

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 voltage res | | 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

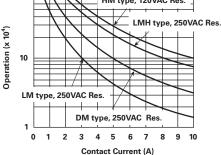
Coil versions, DC coil, OJ/OJE-D and -H type

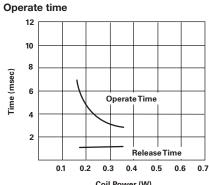
| Rated coil |
|------------|
| |
| power |
| mW |
| 450 |
| 450 |
| 450 |
| 450 |
| 450 |
| 450 |
| |

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

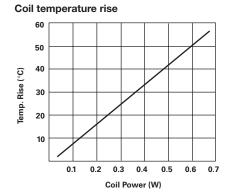
100 HM type, 120VAC Res.

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

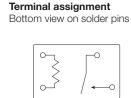
LM -30°C to +90°C LMH: -30°C to +70°C LMH2: -30°C to +85°C Category of environmental protection

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

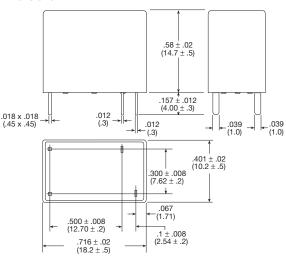
Packaging unit tray/100, carton box/1000

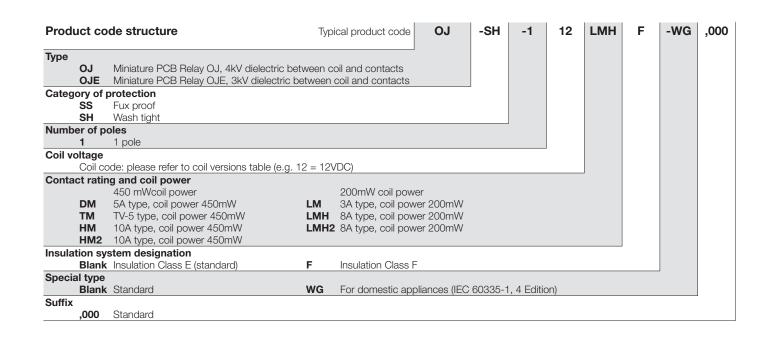


PCB layout Bottom view on solder pins - .05 DIA .067 (1.71) (1.3) .300 ± .004 (7.6 ± .1)

.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 | 3A | 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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