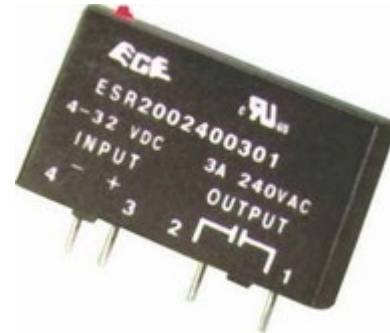


PCB MOUNT

ESR20/ESR21 SERIES

FEATURES

- PCB Mount; Single in Line Package.
- Optically Isolated.
- Input LED Indicator.
- High dv/dt and High Blocking Voltage.
- Low Input power Consumption, TTL and CMOS Compatible.
- Zero Voltage Turn-on, Zero Current Turn-off (minimizes EMI/RFI)
- High Surge Rating Allows Lamp and Motor Load Switching
- Built-in Snubber Network



UL APPROVAL:
UL E155181(R)

PART NUMBERING SYSTEM

ESR	20	0	240	03	00	
						+----- 00:Zero-on, Normal Open
						01:Random-on, Normal Open
						+----- Load Current:
						03:3Amps
						+----- Output Nominal Voltage:
						060:60VDC
						120:120VAC; 240:240VAC
						+----- Output Nominal Voltage Type:
						0:AC; 1:DC
						+----- Type Name:
						20:PCB Type with LED Indicator
						21:PCB Type without LED Indicator
						+--- Series Name: ESR

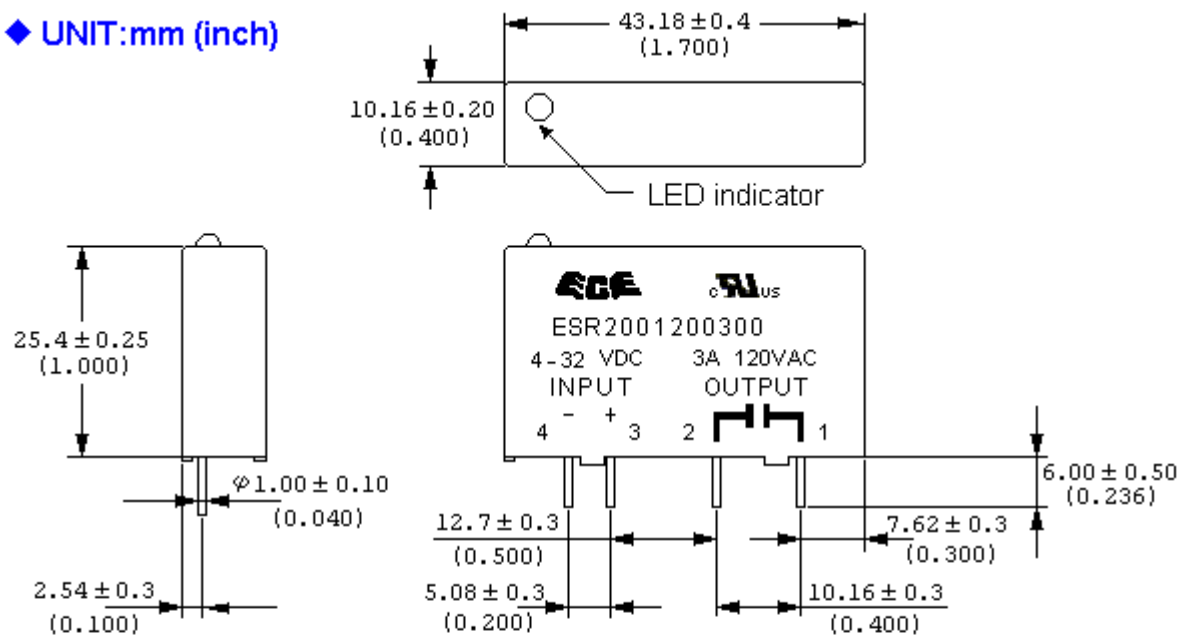
MOBICON
Electronic Components

SPECIFICATIONS

TYPES	ESR200				ESR210				ESR201	ESR211
	1200300	2400300	1200301	2400301	1200300	2400300	1200301	2400301	0600301	
DESCRIPTION										
🔌 INPUT CIRCUIT										
LED Indicate	YES				NO				YES	NO
Control Voltage Range	4-32 VDC				3-32 VDC				4-32 VDC	3-32 VDC
Max. Control Current	15mA				15mA				15mA	15mA
Min. Turn-off Voltage	1.5 VDC				1 VDC				1.5 VDC	1 VDC
Min. Input Impedance	2.0 KΩ				2.2 KΩ				2.0 KΩ	2.2 KΩ
🔌 OUTPUT CIRCUIT										
Load type	AC				AC				DC	
Max. Load Current	3 A (rms)				3 A (rms)				3 A (rms)	
Nominal Load Voltage (VAC)	120	240	120	240	120	240	120	240	60	
Load Voltage Range (VAC)	24-140	24-280	24-140	24-280	24-140	24-280	24-140	24-280	3-60	
Non-Repetitive Max. Peak Voltage (VAC)	400	600	400	600	400	600	400	600	60	
Non-Repetitive Max. Peak Current	80 A				80 A				5 A	
Max. Off-state Leakage Current	5 mA				5 mA				1.0 mA	
Max. On-state Voltage Drop	1.5 V				1.5 V				1.5 V	
Min. Load Current	50 mA				50 mA				10 mA	
Max. Off-state Slew Rate(dv/dt)	100 V/μs				100 V/μs					
Operating Frequency Range	47 Hz ~ 63 Hz				47 Hz ~ 63 Hz					
🔌 GENERAL CHARACTERISTICS										
Zero-on or Random-on	Z		R		Z		R		R	
Max. Turn-on Time (60Hz)	8.3 ms		100 μs		8.3 ms		100 μs		50 μs	
Max. Turn-off Time (60Hz)	8.3 ms		8.3 ms		8.3 ms		8.3 ms		100 μs	
Insulation Resistance	DC 500V 10 ⁸ Ω Min. (Between Input & Output, Input / Output & Case)									
Dielectric Strength	2.5K VAC (Between Input & Output)								3.5K VAC (Between Input & Output)	
Capacitance (Input to Output)	10pF Max. (Between Input & Output)									
Operating Temperature	-20 °C ~ +85 °C								-20 °C ~ +80 °C	
Storage Temperature	-40 °C ~ +100 °C									

DIMENSIONS

◆ UNIT:mm (inch)



◆ P.C.B. Layout (Top View)

