

1-800-GRAINGER (472-4643)



Single-Phase Line Voltage Monitors

Antishort cycle protection. Detect high/low voltage. 32MY19 adds surge protection.



5KPX9

Description	Voltage	Time Delay	N.O. Output (A)	Mfr. Model	Item No.
1-Ph., ASC Protection	95 to 270	Adj. 6 to 600 Sec.	5 A	ICM491	3UW94
1-Ph., Programmable	80 to 300	Adj. 0 to 720 Sec.	10 A	ICM492	5KPX9
1-Ph., Surge Arrestors	200 to 250	0 to 10 min	40 A	ICM493 ICM494	32MY19 32MY20

* Replacement board only for 32MY19.



Plug-In 3-Phase Line Voltage Monitor

Protects 3-phase motors and equipment from voltage faults. LED indicates high/low/unbalanced voltage, phase loss/reversal, and power interruptions. 100-msec response time. 50/60 Hz.



6JYL2

Voltage	% Volts Unbalance	N.O. Output (A)	NC Output (A)	Mfr. Model	Item No.
190-480V AC	2-8 User Select	10 A	10 A	ICM408	6JYL2
190 to 600	2 to 20, Adj.	10 A	6 A	ICM455	32MY21



Head-Pressure Controls

ICM—Feature high-temp. bypass, heat pump override, and adjustable hard-start timing and motor cutout speed. Indicator lights for full or modulated motor voltage. 4MG74 and 5KPX8 require separate 24VAC source; 4MG75 and 4MG76 have built-in 24VAC transformer.

Johnson Controls—R410A compatible. Weather-resistant, durable motor speed controls for approved single-phase, PSC motors commonly used in many refrigeration and air conditioning condenser fan applications. 20XJ08 allows easy configuration of P266 Series controllers via a PC.



4MG75

Input Volts AC @ 60/50 Hz	Triac Output Amps	Hard Start Timing (sec.)	Brand	Mfr. Model	Item No.
120 to 480	0.1 to 10.0	0.1 to 5.0	ICM	ICM325HNC	4MG74
120 to 240	0.1 to 10.0	0.1 to 5.0		ICM326HNC	4MG75
120 to 600	10	.1 - 5		ICM333	5KPX8
208/240	8	2 sec	Johnson Controls	P266AAA-100C	20XJ06
		2 sec		P266ABA-100C	40G351
		2 sec		P266ACA-100C	40G352
		2 sec		P266BCA-100C	40G353
460/575	4	2 sec	ICM	P266BHA-100C	40G354
		2 sec		P266BHA-2K	20XJ07
		2 sec		ICM327HNC	4MG76

Accessories	Mfr. Model	Item No.
Pressure Transducer, 0 to 508 PSI	P266SNR-1C	40G355
Pressure Transducer, 0 to 754 PSI	P266SNR-2C	40G356
Software for P266 Condenser Fan Speed Control	P266PRM-1K	20XJ08

Bypass Timer

■ Universal input voltage: 18-240VAC, 1A, 10A inrush
Bypasses a low-pressure switch or an oil-pressure switch on startup.



Time Delay	Mfr. Model	Item No.
10-1000 Seconds	ICM175	3UW85

3-Phase Line Voltage Monitors

■ UL Recognized E60605

Can detect voltage imbalance, high/low voltage, phase loss, reversal, incorrect sequencing, and rapid short cycling.

3UW93 has programmable 25-fault memory storage. Independent high/low voltage settings.

Display	Volts 50/60 Hz	% Volts Unbalance	Control Volts (AC)	N.O. Output (A)	NC Output (A)	Cross-Reference*				Mfr. Model	Item No.		
						Diversified Model	SSAC Model	TimeMark Model	Wagner Model				
LCD	190-630	2 to 25, Adj.	18 to 240	10 A	6 A	AC-2020	455	QLM/QLV	265	WPC-800	EAC-800	ICM450	3UW93
—	190-630	2 to 25, Adj.	18 to 240	20 A	10 A	AC-301, AC-302					EAC-8000	ICM400	3UW89

* Physical dimensions vary by manufacturer.



3UW93



Universal Capacitors

¼" brass-plated dual male terminals for best reliability, conductivity and corrosion resistance. Includes jumper wires to combine individual values into desired MFD rating. 60/50 Hz.

2ELT2



Description	MFD (µ) Rating	Cap. Voltage	Dia.	Case Height	Mfr. Model	Item No.
Motor Run Capacitor	2.5-67.5	370/440V AC	2 ½ in	4 ½ in	Turbo 200	2ELT2
	5-97.5	370/440V AC	2 ½ in	5 ¾ in	Turbo 200X	2ELT3
	2.5-15	370/440V AC	1 ¾ in	2 ¾ in	Turbo 200 Mini	2ELT4
Motor Start Capacitor	23-302	330V AC	2 ½ in	6 in	Turbolytic 50	2ELT5



Surge Protectors/Arrestors

- 1-phase, 120-240V
- Meet UL standards

Protect air conditioners, generators, motors, and appliances from power surges and lightning. 32ZN47 has an LED showing that surge protection is present, and a second LED indicating that device has power and is properly grounded.

32MY23



Max. Surge Current Per Phase	L	W	D	Brand	Mfr. Model	Item No.
100 kA	5.0 in	2.78 in	2.16 in	ICM	ICM517	32MY23
60 kA	4.98 in	3.48 in	1.8 in	5-2-1 Compressor Saver	SPD60	32ZN47

Refrigeration and Air Conditioner Start Assist Kits

32ZN44 to 32ZN46 can reduce air conditioner compressor start-up time up to 50% and lower energy consumption. 4E239 to 4E241 are for residential and commercial air conditioning units, heat pumps, and room air conditioners. 4MG78 replaces 3-wire potential relay and capacitor. 4E238 is used with residential and commercial refrigerators and freezers. 20LP97 to 20LP99 allow OEM-style, 3-wire installation and are for single-phase air conditioner or refrigeration units and hard-starting compressors under low voltage conditions.



For Use With Compressors	HP	Voltage	Brand	Mfr. Model	Item No.
1-3 tons A/C Units	4 to 5	208 to 240	Compressor Saver	CSRU1	32ZN44
3.5-4.5 tons A/C Units	3.5 to 5	208 to 240		CSRU2	32ZN45
4-5 tons A/C Units	4 to 5	208 to 240		CSRU3	32ZN46
Compressors	½ to 5	90 to 240	ICM	ICM866U	32MY24
	½ to 10	90-277	SPP5	4E239	
	½ to 10	90-277	SPP6	4E240	
	1 to 10	170-277	SPP8E	4MG78	
	1 ½ to 10	90-277	SPP7S	4E241	
PSC & CSIR	1 to 3	208-265	Supco	MPR5	12H941
	3 ½ to 5	208-265		MPR1	12H940
	½ to ½	115		RCO810	13E401
Reciprocating, Scroll, & Rotary	¼ to ½	115	Supco	RCO410	4E238
	1 to 3	208 to 240		3W1	20LP97
Hard Start with Low Voltage Situations, Single Phase Air Conditioner or Refrigeration Unit	3 ½ to 4 ½	208 to 240	Supco	3W2	20LP98
	4 to 5	208 to 240		3W3	20LP99

4E238

