



FEATURES

- Ignition Protected* | SAE J1171 | UL 1500 | ISO 8846
- Most Popular Automotive Relay
- 1A, 1C and 1U Contact Forms Available
- Contact Switching Capacity up to 240 Amps
- 80 Amps @ 14VDC Continuous Carrying Current
- Plain Case, Bracket or PCB Options
- Compatible with Socket SC795
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 240 A	Make 180 A
	Break 80 A	Break 60 A
Max Switching Power	1,120 W	
Max Switching Voltage	75 VDC	
Max Continuous Current	80 A @ 25°C	60 A @ 25°C
	50 A @ 85°C	38 A @ 85°C
Minimum Load	0.5A @ 12VDC	
Form 1U	2 x 25 A @ 14VDC	

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	2 msec Typical
Insulation Resistance	100 MΩ min @ 500VDC
Dielectric Strength	50 Hz 500V _{RMS} 1 min. Between Contact and Coil
	50 Hz 500V _{RMS} 1 min. Between Contacts
Shock Resistance	147 m/s ² 11 msec
Vibration Resistance	10 - 40 Hz Double Amplitude, 1.5mm
Terminal Strength	8 N, 4N (PC Type)
Solderability	260°C for 5 seconds
Power Consumption	1.8 W, 2.3 W, 2.6 W
Relative Humidity	85% at 40°C
Operating Temperature	-40°C to +125°C

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 120 A	Make 90 A
	Break 40 A	Break 30 A
Max Switching Power	1,120 W	
Max Switching Voltage	75 VDC	
Max Continuous Current	30 A @ 25°C	25 A @ 25°C
	20 A @ 85°C	15 A @ 85°C
Max Continuous Current 24W ⁽¹⁾	45 A @ 25°C	35 A @ 25°C
	33.75 A @ 85°C	26.25 A @ 85°C
Minimum Load	0.5A @ 12VDC	
Form 1U	2 x 15 A @ 24VDC	

(1) Maximum Continuous Current utilizing the High Performance >0.8 mm Contact Gap and 2.6 W Coil for greater contact pressure

CONTACT DATA

Material	AgSnO ₂	
Initial Contact Resistance	≤ 20mΩ initial	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

CHARACTERISTICS CONTINUED

Storage Temperature	-40°C to +155°C
Weight	47 grams
Flammability	UL-94-VO Meets FMVSS 302

*Sealed "S" enclosures with 6, 9, 12 or 24 VDC, 1.8 and 2.3 Watt Coils are Ignition Protected

ORDERING INFORMATION

Example: PC795 -1C -C -12 S -D -X

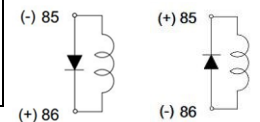
Model:	PC795
Contact Form:	1A, 1C or 1U (1 Form A with 2 #87 Terminals)
Case Style:	C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket P: PCB; P1: PCB w/Plastic Bracket; P2: PCB w/Metal Bracket
Coil Voltage:	6, 12, 24, 24W (Form 1A Only, >.8mm Contact Gap)
Enclosure:	C: Dust Cover, S: Sealed*, S1: Flux Tight ⁽²⁾
Coil Power:	Nil: 1.8W, 2.3: 2.3W, 2.6: 2.6W (1.8W is standard)
Parallel Component:	Nil: None; D: Diode; D1: Reverse Diode; R: Resistor
Terminal Plating	N: Nickel Plated Terminals Standard on all Plug in Models; Nil: PC Pin Version
RoHS Compliant:	-X

See SC795 for available sockets

Coil Options

Resistor Values:
6V - 180 ohm
12V - 680 ohm
24V - 2,700 ohm
Diode: 1N4005

Orientation of Optional Diode
Diode (D) Reverse Diode (D1)



(2) Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash

Box Quantity: 400; Inner Box: 100

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COIL DATA

Coil Voltage (VDC)		Must Operate Voltage Max (VDC)	Must Release Voltage Min (VDC)	Resistor Values (Ohms ± 10%)	Coil Resistance Without Resistor (Ohms ± 10%)			Coil Resistance With Resistor (Ohms ± 10%)			Rated Current Without Resistor (mA)			Rated Current With Resistor (mA)		
Rated	Max				1.8W	2.3W	2.6W	1.8W	2.3W	2.6W	1.8W	2.3W	2.6W	1.8W	2.3W	2.6W
6	7.8	3.9	0.6	180	20	15.6	13.8	18	14.4	12.8	300	385	435	333	417	469
12	15.6	7.8	1.2	680	80	62.6	55.4	71.6	57.3	51.2	150	192	217	168	209	234
24	31.2	15.6	2.4	2700	320	250.4	221.5	286.1	229.1	204.7	75	96	108	84	105	117
48	62.4	31.2	4.8	10000	1280	1001.6	886	1134.8	910.4	813.9	38	48	54	42	53	59

NOTES:

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

DIMENSIONS (mm / inches)

