

Miniature PCB Relay 0J/0JE

- 3 to 10A rating
- **■** Small size
- 4000V_{rms} coil to contact dielectric strength (OJ type)
- Sensitive coil optional



F0277-C

Typical applications Appliances, HVAC, industrial control



Approvals	
VDE 40007630, TUV R 50139166, UL E82292, CQC03001007764	
Technical data of approved types on request	

Contact	t Data				
Contact a	rrangement	1 form A,	1 NO		
Rated vol	tage	30VDC, 25	OVAC		
Max. swite	ching voltage	30VDC, 27	7VAC		
Rated cur	rent	3 to 10)A		
Contact n	naterial	Ag, AgSnO, AgCdO			
Min. recor	mmended contact load	100mA, 5	VDC		
Frequency	y of operation	360 ops	s./h		
Operate ti	me max.	OJ/OJE-L:	15ms		
		OJ/OJE-D/H	l: 10ms		
Release ti	me max.	4ms			
Electrical	endurance				
LM	3A, 250VAC, res., -30°C	to +95°C	100x10 ³ ops.		
DM	5A, 250VAC, res, -30°C t	o +85°C	60x10 ³ ops.		
LMH(2)	8A, 250VAC, res., -30°C	to +70°C	100x10 ³ ops.		
LMH2	8A, 250VAC,res., -30°C t	o +85°C	$30x10^{3}$ ops.		
HM	10A, 250VAC, res., -30°C	c to +70°C	100x10 ³ ops.		
HM2	10A, 250VAC, res., -30°C	c to +85°C	10x10 ³ ops.		
Contact ra	atings				
LM		3A, 250\	/AC		
DM		5A 250V	'AC		
LMH(2)	1	8A 250V	AC .		
HM(2)		10A 250'	VAC		
Mechanic	al endurance, DC coil	10x10 ⁶ ope	rations		

Coil Data		
Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class E. F	

Coil versions, DC coil, OJ/OJE-L sensitive type								
Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	Ω±10%	mW			
003	3	2.25	0.15	45	200			
005	5	3.75	0.25	125	200			
006	6	4.5	0.3	180	200			
009	9	6.75	0.45	405	200			
012	12	9	0.6	720	200			
024	24	18	1.2	2880	200			
048	48	36	2.4	11520	200			

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

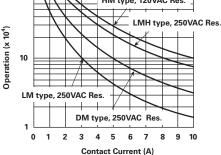
Coil versions, DC coil, OJ/OJE-D and -H type

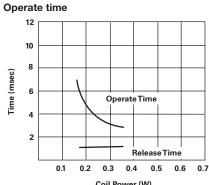
Rated	Onerate	Release	Coil	Rated coil	
0		0		power	
VDC	VDC	VDC	$\Omega \pm 10\%$	mW	
3	2.1	0.15	20	450	
5	3.5	0.25	55.6	450	
6	4.2	0.3	80	450	
9	6.3	0.45	180	450	
12	8.4	0.6	320	450	
24	16.8	1.2	1280	450	
	5 6 9 12	voltage voltage VDC VDC 3 2.1 5 3.5 6 4.2 9 6.3 12 8.4	voltage voltage voltage VDC VDC VDC 3 2.1 0.15 5 3.5 0.25 6 4.2 0.3 9 6.3 0.45 12 8.4 0.6	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

48 33.6 2.4 5120 450 All figures are given for coil without pre-energization, at ambient temperature +23°C

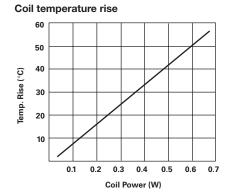
100 HM type, 120VAC Res.

Electrical endurance





Coil Power (W) Test relay: OJE-SH-112LMH



-100 ± .004 (2.54 ± .1)



Miniature PCB Relay OJ/OJE (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	$750V_{rms}$
between contact and coil	OJ: 4000V _{rms}
	OJE: 3000V _{rms}
Clearance/creepage	
between contact and coil	OJ: > 7.7mm / 9.4mm
between contact and coil	OJE: > 3.2mm / 3.6mm
Tracking index of relay base	PTI 250

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 DM: -30°C to +85°C НМ: -30°C to +70°C HM2: -30°C to +85°C

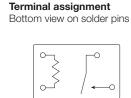
LM -30°C to +90°C LMH: -30°C to +70°C LMH2: -30°C to +85°C Category of environmental protection

IEC 61810 RTII - dust protected

RTIII - wash tight Shock resistance (functional) 10g Shock resistance (destructive) 100g Weight 9g

Resistance to soldering heat THT IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

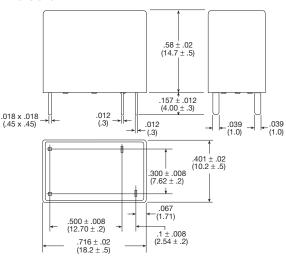
Packaging unit tray/100, carton box/1000

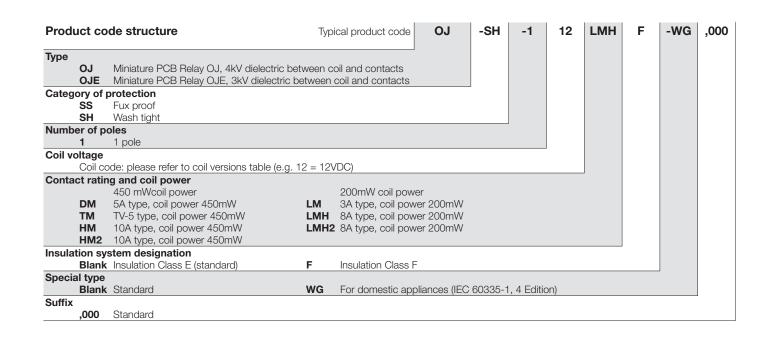


PCB layout Bottom view on solder pins - .05 DIA .067 (1.71) (1.3) .300 ± .004 (7.6 ± .1)

.500 ± .004 (12.7 ± .1)

Dimensions







Miniature PCB Relay OJ/OJE (Continued)

Product code	Rating	Cont. mat.	Coil	Coil power	Туре	Insulation	Enclosure	Part Number
OJ-SH-105LM,000	ЗА	Ag	5VDC	200mW	Standard	Class E	Wash tight	1461404-1
OJE-SH-112LM,000			12VDC					1461401-5
OJE-SS-112LM,000							Flux proof	4-1419128-6
OJ-SH-112LM,000							Wash tight	1461404-6
OJ-SS-112LM,000							Flux proof	2-1419129-1
OJ-SS-124LM,000								3-1419129-1
OJ-SH-124LM,000			24VDC				Wash tight	1461404-4
OJE-SH-105DM,000	5A		5VDC	450mW				1461400-1
OJE-SS-105DM,000							Flux proof	2-1419128-8
OJE-SH-112DM,000			12VDC				Wash tight	1461400-4
OJE-SS-112DM,000							Flux proof	4-1419128-2
OJ-SH-112DM,000							Wash tight	1461406-4
OJ-SS-112DM,000							Flux proof	1-1419129-8
OJE-SH-124DM,000			24VDC				Wash tight	1461400-5
OJE-SS-124DM,000							Flux proof	6-1419128-2
OJ-SS-124DM,000								2-1419129-9
OJE-SH-105LMH,000	8A	AgCdO	5VDC	200mW			Wash tight	1461403-3
OJE-SH-105LMH-WG					WG type			1721875-2
OJE-SS-105LMH,000					Standard		Flux proof	1461034-2
OJ-SH-105LMH,000							Wash tight	8-1419128-1
OJ-SH-106LMH,000			6VDC					1461247-1
OJE-SH-109LMH,000			9VDC					1461403-2
OJE-SS-109LMH,000							Flux proof	5-1419144-3
OJ-SH-109LMH,000							Wash tight	1461247-2
OJ-SS-109LMH2-WG		AgSnO			WG type		Flux proof	1721874-4
OJ-SS-109LMHF,000		AgCdO			Standard	Class F		1721083-5
OJE-SH-112LMH,000			12VDC			Class E	Wash tight	1461403-4
OJE-SH-112LMH-WG					WG type			1721875-5
OJE-SS-112LMH,000					Standard		Flux proof	5-1419128-0
OJE-SS-112LMH2		AgSnO						1721261-5
OJ-SH-112LMH,000		AgCdO					Wash tight	9-1419128-8
OJ-SH-112LMH2		AgSnO						1-1721260-1
OJ-SS-112LMH,000		AgCdO					Flux proof	2-1419129-5
OJ-SS-112LMH2		AgSnO						1721260-5
OJ-SS-112LMHF,000		AgCdO				Class F		1721083-1
OJE-SH-124LMH,000			24VDC			Class E	Wash tight	1461403-5
OJE-SH-124LMH-WG					WG type			1721875-6
OJE-SS-124LMH,000					Standard		Flux proof	7-1419128-1
OJ-SH-124LMH,000							Wash tight	1461247-3
OJ-SS-124LMH,000							Flux proof	4-1419144-4
OJ-SS-124LMH2		AgSnO						1721260-6
OJ-SS-124LMH2-WG					WG type			1721874-6
OJ-SS-124LMHF,000		AgCdO			Standard	Class F		1461014-2
OJ-SH-105HM,000	10A	Ag	5VDC	450mW		Class E	Wash tight	1461405-3
OJE-SH-112HM,000			12VDC					1461402-6
OJE-SS-112HM,000							Flux proof	4-1419128-3
OJE-SS-112HM2,000		AgSnO						1721539-5
OJ-SH-112HM,000		Ag					Wash tight	1461405-5
OJ-SS-112HM,000							Flux proof	1419135-3
OJ-SS-112HMF,000						Class F		1461078-5
OJE-SS-124HM,000			24VDC			Class E		6-1419128-4
OJ-SS-124HM,000								1440007-2
OJ-SS-124HM2,000		AgSnO						1721538-7

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