

1-800-GRAINGER (472-4643)

## Universal AC Current Sensors



Sensors detect locked rotor, loss of current, open heater, or lamp load. Dayton and Schneider models feature switch-selectable overcurrent or undercurrent sensing. Toroidal sensor has 0.36" through hole on Dayton models.

Contact Amps	Input Voltage	Contact Form	Trip Point	Trip Delay	Electrical Connection	Mr. Model	Item No.
<b>Airotronics</b>							
1.00A	3 to 50VDC	1NO	Adjustable 3.00 to 45.00A	0.30 sec	Quick Connect Tabs	HCSDC045A	21EU16
1.00A	Self Powered	1NO	Adjustable 6.00 to 30.00A	0.30 sec	Quick Connect Tabs	HCSDC030A	21EU15
20.00A	Self Powered	LED	Adjustable 1.00 to 20.00A	None	Wire Leads	CSW/LED	21EU14
<b>Dayton</b>							
10.00A	24VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C054	6C054
10.00A	24VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V826	15V826
10.00A	120VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C055	6C055
10.00A	120VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V827	15V827
10.00A	240VAC	SPDT	Adjustable 2.00 to 20.00A	0.50 to 50 sec	Quick Connect Tabs	6C057	6C057
10.00A	240VAC	SPDT	Adjustable 5.00 to 50.00A	0.50 to 50 sec	Quick Connect Tabs	15V828	15V828
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec	Terminal Strip	1EJF3	1EJF3
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec	Terminal Strip	1EJF4	1EJF4
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec	Terminal Strip	1EJF5	1EJF5
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec	Terminal Strip	1EJF6	1EJF6
<b>Macromatic</b>							
10.00A	24VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec	Terminal Strip	CAP10AD68	485R28
10.00A	120VAC	SPDT	Adjustable 0.10 to 10.00A	0.10 to 10 sec	Terminal Strip	CAP10AD62	485R27
<b>RIB</b>							
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec	Terminal Strip	RIBXKTF	21AJ42
0.40A	30VAC/DC	1NO	Fixed 0.25A	Less than 1 sec	16 in Wire Leads	RIBXKF	21AJ44
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec	Terminal Strip	RIBXGTF	21AJ45
0.40A	30VAC/DC	1NO	Adjustable 0.75 to 150.00A	Less than 1 sec	Terminal Strip	RIBXGTA	21AJ46
0.40A	30VAC/DC	1NO	Fixed 0.35A	Less than 1 sec	16 in Wire Leads	RIBXGF	21AJ47
0.80A	30VAC/DC	1NO	Adjustable 0.50 to 150.00A	Less than 1 sec	Terminal Strip	RIBXKTA	21AJ43
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec	Terminal Strip	RIBXGHTF	21AJ48
1.00A	120VAC	1NO	Fixed 0.50A	Less than 1 sec	16 in Wire Leads	RIBXGHF	21AJ49
<b>Schneider Electric</b>							
15.00A	24 to 240VAC	SPDT	Adjustable 0.10 to 1.00A	0.10 to 10 sec	Terminal Strip	841CS1-UNI	6CWU0
15.00A	24 to 240VAC	SPDT	Adjustable 0.20 to 2.00A	0.10 to 10 sec	Terminal Strip	841CS2-UNI	6CWU1
15.00A	24 to 240VAC	SPDT	Adjustable 0.50 to 5.00A	0.10 to 10 sec	Terminal Strip	841CS5-UNI	6CWU2
15.00A	24 to 240VAC	SPDT	Adjustable 0.80 to 8.00A	0.10 to 10 sec	Terminal Strip	841CS8-UNI	6CWU3



21EU16



6C054



6CWU3

## 1-Phase Voltage Sensing Relays

- Field adjustable for pull-up and dropout
- LED status indicators
- 0.1- to 10-sec. activation delay

Solid-state sensor works as an overvoltage or undervoltage detecting relay to prevent equipment burnout and offer brownout protection.



Input Voltage	Contact Form	Contact Amp Rating (Resistive)	Pick-Up Range	Drop-Out Range	Base Type	Socket	Mr. Model	Item No.
12VDC	DPDT	10	9 to 15V DC	7 to 14V DC	Octal	5X852, 1EGP3, 1EGP5	VAKP012D	45LV06
24VDC	DPDT	10	18 to 30V DC	14 to 28V DC	Octal	5X852, 1EGP3, 1EGP5	VAKP024D	45LV07
120VAC	SPDT	15	80 to 150V AC	30% to 95%	DIN Rail	—	VWKE120A	23NV46
120VAC	DPDT	10	90 to 150V AC	68 to 142V AC	Octal	5X852, 1EGP3, 1EGP5	VAKP120A	45LV08
240VAC	SPDT	10	180 to 300V AC	135 to 285V AC	Octal	5X852	VAKP240A	45LV09
240VAC	SPDT	15	160 to 276V AC	30% to 95%	DIN Rail	—	VWKE240A	23NV47



23NV46



45LV09

## 3-Phase Line Monitors/Phase Failure Relays

- Automatic reset
- LED indicator signals normal operation
- Wye or delta 3-wire hookup

Units protect against phase loss, phase unbalance (except 5WMJ4, 5WMJ5, and 5WMJ6), phase reversal, and undervoltage. Adjustable undervoltage setting. 12N828 and 5WMJ3 also detect overvoltage.

Input Voltage	Contact Form	Voltage Unbalance	Socket	Brand	Mr. Model	Item No.
190 to 500VAC	SPDT	2 to 10	5X852	Dayton	PMPU-B18	31EE08
190 to 500VAC	SPDT	2 to 10	5X852	Macromatic	PMPU	5WMJ3
190 to 500VAC	SPDT	6	5X852	Dayton	PMPU-FA8B18	31EE09
190 to 500VAC	SPDT	6	5X852	Macromatic	PMPU-FA8	6MPP2
190 to 500VAC	SPDT	—	5X852	Macromatic	PCPU	45LU83
190 to 500VAC	DPDT	—	—	Macromatic	PMDU	45LU85
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TA00	12N827
208 to 480VAC	SPDT	<1	—	Schneider Electric	RM17TE00	12N828
208 to 480VAC	DPDT	2	—	Schneider Electric	RM35TF30	12N826
208VAC	SPDT	—	5X852	Macromatic	PAP208	5WMJ4
240VAC	SPDT	—	5X852	Macromatic	PAP240	5WMJ5
480 to 600VAC	SPDT	—	5X852	Macromatic	PMP575	45LU84
480 to 600VAC	DPDT	—	—	Macromatic	PMD575	45LU86
480VAC	SPDT	—	5X852	Macromatic	PAP480	5WMJ6



5WMJ3



12N826

## Alternating Relays

- Octal Base
  - LED status indicators
- Relays alternate the operation of 2 loads, sharing their run time. Selector switch allows alternating or individual operation of either load. Dual-stage load capacity permits simultaneous operation of 2 motors, solenoids, compressors, pumps, valves, or heaters. The relays return to load "A" after power outage. UL Recognized and CSA Certified.



Contact Form	Pins	Socket	Amps	Brand	COIL VOLTS				
					24V AC	120V AC	240V AC		
Mr. Model	Item No.	Mr. Model	Item No.	Mr. Model	Item No.	Mr. Model	Item No.		
SPDT	8	5X852	10	Macromatic	—	—	—	—	
DPDT Cross-Wired	8	5X852	10	Macromatic	ARP024A3R	6MPN8	ARP120A6R	6MPP1	
DPDT Cross-Wired	8	5X852, 1EGP3, 1EGP5	10	Dayton	6C051	6C051	6C052	6C052	
								ARP240A3R	6MPP0
								6C053	6C053



6MPN9

## Pump Seal Failure Relay

- 8-pin octal base
- LED status indicator

Voltage	Switch Type	Max. Amps	Mr. Model	Item No.
120VAC	SPDT	10	SFP120A100	5WMJ7
120VAC	(2) SPNO	10	SFP120C100	5WMJ8

Designed to monitor shaft seals in submersible pumps, and to provide an early warning of seal leak. 5WMJ7 is a single-channel unit, and 5WMJ8 is a dual-channel unit capable of monitoring 2 pumps.



5WMJ7