

Miniature PCB Relay EJ

- 1pole 3A/5A, 1 form A (NO) contact
- Sensitive coil 200mW
- Ambient temperature 85°C
- RoHS compliant (Directive 2002/95/EC)
- Coil UL class F (155) Insulation System

Typical applications Home appliances.



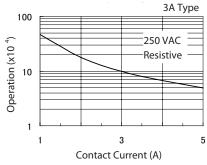


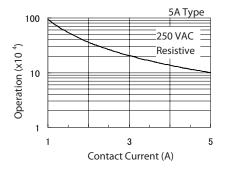
>5x10⁶ operations

Approvals VDE 40026866, UL E58304 Technical data of approved types on request.

Contact Data	
Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	30VDC, 277VAC
Rated current	3A/5A
Switching power	1,250VA, 150W
Contact material	AgNi
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.	10ms
Electrical endurance	
EJ00 (3A): 3A, 250VAC, resistive:	100x10 ³ ops.
EJ05 (5A): 5A, 250VAC, resistive:	100x10 ³ ops

Electrical endurance

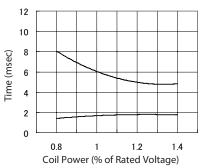




Contact Data (continued)					
Contact ratings					
Type	Contact Load				
IEC 6	1810				
EJ	form A (NO)	5A,250VAC, cosφ=1, 85°C	100x10 ³		
EJ	form A (NO)	2A,250VAC, cosφ=1, 85°C	100x10 ³		
EJ	form A (NO)	3A,250VAC, cosφ=1, 105°C	250x10 ³		
UL 50	8	·			
EJ	form A (NO)	3A,277VAC, cosφ=1, 85°C	50x10 ³		

Operate time

Mechanical endurance



Coil Data		
Coil voltage range	3 to 24VDC	
Coil insulation system according UL	class 155 (F)	

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	3	2.25	0.3	45	200
005	5	3.75	0.5	125	200
006	6	4.50	0.6	180	200
009	9	6.75	0.9	405	200
012	12	9.00	1.2	720	200
018	18	13.50	1.8	1620	200
024	24	18.00	2.4	2890	200

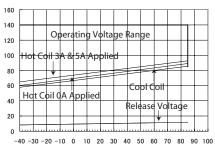
All figures are given for coil without pre-energization, at ambient temperature +23°C.



Miniature PCB Relay EJ (Continued)

Contact data (continued)

Coil operative range



Ambient Temp. ()

Insulation Data		
Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	4000V _{rms}	
Initial surge withstand voltage	11110	
between contact and coil	10000V	
Initial insulation resistance	1000ΜΩ	
Clearance/creepage		
between contact and coil	>= 6.3mm standard type	
	>= 8.0mm reinforced type	

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 -40 to 85°C

Ambient temperature Category of environmental protection

RTII - flux proof, IEC 61810

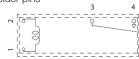
RTIII - wash tight

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

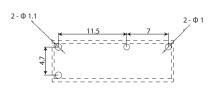
SHOOK resistance (functional)		
IEC 60068-2-27 (half sine)	98m/s ² , 11ms	
Terminal type	PCB-THT	
Weight	4g	
Resistance to soldering heat THT		
IEC 60068-2-20	260°C/5s	
Packaging/unit	box/1000 pcs.	

Terminal assignment

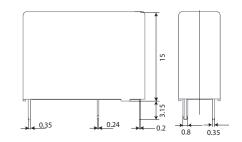
Bottom view on solder pins

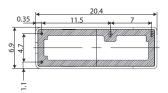


PCB layout



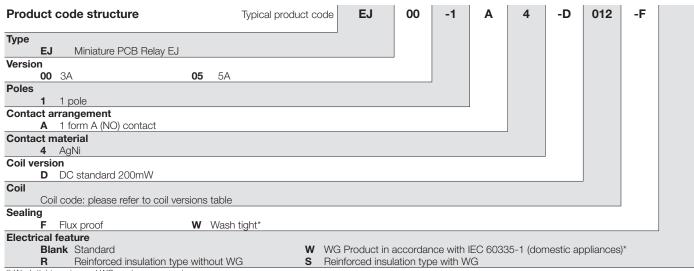
Dimensions







Miniature PCB Relay EJ (Continued)



^{*)} Wash tight version and WG version on request.

Product code	Version	Contact	Cont.material	Coil version	Coil voltage	Sealing	Part number
EJ00-1A4-D003-F	3A	1 form A (NO)	AgNi 90/10	200mW	3VDC	Flux proof	1649595-1
EJ00-1A4-D005-F					5VDC		1649595-2
EJ00-1A4-D006-F					6VDC		1649595-3
EJ00-1A4-D009-F					9VDC		1649595-4
EJ00-1A4-D012-F					12VDC		1649595-5
EJ00-1A4-D018-F					18VDC		1649595-6
EJ00-1A4-D024-F					24VDC		1649595-7
EJ05-1A4-D003-F	5A				3VDC		1649594-1
EJ05-1A4-D005-F					5VDC		1649594-2
EJ05-1A4-D006-F					6VDC		1649594-3
EJ05-1A4-D009-F					9VDC		1649594-4
EJ05-1A4-D012-F					12VDC		1649594-5
EJ05-1A4-D018-F					18VDC		1649594-6
EJ05-1A4-D024-F					24VDC		1649594-7