


# FL-15F

# General Purpose Relay

 **us** E173485  
32×27.4×19.3



- High power&low cost
- 30A switching capability
- Less than 1W coil power
- Open sealed type available
- Class B/F available
- Conform to RoHS,ELV directive

## CONTACT DATA

Contact Form	1H/1D/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS Φ=1)
Contact Ratings	1H: 25A(30A) 240VAC/20A 28VDC 1D: 15A 240VAC/10A 28VDC 1Z: 20A/10A 240VAC/28VDC
Minimum load	500mA 5VDC
Max Switching Voltage	250VAC/30VDC
Max Switching Current	30A
Max Switching Power	7200VA/560W
Contact Resistance	100mΩ Max at 6VDC 1A
Electrical	100,000 Operations(at30Operations/minute)
Mechanical	10,000,000 Operations(at300Operations/minute)

## CHARACTERISTICS DATA

Insulation Resistance	100MΩ Min at 500VDC
Between Open Contacts	1500VAC(for one minute)
Between Contacts and Coil	1500VAC/2500VAC (for one minute)
Operate Time	15ms
Release Time	10ms
Temperature Range	-40℃to+70℃ (Class F: 85℃)
Shock Resistance	Operating Extremes: 10G
	Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000operations/hr Electrical: 1,800operations/hr
Humidity	40-85%
Weight	Approx 36g

## COIL DATA

at 20℃

Coil Power 0.93W

Nominal Voltage (VDC)	Rated Current (mA)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
5	186	3.75	0.5	27
6	155	4.5	0.6	39
9	103	6.75	0.9	87
12	77.5	9	1.2	155
18	52	13.5	1.8	350
24	39	18	2.4	620
48	19	36	4.8	2480
110	9	82.5	11	13010

## APPROVED STANDARDS

UL & cUL	NO: 25A 240VAC 25A 28VDC NC: 15A 240VAC 15A 28VDC
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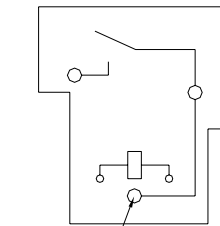
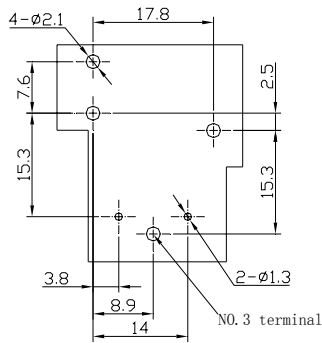
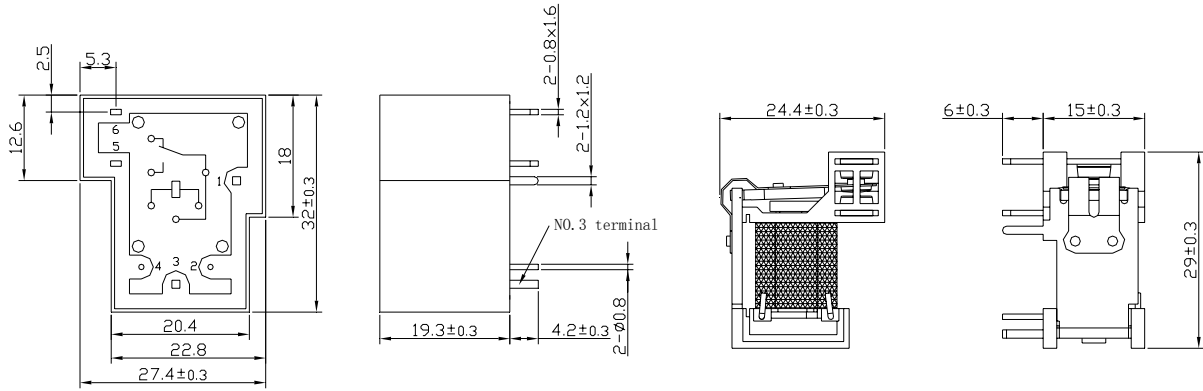
## OPDERING CODE

<u>FL-15F</u>	—	<u>S</u>	—	<u>Z</u>	<u>(TBF-1)</u>	<u>N</u>	/	<u>12VDC</u>
1		2		3	4	5		6

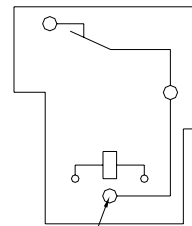
- Relay Model
- Sealed  
K: Open Type
- Contact Form  
H: Form A, Z: Form C, D: Form B
- Insulated Level  
TBF-1: Class F  
Nil: Standard
- N: Without NO.3 Terminal,  
Between Contacts and Coil 1500VAC  
Nil: With NO.3 Terminal,  
Between Contacts and Coil 1500VAC  
WT: With NO.3 Terminal,  
Between Contacts and Coil 2500VAC  
NT: Without NO.3 Terminal,  
Between Contacts and Coil 2500VAC
- Coil Nominal Voltage  
5,6,9,12,18,24,48,110VDC



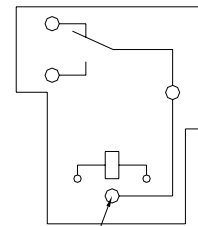
## OUTLINE DIMENSIONS, WIRING DIAGRAM AND LAYOUT



NO. 3 terminal  
1A (Type N: Without No. 3 terminal)



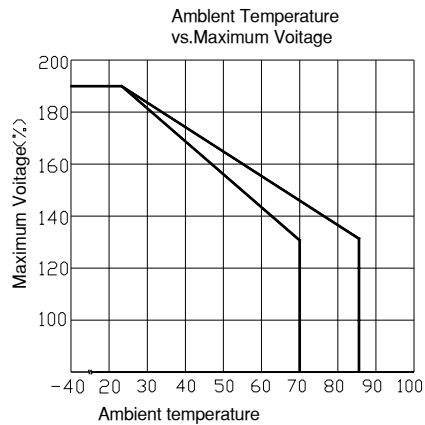
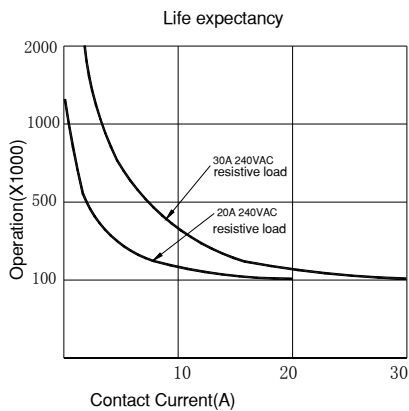
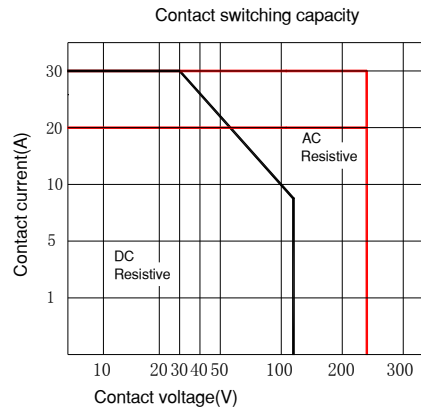
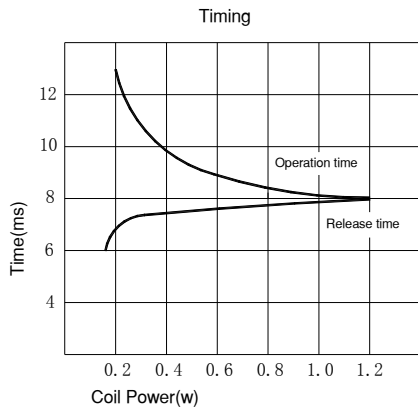
NO. 3 terminal  
1B (Type N: Without No. 3 terminal)



NO. 3 terminal  
1C (Type N: Without No. 3 terminal)

Layout

## ENGINEERING DATA



FLOURISHING RELAY

The specifications are for the customer's reference and are subject to change without notice.