

POWER RELAY 1 POLE - 16A 80A Inrush type

FTR-K1 Series

■ FEATURES

- Peak 80A inrush current (1 form A type)
- Low profile (height: 15.7mm)
- High insulation
 Insulation distance (between coil and contacts):
 10mm min. Dielectric strength: 5KV Surge strength: 10KV
- Class F coil wire
- Low coil power (400mW)
- Glow wire compliant type available which satisfies GWT required for relay in IEC/EN 60335-1
- Cadmium free contacts
- Safety standards
 UL, CSA, VDE, CQC approved
 UL, CSA TV-5 rating approved (make contact)
- Flux proof, RTII
- RoHS compliant

Please see page 6 for more information



■ Part Numbers

[Example]	FTR-K1	C	K	012	W	-	BG	 GW
	(a)	(b)	(c)	(d)	(e)		(f)	(g)

(a)	Relay type	FTR-K1	: FTR-K1 series
(b)	Contact configuration		: 1 form A (SPST-NO) : 1 form C (SPDT)
(c)	Coil type	K	: Standard type (400mW) / Flux proof
(d)	Coil rated voltage	012	: 5 110VDC Coil rating table at page 3
(e)	Contact material	T W	: AgSnO₂ (1 form A, TV-5 contact) : AgSnO₂ (1form C, TV-5 contact) (make contact only)
(f)	Special type	Nil BG	: Standard type (without gold plate) : Gold plated contact
(g)	Option	GW	: Comply with GWEPT (IEC/EN 60695-2-11)

Actual marking does not carry the type name: "FTR" and option: "BG" E.g.: Ordering code: FTR-K1CK012W Actual marking: K1CK012W

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■ Specifications

Item		= Specificati				
Construction Single	Item			FTR-K1 AK () T	FTR-K1 CK () W	Remarks / conditions
Material Ag\$nO	1	Configuration		1 form A 1 form C		
Resistance	data	Construction		Single		
Contact rating	Material			AgSnO₂		
Max. carrying current 80A, 2 50VAC		Resistance		Max. 100m0hm at 1A, 6VDC		Initial
Max. inrush current 80A, 250VAC Max. switching yoltage 440VAC / 300VDC Max. switching power 4,000VA / 384W Min. switching load "1 100mA, 5VDC 400mW (430mW at 48V coil, 420mW at 60V/110V coil) 0 0 0 0 0 0 0 0 0		Contact rating		16A, 250VAC / 24VDC		Resistive
Max. switching voltage		Max. carrying current		20A		
Max. switching Dower Min. switching Dod *1 100mA SVDC 100mA SVDC		Max. inrush current		80A, 250VAC		
Min. switching load '1 100mA, SVDC		Max. switching voltage		440VAC / 300VDC		
At Each power (20°C) 400mW (430mW at 48V coil, 420mW at 60V/110V coil) Operate power (20°C) 196mW (211mW at 48V coil, 206mW at 60V/110V coil) Operating temperature range -40°C ~ +85°C No frost Mina Department Mina 15ms without bounce Release Max. 5ms without bounce, no diode Life Mechanical Min. 100 x 10° operations Without bounce, no diode Electrical AC contact rating Min. 100 x 10° ops. with no. 50 x 10° ops. without bounce, no diode Lise Lectrical AC contact rating Min. 100 x 10° ops. poly perations Insulation resistance Min. 100 x 10° ops. with no. 50 x 10° ops. Min. 25 x 10° ops. with no. 50° ops. Min. 25 x 10° ops. with no. 50° ops. with no. 50° ops. Min. 25 x 10° ops. with no. 50° ops. Min. 25 x 10° ops. with no. 50° ops. with no. 50° ops. with no. 50° ops. with n		Max. switching power		4,000VA / 384W		
Poperate power 20°C 196mW 211mW at 48V coil, 206mW at 60V/110V coil) 196mW 211mW at 48V coil, 206mW at 60V/110V coil) 206mW at 60V/11						
Total Timing T	Coil	Rated power (20)°C)			
Timing data Release		Operate power (20°C)				
data Release Max. 5ms without bounce, no diode Life Life Life Life Life Life Life Life		Operating temperature range		-40°C ~ +85°C		No frost
Mechanical		Operate		Max. 15ms		without bounce
Electrical AC contact rating Min. 100 x 10³ ops. Min. 50 x 10³ ops. DC contact rating Min. 100 x 10³ ops. Min. 30 x 10³ ops. Peak inrush Min. 10 x 10³ ops. Min. 25 x 10³ ops. Lamp (UL TV-5) Min. 25 x 10³ ops. Min. 25 x 10³ ops. Insulation resistance Min. 1000MΩ at 500VDC Initial Insulation resistance Open contacts 1000VAC (50/60Hz), 1 minute Surge strength Coil to contacts 10,000V / 1.2 x 50µs standard wave Clearance 10mm Creepage 10mm EN61810-1, VDE0435 Pollution 3 Material group III a Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Misoperation ≥1us 10 to 55 to 10Hz single amplitude 0.35mm Endurance Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Misoperation ≥1us Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g	data	Release		Max.	5ms	without bounce, no diode
DC contact rating Min. 100 x 10³ ops. Min. 30 x 10³ ops. Peak inrush Min. 10 x 10³ ops. Min. 25 x 10³ ops. Lamp (UL TV-5) Min. 25 x 10³ ops. Min. 25 x 10³ ops. Insulation Insulation resistance Min. 1000MQ at 500VDC Initial Dielectric strength Coil contacts 1000VAC (50/60Hz), 1 minute Surge strength Coil to contacts 10,000V / 1.2 x 50µs standard wave Clearance 10mm Creepage 10mm EN61810-1, VDE0435 Voltage Pollution 3	Life	Mechanical		Min. 20 x 10 ⁶ operations		
Insulation Peak inrush Min. 10 x 10³ ops. (only make contact) at 85°C, VDE#0435 (80A 250VAC) Insulation Insulation resistance Min. 25 x 10³ ops. (only make contact) Min. 25 x 10³ ops. (only make contact) Dielectric strength Open contacts 1000VAC (50/60Hz), 1 minute Initial Surge strength Coil to contacts 10,000V / 1.2 x 50µs standard wave Clearance Clearance 10mm Creepage 10mm EN61810-1, VDE0435 Voltage 250V Pollution 3 Material group Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Misoperation ≥1us Endurance 10 to 55 to 10Hz single amplitude 0.75mm Shock resistance Misoperation ≥1us Endurance Min. 100m/s² (11 ± 1ms) Min. 100m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g		Electrical	AC contact rating	Min. 100×10^3 ops.	Min. 50 x 10 ³ ops.	
$ \begin{array}{ c c c c } \hline Lamp (UL TV-5) & Min. 25 \times 10^3 ops. & Min. 25 \times 10^3 ops. \\ \hline Lamp (UL TV-5) & Min. 25 \times 10^3 ops. & Min. 25 \times 10^3 ops. \\ \hline Lamp (UL TV-5) & Min. 25 \times 10^3 ops. & Min. 25 \times 10^3 ops. \\ \hline Lamp (UL TV-5) & Min. 25 \times 10^3 ops. & Min. 25 \times 10^3 ops. \\ \hline Lamp (UL TV-5) & Min. 25 \times 10^3 ops. & Min. 25 \times 10^3 ops. \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000M\Omega at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (UL TV-5) & Min. 1000MO at 500VDC & Initial contact \\ \hline Lamp (U$			DC contact rating	Min. 100×10^3 ops.	Min. 30 x 10 ³ ops.	
Insulation resistant Insulation resistant Insulation resistant Insulation resistant Insulation resistant Open contacts 1000VAC (50/60Hz), 1 minute Insulation resistant Oil contact S000VAC (50/60Hz), 1 minute Insulation resistant Insulation resistance Insulation resi			Peak inrush	Min. 10 x 10 ³ ops. (only make contact)	at 85°C, VDE#0435 (80A 250VAC)
tion Dielectric strength Open contacts 1000VAC (50/60Hz), 1 minute Surge strength Coil contacts 10,000V / 1.2 x 50µs standard wave Clearance 10mm Creepage 10mm EN61810-1, VDE0435 Voltage 250V Pollution 3 Material group III a C / 250 (reference voltage) (VDE0110b) Other Wibration resistance Misoperation ≥1us 10 to 55 to 10Hz single amplitude 0.35mm Endurance 10 to 55 to 10Hz single amplitude 0.75mm Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g			Lamp (UL TV-5)	Min. 25 x 10 ³ ops.		
Strength Coil contact Coil contact Surge strength Coil to contacts 10,000V / 1.2 x 50µs standard wave Clearance Creepage EN61810-1, VDE0435 Pollution Material group Category C/ 250 (reference voltage) (VDE0110b) Other Vibration resistance Endurance Shock resistance Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 10,000V / 1.2 x 50µs standard wave 10mm 250V Voltage 250V VOLE0110b) Other Vibration resistance Endurance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g	1	Insulation resist	ance	Min. $1000M\Omega$ at $500VDC$		Initial
Surge strength Coil to contacts 10,000V / 1.2 x 50µs standard wave	tion		Open contacts	1000VAC (50/60Hz), 1 minute		
Clearance Creepage EN61810-1, VDE0435 Pollution Atterial group Other Vibration resistance Endurance Shock resistance Misoperation ≥1us Endurance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 10mm 10mm 10mm 10mm 250V Voltage 250V Pollution 3 Material group Ill a Category C / 250 (reference voltage) (VDE0110b) 10 to 55 to 10Hz single amplitude 0.35mm Endurance Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms)			Coil contact	5000VAC (50/60Hz), 1 minute		
CreepageEN61810-1, VDE0435Voltage250VPollution3Material groupIII aCategoryC / 250 (reference voltage) (VDE0110b)Other tanceMisoperation ≥1us Endurance10 to 55 to 10Hz single amplitude 0.35mm EnduranceShock resistanceMisoperation ≥1us EnduranceMin. 100m/s² (11 ± 1ms) Min. 1,000m/s² (6 ± 1ms)Dimensions / weight12.7 x 29.0 x 15.7 mm / approx. 13g		Surge strength Coil to contacts		10,000V / 1.2 x 50μs standard wave		
EN61810-1, VDE0435 Pollution Material group Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Hisoperation ≥1us Endurance Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g		Clearance		10mm		
VDE0435 Pollution 3 Material group III a Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Endurance Shock resistance Misoperation ≥1us Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g		Creepage		10mm		
Material group III a Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Endurance 10 to 55 to 10Hz single amplitude 0.35mm Endurance 10 to 55 to 10Hz single amplitude 0.75mm Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g			Voltage	250V		
Category C / 250 (reference voltage) (VDE0110b) Other Vibration resistance Endurance Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight C / 250 (reference voltage) (VDE0110b) Misoperation ≥1us Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms)		VDE0435	Pollution	3		
Other Vibration resistance $10 \text{ to } 55 \text{ to } 10 \text{Hz single amplitude } 0.35 \text{mm}$ Endurance $10 \text{ to } 55 \text{ to } 10 \text{Hz single amplitude } 0.75 \text{mm}$ Shock resistance $10 \text{ to } 55 \text{ to } 10 \text{Hz single amplitude } 0.75 \text{mm}$ Misoperation $\ge 1 \text{ us}$ $10 \text{ to } 55 \text{ to } 10 \text{Hz single amplitude } 0.75 \text{mm}$ Min. 100m/s^2 ($11 \pm 1 \text{ms}$) Endurance $10 \text{ to } 55 \text{ to } 10 \text{Hz single amplitude } 0.75 \text{mm}$ Min. 100m/s^2 ($11 \pm 1 \text{ms}$) Dimensions / weight $12.7 \times 29.0 \times 15.7 \text{ mm}$ / approx. 13 g			Material group	III a		
tance Endurance 10 to 55 to 10Hz single amplitude 0.75mm Shock resistance Misoperation ≥1us Min. 100m/s² (11 ± 1ms) Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g			Category	C / 250 (reference voltage) (VDE0110b)		
Shock resistance Misoperation ≥ 1 us Min. 100 m/s² (11 ± 1 ms)	Other	1	Misoperation ≥1us			
tance Endurance Min. 1,000m/s² (6 ± 1ms) Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g			Endurance			
Dimensions / weight 12.7 x 29.0 x 15.7 mm / approx. 13g			Misoperation ≥1us	Min. 100m/s² (11 ± 1ms)		
		tance	Endurance	Min. 1,000m/s² (6 ± 1ms)		
Sealing Flux proof, RTII		Dimensions / weight		12.7 x 29.0 x 15.7 mm / approx. 13g		
		Sealing		Flux proof, RTII		

Need to consider the heat from PCB when max. current is more than 10A.
*1: Minimum switching loads mentioned above are all in the constant of Minimum switching loads mentioned above are reference values. Please perform the confirmation test with actual load before production since reference values may vary according to switching frequencies, environmental contions

■ Coil Data

Coil code	Rated Coil Voltage (VDC)	Coil Resistance +/-10% (Ω)	Must Operate Voltage* (VDC)	Must Release Voltage* (VDC)	Rated Power (mW)	
005	5	62	3.5	0.5		
006	6	90	4.2	0.6		
009	9	202	6.3	0.9		
012	12	360	8.4	1.2	/00	
018	18	810	12.6	1.8	400	
022	22	1,210	15.4	2.2		
024	24	1,440	16.8	2.4		
028	28	1,960	19.6	2.8		
048	48	5,360	33.6	4.8	430	
060	60	8,570	42.0	6.0	/20	
110	110	28,800	77.0	11.0	420	

Note: All values in the table are valid at 20°C and zero contact current, unless otherwise specified.

Note: Please use at rated coil voltage. Please refer to characteristic data and set up adequate voltage in case of use at over voltage.

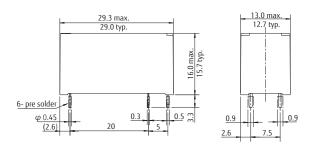
■ Safety Standards

Туре	Compliance	Contact rating			
		1A	1C		
UL	UL 508	Flammability: UL 94-V0 (plastics)			
	E63614	FTR-K1AK () T(-GW) 16A, 24VDC (resistive) 16A, 277VAC (resistive)	FTR-K1CK () W(-GW) 16A, 277VAC/24VDC (resistive)		
CSA	C22.2 No. 14	20A, 277VAC (resistive) 20A, 277VAC (resistive) 1 hp 277VAC, 1/2hp 125VAC TV-5, 120VAC 25,000 cycles Pilot duty: A300	20A, 277VAC (resistive) 1 hp 277VAC, 1/2hp 125VAC 1/8 hp, 125VAC TV-5, 250VAC, 25,000 cycles (make contact) Pilot duty: B300		
	LR 40304		FTR-K1CK () W(-GW) 16A, 277VAC/24VDC (resistive) 20A, 277VAC (resistive) 1hp 277VAC, 1/2hp 125VAC 1/8hp 125VAC TV-5, 120VAC (make contact) Pilot duty: B300		
VDE	IEC/EN61810-1 EN60065 clause 14.6.1 (1a only) EN60335-1 clause 15.3; 16.3; 29.1; 29.2; 29.3	FTR-K1AK () T(-GW) 16A, 250VAC (cosφ=1), 85°C 3.5A, 250VAC (cosφ=0.4), 85°C 16A, 24VDC (0ms), 85°C	FTR-K1CK () W(-GW) 16A, 250VAC (cosφ=1), 85°C 3.5A, 250VAC (cosφ=0.4), 85°C 16A, 24VDC (0ms), 85°C		
	EN60730-1 clause 12.2; 13.2; 20.1; 20.2; 20.3	5A/80A, 250VAC 10,000 times, 85°C			
CQC	GB/T21711.1 GB15092.1 12002083788	FTR-K1AK () T 12A, 240VAC 72LRA/12FLA 240VAC	FTR-K1CK () W 16A, 250VAC		

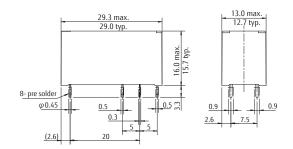
^{* :} Specified operate values are valid for pulse wave voltage.

■ Dimensions

• Dimensions (FTR-K1AK()T)

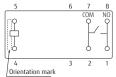


• Dimensions (FTR-K1CK()W)



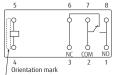
^{*}Dimensions of the terminals do not include thickness of pre-solder.

 Schematics (BOTTOM VIEW) (FTR-K1AK()T)



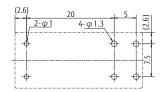
Connect terminal #1 and #8 on the PC board

 Schematics (BOTTOM VIEW) (FTR-K1CK()W)

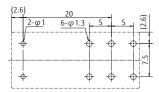


Connect terminal #1 and #8 on the PC board

 PC Board Mounting Hole Layout (BOTTOM VIEW) (FTR-K1AK()T)



 PC Board Mounting Hole Layout (BOTTOM VIEW) (FTR-K1CK()W)

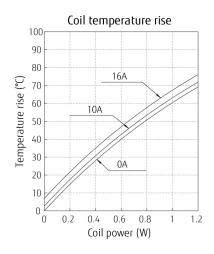


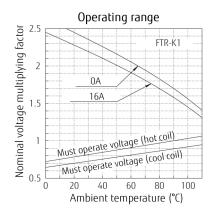
Tolerance of PC board mounting hole layout : ± 0.1 unless otherwise specified.

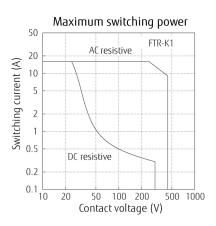
(): Reference value Unit: mm

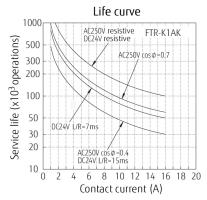
■ Characteristic Data (Reference)

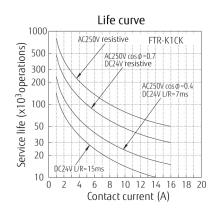
* Characteristic data is not guaranteed value but measured values of samples from production line.

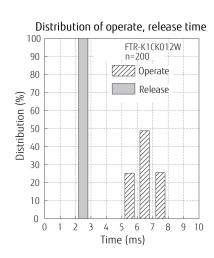


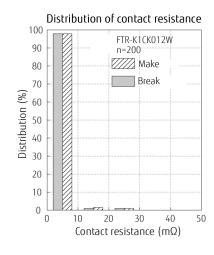


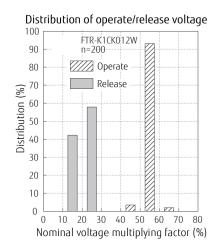












CAUTIONS

- All values mentioned in this datasheet are provided under ideal conditions. Please perform the confirmation test before actual use.
- Reflow soldering is prohibited.
- Do not use relays in the atmosphere with sulfide gas, chloride gas or nitric oxide. Contact resistance may increase.
- Do not use silicon or silicon-containing product or materials near relays. It may cause contact failure.

GENERAL INFORMATION

1. ROHS Compliance

• All relays produced by Fujitsu Components are compliant with RoHS directive 2011/65/EU, including commission delegated directive 2015/863.

2. Recommended lead free solder condition

- Lead free solder plating on relay terminals is Sn-3.0Ag-0.5Cu, unless otherwise specified. This material has been verified to be compatible with PbSn assembly process.
- Recommended solder for assembly: Sn-3.0Ag-0.5Cu.

Flow Solder Condition:

Pre-Heating: maximum 120°C

within 90 sec.

Soldering: dip within 5 sec. at 255°C±5°C solder bath

Relay must be cooled by air immediately after soldering

Solder by Soldering Iron:

Soldering Iron: 30-60W

Temperature: maximum 340-360°C Duration: maximum 3 sec.

We highly recommend that you confirm your actual solder conditions

3. Moisture Sensitivity

• Moisture Sensitivity Level standard is not applicable to electromechanical relays, unless otherwise indicated.

4. Tin Whiskers

• Dipped SnAgCu solder is known as presenting a low risk to tin whisker development. No considerable length whisker was found by our in house test.

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Когеа

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