Schneider Electric/Legacy Electric Time Delay and Sensor Relays

841 Series

SPDT, 15 A



841 Relay

Description

Current sensing relay which allows the user to monitor the current of one circuit (1 to 8 A) and switch another circuit in case of an over current condition; all in a modular, Fingersafe™ (according to IEC 60529 IP rating) package.

Feature	Benefit
Current sensing adjustment knob	Sense anywhere from 10% to 100% of the rated sensing current
Input/ouput terminals	Accepts up to a 14 AWG Wire
Solid state circuitry	Used for precise sensing and timing control
Input/output indication	Shows status at a glance
DIN rail mountable	Mounts directly on a DIN Rail
Only 17.5 mm (0.69 in) wide	Ideal for tight spaces
Wide input range	Enabled to work with common AC voltages.

Input Voltage	Sensing Current Range (AC)	Timing Range	Contact Configuration	Output (A)	Standard Part Number
24 to 240 Vac	100 mA to 1 A	100 ms to 10 sec	SPDT	15 A	841CS1-UNI
24 to 240 Vac	200 mA to 2 A	100 ms to 10 sec	SPDT	15 A	841CS2-UNI
24 to 240 Vac	500 mA to 5 A	100 ms to 10 sec	SPDT	15 A	841CS5-UNI
24 to 240 Vac	800 mA to 8 A	100 ms to 10 sec	SPDT	15 A	841CS8-UNI

Part Number Explanation

841 CS 1 - UNI

Series:
841 = SPDT

Relay Style:
CS = Current Sensor

Sensing Range:
1 = 100 mA to 1 A
2 = 200 mA to 2 A
5 = 500 mA to 5 A
8 = 800 mA to 8 A

Nominal Input Voltage:
UNI = 24 to 240 Vac

Specifications

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Specifications

Part Number	841CS1-UNI	841CS2-UNI	841CS5-UNI	841CS8-UNI
Input Characteristics				
Input Voltage Range	24 to 240 Vac	24 to 240 Vac	24 to 240 Vac	24 to 240 Vac
Maximum Power Consumption	1.2 VA	1.2 VA	1.2 VA	1.2 VA
Output Characteristics				
Contact Configuration	SPDT	SPDT	SPDT	SPDT
Output Current Rating	15 A	15 A	15 A	15 A
Contact Material	Silver Alloy	Silver Alloy	Silver Alloy	Silver Alloy
Switching Capability	15A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 HP @ 120 Vac 1 HP @ 240 Vac Pilot Duty B300	15A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 HP @ 120 Vac 1 HP @ 240 Vac Pilot Duty B300	15A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 HP @ 120 Vac 1 HP @ 240 Vac Pilot Duty B300	15A @ 240 Vac, 50/60 Hz, 24 Vdc 1/2 HP @ 120 Vac 1 HP @ 240 Vac Pilot Duty B300
Minimum Switching Requirement	100 mA at 5 Vac or Vdc	100 mA at 5 Vac or Vdc	100 mA at 5 Vac or Vdc	100 mA at 5 Vac or Vdc
Timing/Sensing Characteristics				
Time Scales	1	1	1	1
Time Ranges	0 sec to 10 sec	0 sec to 10 sec	0 sec to 10 sec	0 sec to 10 sec
Tolerance	5% of Mechanical setting	5% of Mechanical setting	5% of Mechanical setting	5% of Mechanical setting
Repeatability @ constant voltage and temperature	1%	1%	1%	1%
Sensing Range	100 mA to 1 A	200 mA to 2 A	500 mA to 5 A	800 mA to 8 A
General Characteristics				
Electrical Life (operations at rated current) *(1)*	70,000 operations	70,000 operations	70,000 operations	70,000 operations
Mechanical Life (Unpowered) *(1)*	10,000,000 operations	10,000,000 operations	10,000,000 operations	10,000,000 operations
Dielectric Strength (Input to Contacts)	2500 Vac	2500 Vac	2500 Vac	2500 Vac
Dielectric Strength (Between Open Contacts)	1600 Vac	1600 Vac	1600 Vac	1600 Vac
Storage Temperature Range	-30°C (-22°F) to +70°C (+158°F)	-30°C (-22°F) to +70°C (+158°F)	-30°C (-22°F) to +70°C (+158°F)	-30°C (-22°F) to +70°C (+158°F)
Operating Temperature Range	-20°C (-4°F) to +55°C (+131°F)	-20°C (-4°F) to +55°C (+131°F)	-20°C (-4°F) to +55°C (+131°F)	-20°C (-4°F) to +55°C (+131°F)
Terminal Wire Capacity (Input and Output)	14 AWG (2.1 mm²) maximum	14 AWG (2.1 mm²) maximum	14 AWG (2.1 mm²) maximum	14 AWG (2.1 mm²) maximum
Terminal Screw Torque	7.1 Lb-in (0.8 N•m) maximum	7.1 Lb-in (0.8 N•m) maximum	7.1 Lb-in (0.8 N•m) maximum	7.1 Lb-in (0.8 N•m) maximum
Weight	60 g (2.12 oz)	60 g (2.12 oz)	60 g (2.12 oz)	60 g (2.12 oz)
Input Indication	Green LED	Green LED	Green LED	Green LED
Output Indication (Blinks = Timing or On = Energized)	Red LED	Red LED	Red LED	Red LED
Enclosure Rating (according to IEC 60529 IP rating)	IP20	IP20	IP20	IP20
Approvals	cULus (File No. E234203), CE 61810-1, RoHS	cULus (File No. E234203), CE 61810-1, RoHS	cULus (File No. E234203), CE 61810-1, RoHS	cULus (File No. E234203), CE 61810-1, RoHS

(1) Actual product life will vary based on electrical load, duty cycle, application, and environmental conditions.

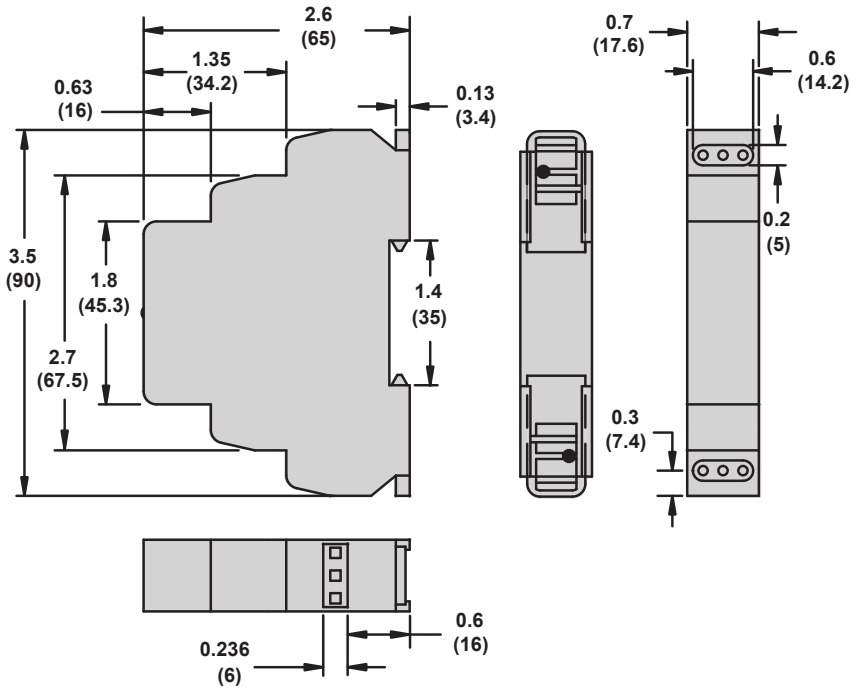
Dimensions,
Wiring Diagram

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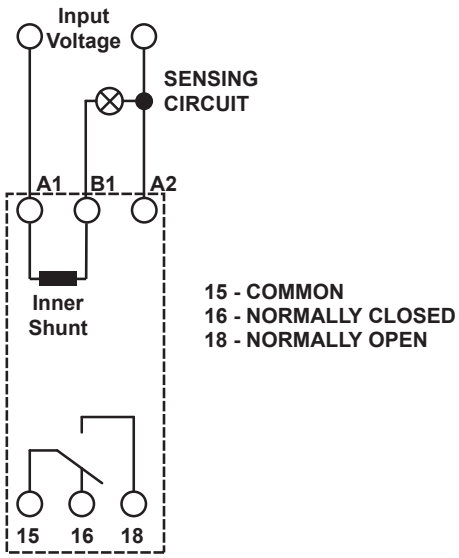
SPDT, 15 A

Dimensions — inches (millimeters)



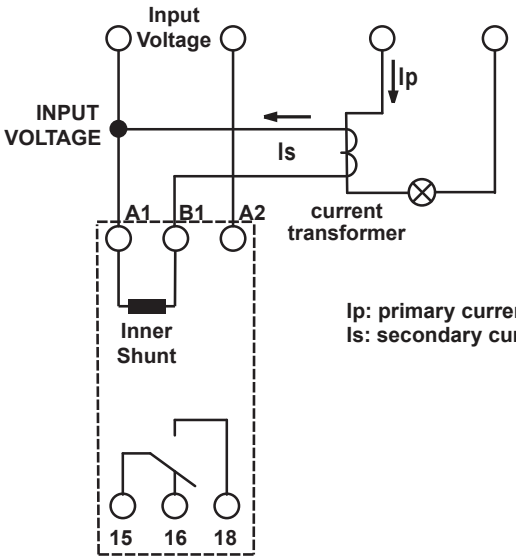
Wiring Diagram

Wiring for direct current sensing:



15 - COMMON
16 - NORMALLY CLOSED
18 - NORMALLY OPEN

Wiring for current sensing through current transformer:



Ip: primary current
Is: secondary current