General Purpose Relays PCB Relays

Power PCB Relay RPII/1

- 1 pole 8/12/16A, 1 form C (CO) or 1 form A (NO) contact
- 4kV/8mm coil-contact

Electronics

₹ Тусо

- Pinning 3.5 or 5mm (8/12A) and 5mm (16A)
- RoHS compliant (Directive 2002/95/EC)

Typical applications

Power supplies, domestic appliances, heating control, installation WW.100Y.COM

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F0146-B (VDE) 119

Approvals

VDE REG.-Nr. C894, cULus E214024 Technical data of approved types on request

Contact Data	8A	12A	16A
Contact arrangement	1 form	C (CO) or 1 forr	n A (NO)
Rated voltage	CU.	250VAC	NNN .
Max. switching voltage		400VAC	
Rated current	8A	12A	16A
Limiting making current	16A	20A	25A
Breaking capacity max.	2000VA	3000VA	4000VA
Contact material	AgNi0.15	AgCdO	AgCdO
Frequency of operation, with/with	nout load	600/72000h-1	
Operate/release time typ.		8/2ms	
Bounce time typ., form A/form B	M.C.	2/4ms	N
		N	

Contact ratings

Туре	Contact	Load	Cycles
IEC61810			
RP310	A (NO)	16A, 250VAC resistive, 35°C	100x10 ³
RP410/418	A (NO)	12A, 250VAC resistive, 35°C	100x10 ³
RP410/418	C (CO)	10A, 250VAC resistive, 70°C	100x10 ³
RP411/418	A (NO) 🚿	8A, 250VAC resistive, 35°C	100x10 ³

Operations

10

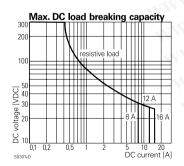
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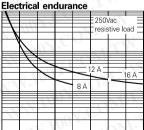
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S0306-A

Mechanical endurance

>30x10⁶ operations





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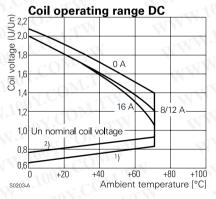
5 to 110VDC Coil voltage range Operative range, IEC 61810 2 Coil versions, DC coil Coil Rated Operate Release Coil Rated coil code voltage voltage voltage resistance power

	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
005	5	3.5	0.5	54	500
006	6	4.2	0.6	68	500
012	12	8.4	1.2	270	500
024	24	16.8	2.4	1100 ¹⁾	500
048	48	33.6	4.8	4400 ¹⁾	500
060	60	42.0	6.0	6540 ¹⁾	500
110	110	77.0	11.0	23100 ¹⁾	500

1) Coil resistance ±15%.

Coil Data

All figures are given for coil without pre-energization, at ambient temperature +20°C. Other coil voltages on request.



Insulation Data

Initial dielectric strength between open contacts between contact and coil	1000V _{rms} 4000V _{rms}	
	> 9/9mm	
Material group of insulation parts	≥8/8mm Illa	
The second se		
	between open contacts between contact and coil Clearance/creepage between contact and coil	between open contacts 1000V _{rms} between contact and coil 4000V _{rms} Clearance/creepage between contact and coil between contact and coil ≥8/8mm

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Power PCB Relay RPII/1 (Continued)

Other Data

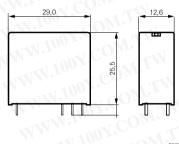
Vaterial compliance: EU RoHS/ELV, (China RoHS, REACH, Halogen content
refer to the F	Product Compliance Support Center at
www.tycoelectronics.cor	m/customersupport/rohssupportcenter
Ambient temperature	-40 to +70°C
Category of environmental protection	
IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional),	
form A/form B, 30 to 300Hz	10/2g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Weight	18g
Resistance to soldering heat THT, IEC	60068-2-20
flux proof version	270°C/10s
wash tight version	260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.

S0163-BG

S0163-BH

Dimensions

Dimensions in mm

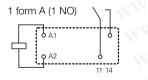


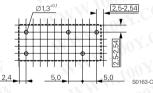
S0273-AA

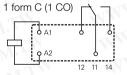
PCB layout / terminal assignment

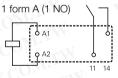
8/12A, pinning 3.5 mm

2,4 S0163-CQ 1 form C (1 CO) 6 A1 γ δ <u>9</u> A2 12 11 14



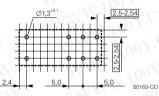


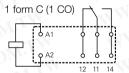




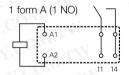
Bottom view on solder pins Dimensions in mm

16A, pinning 5 mm

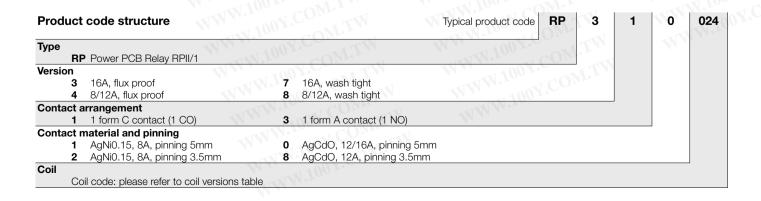




S0163-BE



S0163-BF



S0163-BC

S0163-BD

8/12A, pinning 5 mm

Power PCB Relay RPII/1 (Continued)

Product code	Version	Contact arrangement	Contact material	Pinning	Coil	Part numb
RP310012	16A, flux proof	1 form C (CO) contact	AgCdO	5mm 16A	12VDC	2-1393230-9
RP310024		N.W. CON		.WW.	24VDC	3-1393230-
RP310048	V /V		NT.	100X	48VDC	3-1393230-3
RP330012		1 form A (NO) contact	1.1	W.Lu	12VDC	4-1393230-7
RP330024	TV.	N N N N N	WT.	100	24VDC	4-1393230-9
RP330048		NIN IN	M.		48VDC	5-1393230-1
RP410024	12A, flux proof	1 form C (CO) contact	WT .	5mm 8/12A	24VDC	8-1393230-2
RP411024	8A, flux proof	100 -	AgNi0.15			9-1393230-
RP412024	- N	U Voor VIV		3.5mm		1-1393231-2
RP418012	12A, flux proof	100 -	AgCdO		12VDC	2-1393231-5
RP418024		No.		V V	24VDC	2-1393231-8
RP438012	1 - 1	1 form A (NO) contact	ALL Y	I AND	12VDC	5-1393231-0
RP710012	16A, wash tight		COM	5mm 16A		7-1393231-2
RP710024		1003			24VDC	7-1393231-5
RP730012	10 M	1 form A (NO) contact	A CUM	W V	12VDC	8-1393231-2
RP818012	12A, wash tight	0011	1.	3.5mm		1-1393232-7

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