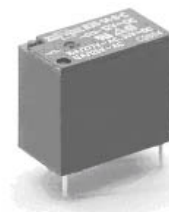


FEATURES

- UL/CSA/TUV Approved.
- Class B insulation system approved as standard.
- High dielectric strength 2500V between coil and contact and 1000V between contacts.
- High ratings, 12A 125VAC, 10A 250VAC/30VDC.
- High sensitivity type for low coil consumption is available.
- Special design for household appliances.:
Flux free and sealed type available.



ORDERING INFORMATION

835 **N** **L** - **1A** - **B** - **C** **XXX**
1 **2** **3** **4** **5** **6** **7**

- | | | |
|---------------------------------|----------------------------------|----------------|
| 1 Type | 4 Contact form 1A-SPNO | 6 Cover type |
| 2 Blank-Standard type | 1AB- SPNO Contact material AgCdO | C-Flux tight |
| N-High sensitivity type | (only for 835L&835NL) | S- Sealed |
| 3 Blank-High power (10A/240VAC) | 5 Insulation system | 7 Special mark |
| L-Standard rating (8A/240VAC) | Blank-Standard type | |
| | B-Class B F-Class F | |

TYPE LIST

(PCB terminal)	Contact form	Insulation system	Designation (provided with)	
			Flux tight	Plastic sealed
835	1A (SPNO)	-----	835-1A-C	835-1A-S
		Class B	835-1A-B-C	835-1A-B-S
835L	1A (SPNO)	-----	835L-1AB-C	835L-1AB-S
		Class F	835L-1AB-F-C	835L-1AB-F-S
835NL	1A (SPNO)	-----	835NL-1A-C	835NL-1A-S
		Class B	835NL-1A-B-C	835NL-1A-B-S
		Class F	835NL-1A-F-C	835NL-1A-F-S

CONTACT RATING

Resistive Load	835	835L	835NL
	10A 240VAC 12A 120VAC (30,000 ops)	8A 240VAC	5A 240VAC 8A 240VAC (30,000 ops)

COIL DATA (835,835L)

Rated voltage (V)	Rated current $\pm 10^\circ$ at 25° (mA)	Coil resistance $\pm 10^\circ$ at 25° (Ω)	Max. continuous voltage at 25°	Pickup voltage (Max) at 25°	Dropout voltage (Min) at 25°	Power consumption at rated voltage
3	150.0	20	130% of rated voltage	75% of rated voltage	5% of rated voltage	approx. 0.45 W
5	90.9	55				
6	75.0	80				
9	50.0	180				
12	37.5	320				
18	25.0	720				
24	18.8	1280				

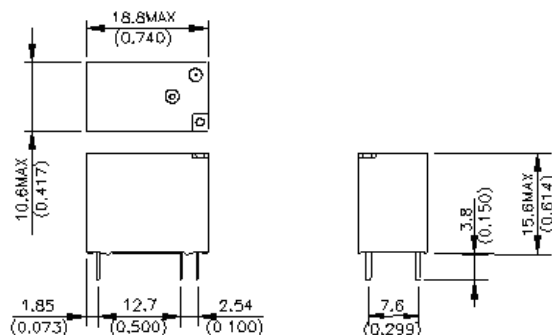
SPECIFICATION

Contact resistance	100mΩMax. (initial value)
Operate time	10 ms Max.
Release time	7 ms Max. (835 –5ms Max.)
Insulation resistance	100 MO Min.(DC 500V)
Dielectric strength	Between contact and coil :AC 2500 V , 50/60 Hz 1 minute. Between open contact :AC 750 V , 50/60 Hz 1 minute. (835 1000V)
Vibration resistance	Damage limits & Operating extremes 10 ~ 50 Hz , amplitude 1.0 mm
Shock resistance	Damage limits:100G, Operating extremes:10G
Life expectancy for mechanical	10,000,000 operations (frequency 18,000 operations/hr)
Life expectancy for electrical	100,000 operations (frequency 900 operations/hr)
Operating temperature	- 40° + 85° (no freezing)
Weight	Approx. 6 g

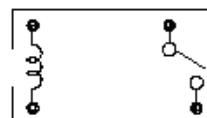
HIGH SENSITIVITY TYPE COIL DATA (835NL)

Rated voltage (V)	Rated current ±10° at 25° (mA)	Coil resistance ±10° at 25° (Ω)	Max. continuous voltage at 25°	Pickup voltage (Max) at 25°	Dropout voltage (Min) at 25°	Power consumption at rated voltage
3	66.7	45	130° of rated voltage	80° of rated voltage	5° of rated voltage	approx. 0.2W
5	40.0	125				
6	33.3	180				
9	22.2	405				
12	16.7	720				
18	11.1	1620				
24	8.3	2880				

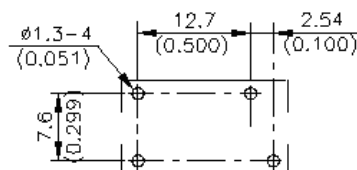
OUTLINE DIMENSIONS



WIRING DIAGRAM



PCB LAYOUT



SAFETY APPROVAL RATING

	UL CUR	CSA	TUV	VDE
835	12A/125VAC 10A/277VAC 10A/30VDC /TV-5	12A/125VAC 10A/277VAC 10A/30VDC	12A/125V~AC 10A/277V~AC 10A/30VDC	10A/250VAC T85 4A/400VAC T85
835L	8A/277VAC 8A/250VAC 8A/30VDC	----- ----- -----	----- ----- -----	PENDING

835



SAFETY APPROVAL RATING

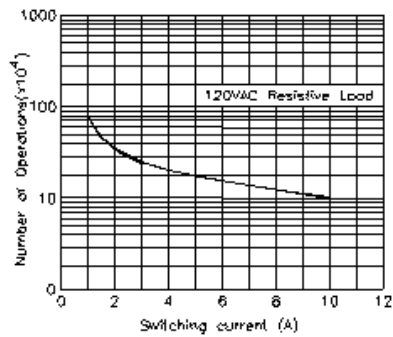
	UL CUR	CSA	TUV	VDE
835NL	8A/277VAC	-----	-----	8A/250VAC T85
	8A/250VAC	-----	-----	4A/400VDC T85
	8A/30VDC	-----	-----	

SAFETY APPROVAL

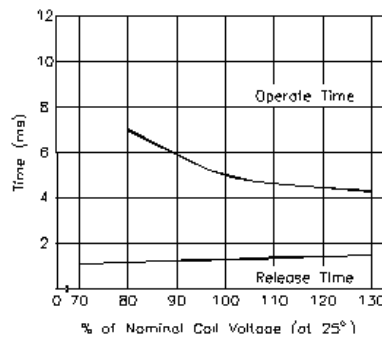
Certified	UL CUR	CSA	TUV	VDE
835 File No.	E74321	LR90143	R9552647	134476UG
835L File No.	E74321	-----	-----	PENDING
835NL File No.	E74321			134476UG

ENGINEERING DATA

Life expectancy



Operate time / Release time



Coil temp. rise

