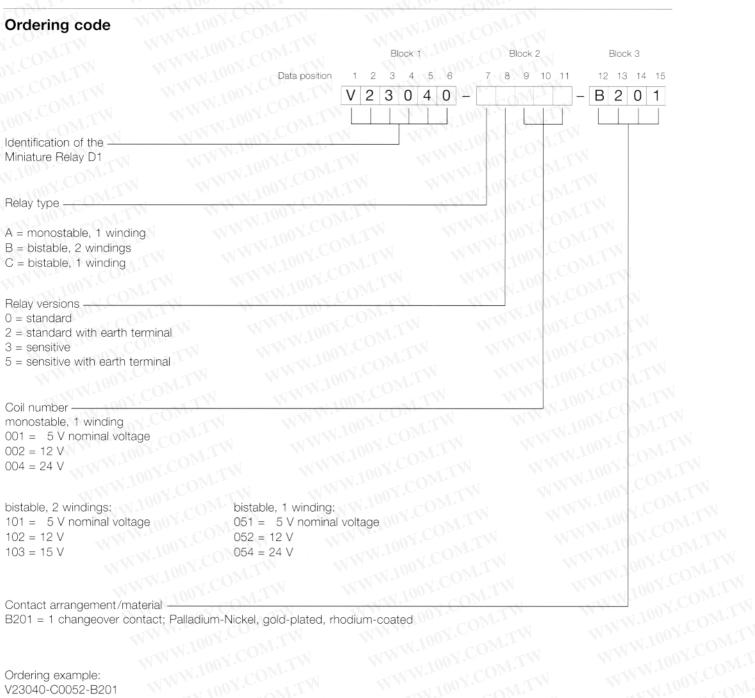
Insulation	MMM.100X.COM.LM	MANN TOOK CONTAIN	MMA. TOOX CON TA
Insulation resistance	e at 500 V	≥10 ⁹ Ω	W.100 1. COM.1
Dielectric test voltag	ge contact/winding (1 min)	WW. 100Y.	WW. 1007.
Contact/winding		1500 V~rms	
Open contact		750 V~rms	
Winding/cover		1000 V~rms	
Contact/cover		1000 V~rms	
	MMM. CON.COM	WWW. LOOY.CO.	M MM 100X.Co.

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Miniature Relay D1

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Ordering code



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Ordering example:

V23040-C0052-B201

Miniature Relay D1, bistable, 1 winding, standard version, coil 12 V nominal voltage

Note:

WW.100Y.COM Special designs can be carried out to meet customer specifications. Please contact your local representative for more infor-WWW.100Y.COM.TW WWW.100Y.C WWW.100Y.2 WWW.100Y.COM.TW

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