

85W 100Amp Series



PRODUCT DESCRIPTIONS

The 85W Series attains high carry current of 100A (pulse) at single contact. This series controls stable operation under super high-load conditions to satisfy a broad range of industry requirements, such as IG-BT test, FET test and DC switching for solar system.

SPECIFICATIONS

85W 100Amp Series		85W-1A□0E0		High Power / Current
Parameters	Units	1 Form A		Test Conditions
Coil Specifications				
Nominal Coil Voltage	VDC	12.0	24.0	
Coil Resistance	Ω	35	135	±10% @ 20°C
Operate Voltage	VDC Max	10.2	20.4	15°C to 35°C
Release Voltage	VDC Min	1.2	2.4	15°C to 35°C
Contact Ratings				
Switching Voltage	Volts	240		Max DC/Peak AC resistance
Switching Current	Amps	50		Max DC/Peak AC resistance
Carry Current	Amps	50		Max DC/Peak AC resistance
Carry Current (Pulse)	Amps	100		Max DC/Peak AC resistance
Contact Rating	Watts	3600		Max DC/Peak AC Resist
Life Expectancy	x10 ⁶ Cycle	1000		@ 1V 10mh
Contact Resistance	mΩ	20		Max initial @ operate voltage
Contact Resistance Stability	mΩ	2.0		Max initial @ operate voltage
Relay Specifications				
Insulation Resistance	Ω Min	10 ¹⁰		Between all isolated pins @ 100V 20°C 40%RH
Dielectric Strength	VDC Min	2500		Between contacts
	VDC Min	2500		Contacts to coil
Operate Time (No Bounce)	msec Max	80.0		@ nominal coil voltage
Release Time	msec Max	80.0		1Hz square wave Diode suppression
Environmental Ratings				
Measurement Reference Conditions		Storage temp: -20°C to +80°C		
Temp: 15°C to 35°C		Operate temp: -10°C to +60°C		
Humidity: 25% to 75%RH		Vibration: 20G's to 2000Hz		
Atmospheric Pressure: 860 to 1060hpa		Shock: 50G's		

Ordering Code:

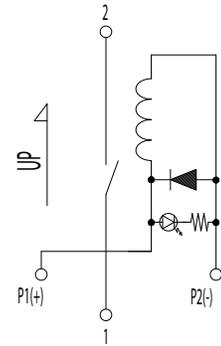
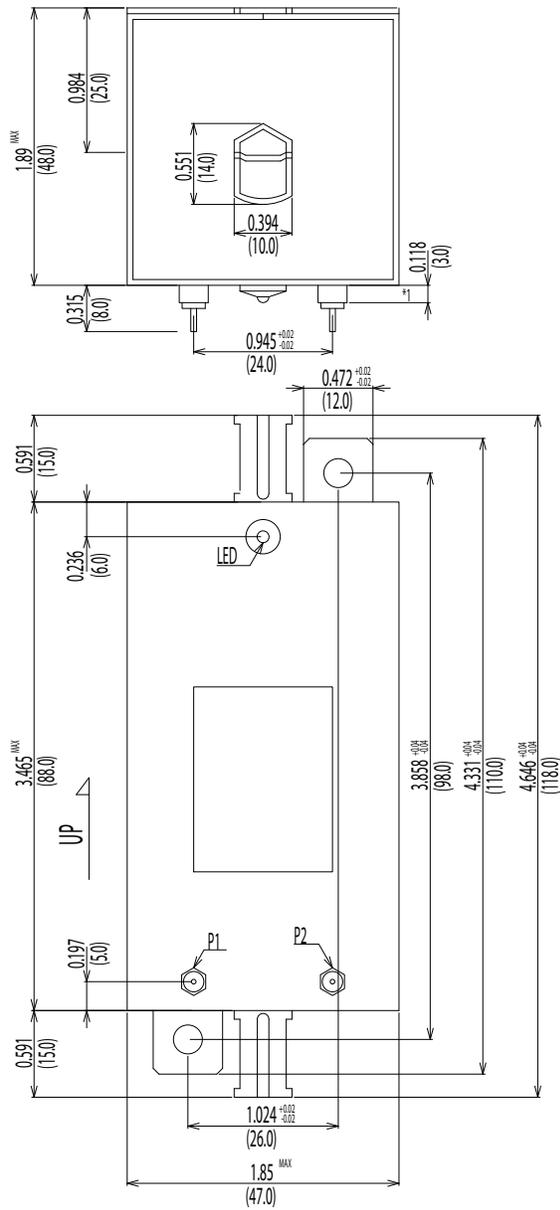
85W-1A□0E0

□=2 (12.0VDC), 3 (24.0VDC)

Dimensions All Dimensions are inches (mm)

Schematic <Top View>

85W-1A□0E0



Mercury Relay

Note: Hg wet contacts must be mounted within 30° of vertical plane.