

Power PCB relay OSA

- 2 pole, 3A(DM3)/5A(DM5), 2 form A (NO)
- UL TV-3 rating (DM5) available
- Meet 3000V dielectric voltage between coil and contacts
- Meet 5000V surge voltage between coil and contacts

Typical applications
Audio equipment, home appliances, office machines



Approvals

DM5:

Mechanical endurance

UL E82292, CSA LR48471-68, TuV R50137386(DM5), SEMKO 613297(DM5), CQC 07001021623

Technical data of approved types on request

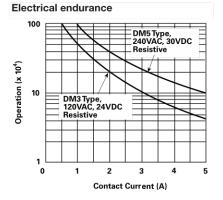
Contact Data	DM3	DM5	
Contact arrangement	2 form A (NO)		
Rated voltage	240VAC		
Max. switching voltage	30VDC, 240VAC		
Rated current	3A	5A	
Switching power	300VA, 72W	1100VA, 150W	
Contact material	Ag alloy	AgSnO	
Min. recommended contact load	100mA, 5VDC		
Initial contact resistance	100mΩ at 1A, 6VDC		
Frequency of operation, with/without	load 1800/18000h ⁻¹		
Operate/release time max.	ease time max. 20/10ms		
Electrical endurance			
DM3: 3A, 120VAC, resistive,	100x1	0^3 ops.	
DM5: 5A, 240VAC, resistive,	100x1	0^3 ops.	
Contact ratings			
DM3:	3A, 125V	AC/30VDC	

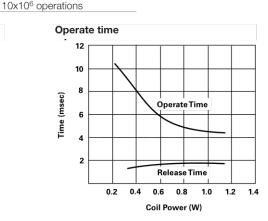
Coil Data		
Coil voltage range	5 to 48VDC	
Coil insulation system according UL	class 105 (A)	

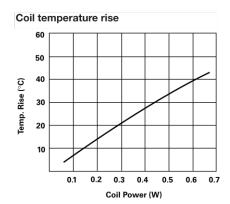
Coil versions, DC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
05	5	3.75	0.25	47	540
06	6	4.5	0.3	68	540
09	9	6.75	0.45	155	540
12	12	9.0	0.6	270	540
24	24	18.0	1.2	1100	540
48	48	36.0	2.4	4400	540

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







5A, 240VAC/DC30V, TV-3, 125VAC



Power PCB relay OSA (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	4000V _{rms}	
between adjacent contacts	2500V _{rms}	
Initial surge withstand voltage		
between contact and coil	7000V	
Initial insulation resistance	1000ΜΩ	
Clearance/creepage		
between contact and coil	7/7mm	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature
Category of environmental protection

-30 to 60°C

IEC 61810

RTII - flux proof, RTIII - wash tight

Vibration resistance (functional) Shock resistance (functional) 10 to 50Hz, 1.5mm double amplitude

Shock resistance (functional) IEC 60068-2-27 (half sine)

98m/s², 11ms PCB-THT

Terminal type Weight

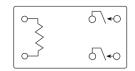
13g

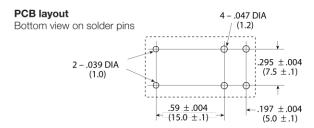
Resistance to soldering heat THT IEC 60068-2-20 Packaging/unit

260°C/5s box/1000 pcs.

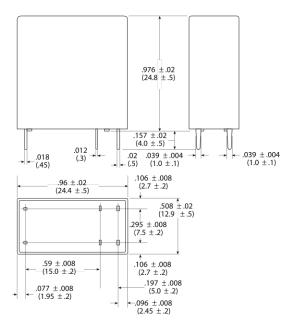
Terminal assignment

Bottom view on solder pins



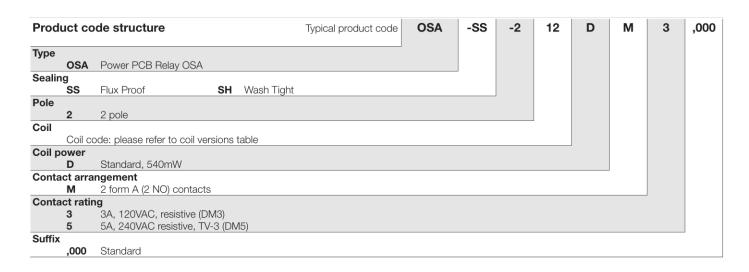


Dimensions





Power PCB relay OSA (Continued)



Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
OSA-SS-205DM3,000	3A	2 form A (2 NO)	Ag Alloy	540mW	5VDC	Flux proof	3-1419145-2
OSA-SS-212DM3,000					12VDC		5-1419124-6
OSA-SS-224DM3,000					24VDC		5-1419124-9
OSA-SH-205DM3,000					5VDC	Wash tight	1461388-1
OSA-SH-212DM3,000					12VDC		3-1419124-5
OSA-SH-224DM3,000					24VDC		2-1440007-5
OSA-SS-205DM5,000	5A		AgSnO		5VDC	Flux proof	5-1419124-3
OSA-SS-212DM5,000					12VDC		5-1419124-7
OSA-SS-224DM5,000					24VDC		6-1419124-1
OSA-SH-205DM5,000					5VDC	Wash tight	7-1440004-6
OSA-SH-212DM5,000					12VDC		3-1419124-9
OSA-SH-224DM5,000					24VDC		1461388-4

the 'Definitions' section, available at

http://relays.te.com/definitions