

30 Amp Power Relay PC673



FEATURES

- 30 Amp 277 VAC Rating for SPST-NO
- 25 Amp 277 VAC Rating for DPST-NO
- AC or DC Coil Options
- Dual Contacts-TBar Construction Designed For Inductive Loads with High Inrush Current
- Coils Designed to Maintain Contact Pressure with Voltage Down to 50% of the Rated Coil Voltages
- Test Button Option
- Broad Range AC Coils Designed for 50/60 Hz
 - 100 to 120 VAC Operation
 - 200 to 240 VAC Operation
- Fast-On Terminals and Screw Terminals Versions Available
- 4KV AC Dielectric Between Contacts and Coil
- Flame Resistant Plastic to UL94V-2
- RoHS Compliant
- Approved to UL508
- Class F Coil Wire

UL / CUL Ratings



Contact Form	SPST-NO 1 Form A	DPST-NO 2 Form A
Resistive (AC-1)	277 VAC, 30 A	277 VAC, 25 A
Inductive (AC-15)	3 HP, 240 VAC 1 1/2 HP, 120 VAC	
Max. Switching Power	8,310 VA	6,925 VA

CROSS REFERENCES

American Zettler: AZ2700
Example: AZ2700-2A-12D Crosses to PC637-2A-T-12D

Configurations		Quick-Connect 	Screw Terminals 	PCB Pins
No Bracket	SPST-NO	PC673-1A-T	-	-
	DPST-NO	PC673-2A-T	-	-
Flange Mounting	SPST-NO	PC673-1A-TF	PC673-1A-SF	-
	DPST-NO	PC673-2A-TF	PC673-2A-SF	-
DIN Rail	SPST-NO	PC673-1A-TD	PC673-1A-SD	-
	DPST-NO	PC673-2A-TD	PC673-2A-SD	-
PCB Mounting	SPST-NO	-	-	PC673-1A-P
	DPST-NO	-	-	PC673-2A-P

Omron: G7L
Example: G7L-1A-BJ Crosses to PC673-1A-SF-12D-T
Example: G7L-2A-P Crosses to PC673-1A-P-24A

Weidmuller: PWR
Example: PWR276548L Crosses to PC673-2A-SF-48A
Example: PWR173012L Crosses to PC673-1A-SF-12A

CONTACT DATA

Material	Ag Alloy (Silver Oxide)	
Initial Contact Resistance	50 mΩ max. @ 6 V, 1A	
Max. Switching Voltage	150 VDC, 277 VAC	
Service Life	Mechanical	5 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

ORDERING INFORMATION

Example:	PC673	-2A	- TF	- 220A	T
Model:	PC673				
Contact Form:	1A, 2A				
Case Type:	T: Terminals (0.250"); TD: Terminals and DIN Rail; TF: Terminals and Flange; P: PCB Pins; SF: Screw Terminals and Flange ⁽¹⁾ ; SD: Screw Terminals and DIN Rail ⁽¹⁾				
Coil Voltage:	XXXD: DC Coil 6, 12, 24, 48, 110, 220 XXXA: AC Coil 6, 12, 24, 48, 110(110-120), 220(220-240), 380, 400				
LED:	L: with LED (only for Screw terminal Versions)				
Test Button:	Nil: without Test Button; T: with Test Button				

(1) With Finger Guard Cover

Box Quantity: 80; Inner Box: 10

CHARACTERISTICS

Operate Time	30 ms Max
Release Time	30 ms Max
Insulation Resistance	500 MΩ min. at 500 VDC
Dielectric Strength	4,000 VAC 1 min. Between Coil and Contacts 2,000 VAC 1 min. Between Poles 2,000 VAC, 1 min. Between Open Contacts
Shock Resistance	10 G
Vibration Resistance	10-55 Hz Double-Amplitude: 1.5 mm
Power Consumption	DC Coil 1.9 W, AC Coil 1.7 VA to 2.5 VA
Agency Compliance	RoHS

CHARACTERISTICS CONT.

Terminal Strength	8N; 4N PC Type
Solderability	260°C for 5 seconds
Operating Temperature	-25°C to 60 °C
Relative Humidity	35% to 85% (at 30°C)
Weight	90 grams (Plug In) 120 grams (Screw In)

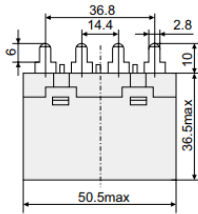
COIL DATA

Voltage Type	Coil Voltage		Resistance (Ohms ± 10%)	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Coil Power
	Rated	Max				
DC	6	6.6	18.9	4.5	0.9	1.9 W
	12	13.2	75	9	1.8	
	24	26.4	300	18	3.6	
	48	52.8	1,220	36	7.2	
	110	121	6,360	82.5	16.5	
	220	242	25,474	165	33	
AC	6	6.6	17	4.8	0.6	2.5 VA
	12	13.2	65	9.6	1.2	
	24	26.4	275	19.2	2.4	
	48	52.8	1,100	38.4	4.8	
	110 - 120	132	5,200	88	11	
	220 - 240	262	21,000	176	22	
	380	418	62,650	304	38	
	400	440	62,650	320	40	

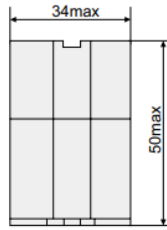
NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

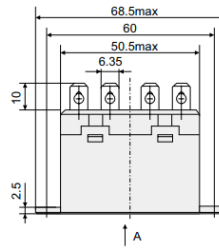
CASE TYPE Inches (mm)



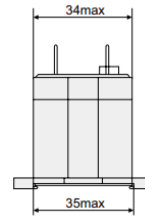
“p”
PC Terminal



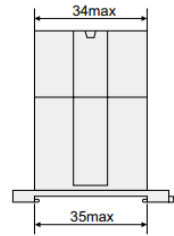
“SF”
Screw Terminal & Flange



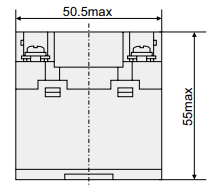
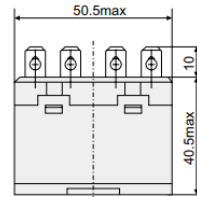
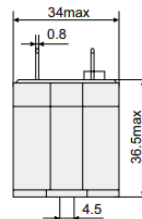
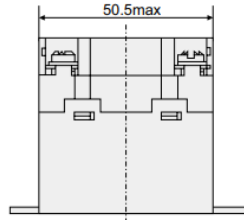
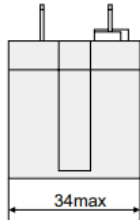
“TF”
Terminals & Flange



“TD”
Terminal & DIN Rail

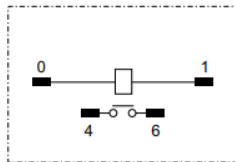


“SD”
Screw Terminal & DIN Rail

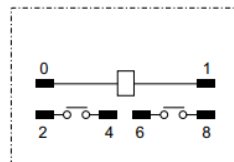


PC BOARD LAYOUT Inches (mm)

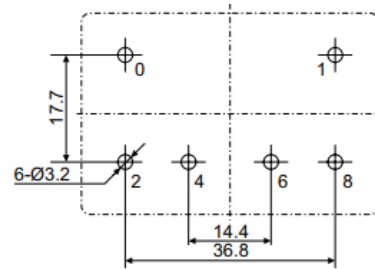
WIRE DIAGRAMS



1A



2A



“p”
PC Terminal
Top View

Reference Data

