

MINIATURE PCB RELAY OJ/OJE

- 1 Pole, 1 Form A (NO) Contact
- 3-10A contact rating
- Small size with outline dimension if 18.2L*10.2W*14.7H(mm)
- 4000Vrms coil contact di-electric strength (OJ type)
- Sensitive coil optional (200mW type);
- WG version, Anti-Ex version (Haz-Loc version) optional

Typical applications

Major home appliances, small appliances, HVAC, Industrial control

Approvals

VDE 40007630, cULus E82292, CQC03001007764, TUV R 501391660014-0015

Contact Data

Contact arrangement	1 form A, 1 NO				
Rated voltage	30VDC, 250VAC				
Max. switching voltage	30VDC, 277VAC				
Rated current	3 to 10A				
Contact material	AgNi, AgSnO, AgCdO				
Initial contact resistance	100 milliohms @ 1A,6VDC				
Min. recommended contact load	100mA, 5VDC				
On evate time may	OJ/OJE-L: 15ms				
Operate time max.	OJ/OJE-D/H: 10ms				
Release time max.	4ms				
Electrical endurance					
UL					
OJ/OJE-LM	3A 250VAC, general use, 100k ops				
OJ/OJE-DM	5A 250VAC 85C 60k ops, 10 LRA / 1.5 FLA, 120VAC, 100k ops				
OJ/OJE-LMH	8A 277VAC res, 70C 100k ops (SS), 6.6 LRA / 1.1 FLA, 120VAC, 105C 100k ops				
OJ/OJE-LMH2	8A 250VAC res, 85C 30k ops, 12 LRA / 2 FLA 250VAC, 85C 100k ops				
OJ/OJE-HM	10A 250VAC, general use, 30k ops (SH type), 18 LRA / 4 FLA, 240VAC, 85C 100k ops,				
03/03E-HM	7.5A 240VAC res, 105C 100k ops (SS)				
OJ/OJE-HM2	10A 250VAC res, 100k ops (SS type), 7.5A 240VAC res, 105C 100k ops (SS type)				
OJ/OJE-HM6	10A 250VAC res, 85C 50k ops (OJ WG type only), 7.5A 240VAC res, 105C 100k ops				
VDE					
OJ/OJE-LM	3A 250VAC res, 55C 100k ops				
OJE-DM	5A 250VAC res, 85C 50k ops				
OJ/OJE-LMH	8A 250VAC res, 85C 10k ops				
OJ-LMH2	8A 250VAC res, 85C 25k ops				
OJ-LMH2	5A 250VAC res, 105C 50k ops				
OJE-HM	10A 250VAC res, 85C 30k ops				
OJ-HM	10A 250VAC res, 85C 10k ops				
OJ-HM2	10A 250VAC res, 85C 50k ops				
Mechanical endurance, DC coil	10x10 ⁶ operations				

Coil Data

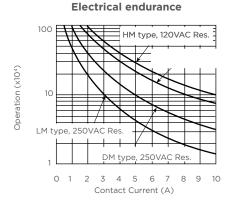
Coil voltage range	3 to 48VDC			
Operative range, IEC 61810	2			
Coil insulation system according UL	Class F			

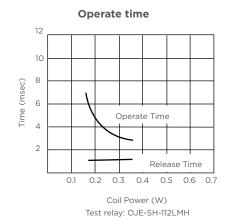
Coil versions, DC coil, OJ/OJE-L sensitive type

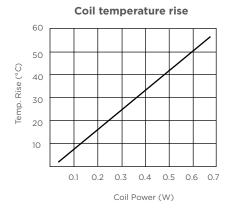
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil Resistance Ω±10%	Rated coil power mW	
003	3	2.25	0.3	45	200	
005	5	3.75	0.5	125	200	
006	6	4.5	0.6	180	200	
009	9	6.75	0.9	405	200	
012	12	9	1.2	720	200	
024	24	18	2.4	2880	200	
036	36	27	3.6	6480	200	
048	48	36	4.8	11520	200	

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

Coil code	Rated voltage VDC	ated voltage VDC		Coil Resistance Ω±10%	Rated coil power mW
003	3	2.25	0.3	20	450
005	5	3.75	0.5	55.5	450
006	6	4.5	0.6	80	450
009	9	6.75	0.9	180	450
012	12	9	1.2	320	450
024	24	18	2.4	1280	450
036	36	27	3.6	2880	450
048	48	36	4.8	5120	450







Insulation Data

Initial dielectric strength					
Between open contacts	750Vrms				
Between contact and coil	OJ: 4000Vrms				
	OJE: 3000Vrms				
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

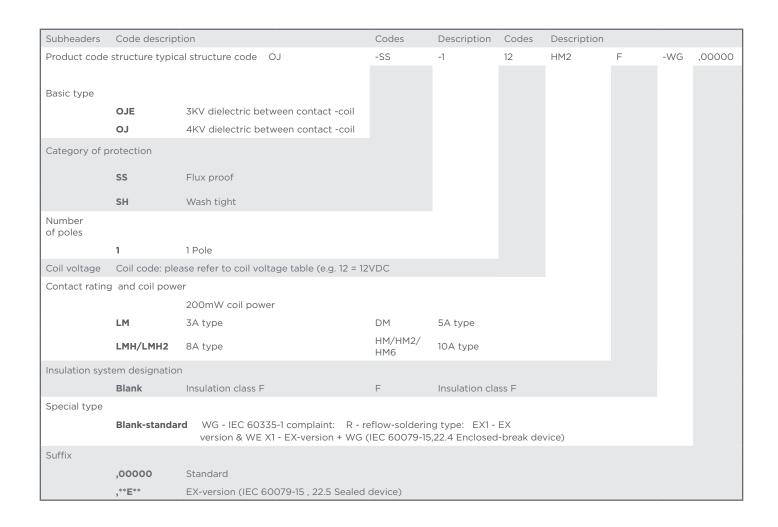
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter			
Ambient temperature				
LM	-40 ~ +105C			
DM	-40 ~ +85C			
LMH(2)	-40 ~ +105C			
HM(2)/HM6	-40 ~ +105C			
Category of environmental protection				
IEC 61810	RTII - flux proof			
	RTIII - wash tight			
Shock resistance (functional)	10g			
Shock resistance (destructive)	100g			
Weight	6g			
Resistance to soldering heat THT				
IEC 60068-2-20	RTII: 270°C/10s			
	RTIII: 260°C/5s			
Packaging unit	Tray/100, carton box/1000			
Packaging unit	Iray/ IOO, carton box/ IOOO			

Terminal assignment PCB layout Bottom view on solder pins Bottom view on solder pins ייין יייין יייין אויייא פואטאנעפ אטוו. F = Class F₄(1.565 p)(2) (1.3) 1.7.067 Blank = Class A (105 °C) 0.095 = Standard model for erStandard mocel for enclosure code "SS" 0 ole for immersion cleaning processes. .300 ± .004 er contact rating with sensitve coil, add suffix "H" to the end of the part number as (17.600) (7.6 **+** orized distributors are more likely to stock the following iten .500 ± .002HM,095 .100 ± .004 (12.7 ± .1) + 101H,095 (21.00 ± .1) (2.54 1) OJE-SH-105DM,095 HM.095 LMH,095

OJE-SH-112DM,095

Operate Time Li .58 **±802** .02 (14.7_世.5)_{± .5} 10 10 030.000 (0.1) (0.1) .157.±5.10±2.012 (4.00/±.03) ± .3) .018 ± .018 .012 Operate Time .012 .012 (.3) (.3) .039039 (.45 ± .45) (1.0)1.0) .401.<u>4</u>.002±.02 (10.2(±0.5)±.5) .300 ₺**№№**aseФime (7.62 ±62) ± .2) 0.2 0.4 0.5 0.1 0.6 0.7 .1 ±1.008°08 (2.542±521) ± .2) Specifications and a subject to change

Dimensions



Product Code	Part Number	Rating	Contact Material	Coil voltage	Coil powder	Туре	Insulation	Enclosure			
OJE-SH-112LM,000	1461401-5	3A		12VDC		standard		Wash tight			
OJ-SS-112LM,000	2-1419129-1										
OJ-SS-124LM,000	3-1419129-1			24VDC	200mW			Flux proof			
OJ-SH-105LM,000	1461404-1			5VDC							
OJ-SH-112LM,000	1461404-6		AgNi	12VDC				Wash tight			
OJE-SH-112DM,00E0W	2071369-1			12 V D C		EX-version					
OJE-SH-105DM,000	1461400-1			5VDC							
OJE-SS-112DM,000	4-1419128-2	5A		12VDC	450mW			Flux proof			
OJE-SH-124DM,000	1461400-5			24VDC							
OJ-SH-112DM,000	1461406-4			12VDC		standard		\			
OJ-SH-105LMH,000	8-1419128-1		A =: C = O	5VDC				Wash tight			
OJ-SH-112LMH,000	9-1419128-8		AgCdO	12VDC	200.004						
OJ-SS-112LMH2	1721260-5		AgSnO					Flux proof			
OJ-SS-112LMH2-WG	1721874-5	- 8A -				WG version	Class F				
OJ-SS-124LMH2	1721260-6			24VDC	200mW		Class F				
OJE-SH-105LMH,000	1461403-3] [AgCdO	5VDC				Wash tight
OJE-SH-112LMH,000	1461403-4			AgCdO	12VDC				vvasii tigiit		
OJE-SS-112LMH2	1721261-5		AgSnO	IZVDC				Flux proof			
OJE-SH-105HM,000	1461402-4		A @ C d O	5VDC		standard		Wash tight			
OJE-SH-112HM,000	1461402-6		AgCdO					vvasii tigiit			
OJE-SS-112HM2,000	1721539-5		AgSnO	12VDC							
OJE-SS-112HMF,F000	4-1419128-4	- 10A	10.4	V = C = O		450mW					
OJE-SS-124HMF,F000	6-1419128-6		AgCdO	24VDC				Flux proof			
OJ-SS-112HM6-WG,00000	2071398-1			A =: C == O	12VDC	WG	WG version				
OJ-SS-124HM2,000	1721538-7			AgSnO	24VDC		standard				
OJE-SH-112HMF,00E0W	2071370-1		AgCdO		1	EX-version		Wash tight			
OJ-SS-112LMH2- WEX1,00000	2071404-1	8A	AgSnO	12VDC	200mW	EX-version + WG		Flux proof			
OJ-SH-112HM2-WG,00000	2071505-1	10A		12V	450mW	WG version	1	Wash tight			

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