



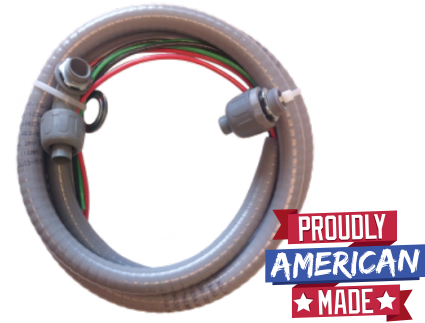
Air Conditioning Products

A/C Wiring Kits
Conduit & Fittings
Condensate Float Switch
Disconnects & Pullouts
HVAC Equipment Hanger



240 Volt, Single Phase A/C SEALPROOF® Power Whip

- Type: LFNC-B, Non-metallic (Metallic Fittings also available)
- Max Temperature Rating: 90°C (dry) 75°C (wet)
- Grounding: NEC® 250.18(1)
- Available in 1/2 inch and 3/4 inch conduit size
- 4 foot and 6 foot lengths
- Designed for easy installation
- Resists corrosion, oil, and water.
- Outdoor, sunlight resistant
- Lower installation cost
- Time saving convenience
- UL File Reference: E96572
- NEC 410, 430, 440, 250, 356
- RoHS Compliant



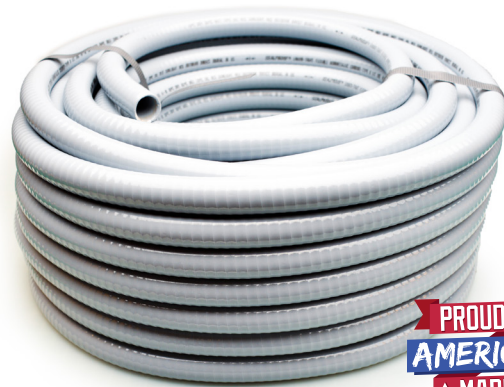
Call for Specialty Whips

Global No.	Size	Fitting	Wire Size	Case Qty
Non-Metallic				
8071	1/2" x 4'	1-Straight-1-90°	#10THHN	12
8073	1/2" x 6'	1-Straight-1-90°	#10THHN	12
8075	3/4" x 4'	1-Straight-1-90°	#8THHN	12
8077	3/4" x 6'	1-Straight-1-90°	#8THHN	12
Metallic				
8071M	1/2" X 4'	1-Straight-1-90°	#10THHN	12
8073M	1/2" X 6'	1-Straight-1-90°	#10THHN	12
8075M	3/4" X 4'	1-Straight-1-90°	#8THHN	12
8077M	3/4" X 6'	1-Straight-1-90°	#8THHN	12



Sealproof® UL Type B Flexible, Nonmetallic Liquid-Tight Conduit

- Made in the USA
- Listed under the Under writer's Laboratories File No.E-129973
- CSA Certified by Canadian Standards Association
- 3/8 inch thru 2 inch trade size
- Use with SEALPROOF® straight or right angle connectors
- May also be used with metallic connectors for liquid-tight conduit
- Resists corrosion, abrasion, oil, water, acid, metal shavings, and rough environments
- Resists abuse, pull and crushing
- UL Rating: 80°C dry, 60°C wet. 70°C oil resistant
- Outdoor, sunlight resistant, direct burial
- CSA rating - 18°C to 75°C, File No. LL-84705
- Smooth inside for easier wire pulling, no hazardous sharp edges or burrs, will not damage conductors
- Light weight and lower installed cost
- Quick installation, cuts with utility knife or PVC cutter
- Integral rigid & flexible PVC construction

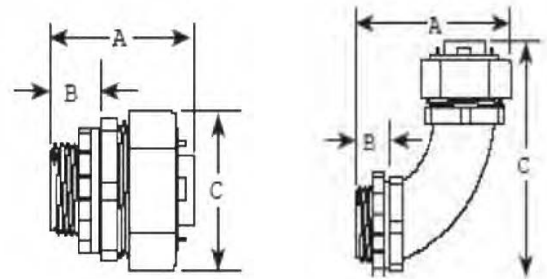


Global No.	Size	O.D. Min-Max	I.D. Min-Max	Case Qty
8040	1/2" x 100' Roll	.820 - .840"	.622 - .642"	1
8040-25	1/2" x 25' Roll			1
8040-50	1/2" x 50' Roll			1
8041	3/4" x 100' Roll	1.030 - 1.050"	.820 - .840"	1
8041-25	3/4" x 25' Roll			1
8040-50	3/4" x 50' Roll			1
8050	1" x 100' Roll	1.290 - 1.315"	1.041 - 1.066"	1



Straight 90° and Zinc Diecast Liquid-Tight Conduit Connectors

- Available 3/8" through 4"
- For use with both Metallic Liquid Tight Conduit and Nonmetallic Liquid Tight Type B
- Zinc die cast construction resists salt water, weak acids, gasoline, alcohol, oil, grease, & common solvents
- Resistant to outdoor weather conditions
- No disassembly required. Instead, the installer simply twists the conduit or tubing onto the ferrule, tightening the domed sealing nut. The completed assembly can then be secured in the chassis by the locknut (or first secure the connector into an NPT-threaded hole)
- No threading of the conduit or tubing required to install, eliminating the possibility of cutting the conduit & creating leak paths
- Complete conduit/connector system is reusable. Conduit will not wind tight onto the connector during assembly & can be easily removed by pulling while turning clockwise
- Suitable for indoor/outdoor use; for original equipment manufacturers or field installers
- Lower installed cost
- "O" Ring & zinc locknut included



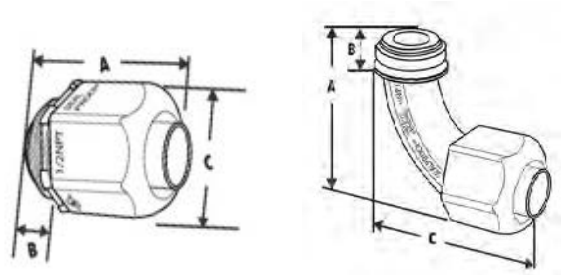
Global No.	Size	Type	K.O. Size	Dim. A	Dim. B	Dim. C	Case Qty
8042M	1/2"	Straight	1/2"	1.58"	1.18"	.53"	100
8043M	3/4"	Straight	3/4"	1.69"	1.57"	.58"	100
8044M	1"	Straight	1"	2.06"	1.81"	.58"	50
8045M	1/2"	90°	1/2"	2.24"	2.46"	.53"	100
8046M	3/4"	90°	3/4"	2.47"	2.79"	.55"	100
8047M	1"	90°	1"	3.46"	3.86"	.58"	50



Non-Metallic Fittings

Sealproof® Nonmetallic Liquid-Tight Screw-on Connectors

- Listed under the Underwriter's Laboratories
- Available 3/8 inch through 2 inch
- All nylon construction resists salt water, weak acids, gasoline, alcohol, oil, grease, and common solvents
- No disassembly required. Instead, the installer simply pushes the conduit or tubing onto the ferrule, tightening the domed sealing nut. The completed-assembly can then be secured in the chassis by the locknut (or first secure the connector into a NPT-threaded hole)
- No threading of the conduit or tubing required to install, eliminating the possibility of cutting the conduit and creating leak paths
- Complete conduit/connector system is reusable. Conduit will not wind tight onto the connector during assembly and can be easily removed by pulling while turning in a clockwise direction
- Suitable for indoor/outdoor use; for original equipment manufacturers or field installers
- Lower installed cost
- Molded of type nylon 6. Flammability classification 94V-2; temperature index 125°C
- Smooth internal surfaces for easier wire installation-around corner angles
- One-piece or multi-piece design
- "0" Ring and steel locknut included

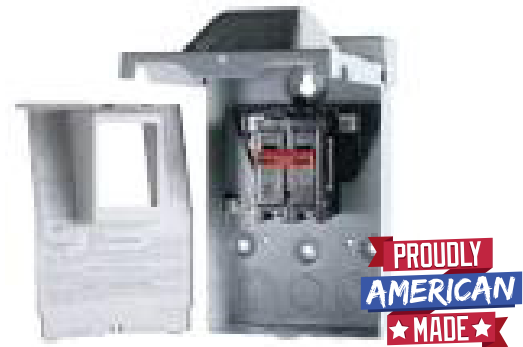


Global No.	Size	Type	K.O. Size	Dim. A	Dim. B	Dim. C	Case Qty
8042	1/2"	Straight	1/2"	1.750"	0.500"	1.250"	100
8042X	1/2"	Straight Multi-Piece	1/2"	2.000"	0.540"	1.400"	100
8043	3/4"	Straight	3/4"	1.800"	0.625"	1.500"	100
8043X	3/4"	Straight Multi-Piece	3/4"	2.200"	0.635"	1.700"	100
8044	1"	Straight	1"	—	—	—	50
8045	1/2"	90°	1/2"	1.875"	0.500"	3.125"	100
8045X	1/2"	90° Multi-Piece	1/2"	2.120"	0.500"	3.120"	100
8046	3/4"	90°	3/4"	2.375"	0.625"	3.500"	100
8046X	3/4"	90° Multi-Piece	3/4"	2.500"	0.520"	3.600"	100
8047	1"	90°	1"	—	—	—	50



EATON - Molded Case Switch Disconnect

- Operates the same as a light switch
- Plug-in molded case switch eliminates the need for pullout handles
- No need for replacement pullout handles due to loss or theft



Global No.	Eaton No.	Main Amp Rating	Wire Size Range Cu/Al 60°C or 75°C	Max Hp Rating		Case Qty
				120V	240V	
Galvanized Steel						
8068	DPB222R	60A	#14-3	—	10	10
80643P	DPU362RA	60A	#14-4	15	30	10

EATON - A/C Disconnect w/ GFI Receptacle

- 60Amp, 240V, Non-Fused & 30Amp, Fused
- NEMA 3R enclosure
- Built-in 100V ground fault receptacle
- Rotating receptacle for easy wiring
- Complies with 2000 NEC #210.63, 210.8, and 406.8
- Code requires a 15Amp receptacle be installed within 25 feet of HVACR equipment

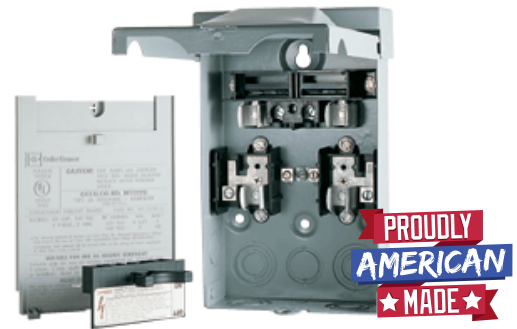


Global No.	Eaton No.	Main Amp Rating	Wire Size Range Cu/Al 60°C or 75°C	Max Hp Rating		Case Qty
				120V	240V	
Galvanized Steel						
8062GFI	DPF221RGF15	30A	#14-3	2	3	10
Non-Metallic						
8064GFI	DPU222RGF15	60A	#14-3	—	10	10



EATON - Fused Pullouts

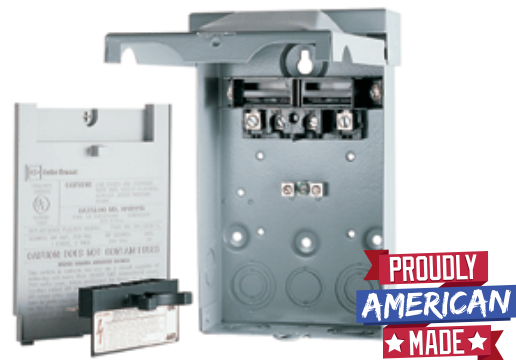
- Standard pullout when fused protection is required
- On/Off control provided by a pullout handle
- Pullout handle can be conveniently stored in the compartment in the OFF position, helping prevent the handle from being misplaced
- Protective shield cannot be removed until the pullout handle is removed, disconnecting the power



Global No.	Eaton No.	Main Amp Rating	Wire Size Range Cu/Al 60°C or 75°C	Max Hp Rating		Case Qty
				120V	240V	
Galvanized Steel						
8062	DPF221R	30A	#14-3	2	3	10
8063	DPF222R	60A	#14-3	3	10	10
Non-Metallic						
8062NM	ACD221RNM-A2	30A	#14-2	2	3	10
8063NM	ACD222RNM-A2	60A	#14-2	3	10	10

EATON - Non-Fused Pullouts

- Standard pullout when fused protection is not required
- On/Off control provided by a pullout handle
- Pullout handle can be conveniently stored in the compartment in the OFF position, helping prevent the handle from being misplaced
- Protective shield cannot be removed until the pullout handle is removed, disconnecting the power



Global No.	Eaton No.	Main Amp Rating	Wire Size Range Cu/Al 60°C or 75°C	Max Hp Rating		Case Qty
				120V	240V	
Galvanized Steel						
8064	DPU222R	60A	#14-3	—	10	10
Non-Metallic						
8064NM	ACD222URNM-A2	60A	#14-3	—	10	10

Disconnect/Pullout Cross Reference

Description	Global	Eaton	Square D*	GE*	Siemens® (Murray®)	Millbank	Midwest
Metallic/Galvanized Steel Enclosure							
30A fused	8062	DPF221R		TF30R	WF2030	U3830	U035F2
60A fused	8063	DPF222R		TR60R	WF2060	U3860	U065F1
60A non-fused	8064	DPU222R		TRN60R		U3800	U065P010
60A non-fused compact design		DPU222R			WNFC2060		
60A molded case switch	8068	DPB222R	Q0200TR	TNA60R1	WNAS2060		U065NA1
60A non-fused with ground fault receptacle		DPU222RGF		TFN60RGFR	WN2060GFCI	U3822-20GR	U065P010
30A fused with ground fault receptacle	8062GFI	DPF221RGF			WF2030GFCI		U035F010
60A fused with ground fault receptacle		DPF222RGF			WF2060GFCI		U065F010
60A non-fused with 1/2-inch wire harness		DPU222R12W					
60A non-fused with 3/4-inch wire harness		DPU222R34W					
60A three-phase 600V molded case switch	80643P	DPU362RA					U0653F
Non-Metallic/Polycarbonate Enclosure							
30A fused	8062NM	ACD221RNM-A2		TPF30R	WF2030PL		P035F
60A fused	8063NM	ACD222RNM-A2		TPF60R	WF2060PL		P065F
60A non-fused	8064NM	ACD222URNM-A2		TPN60R1	WN2060PL		P065P1
60A molded case switch	B60NARNM	B60NARNM-A2	Q0200TRNM	TPNA60R1	WNAS2060PL		P065NA1
30A fused with 15A ground fault receptacle		DPF221RGF15WRTR					
30A fused with 20A ground fault receptacle		DPF221RGF20WRTR					
60A fused with 15A ground fault receptacle		DPF222RGF15WRTR					
60A fused with 20A ground fault receptacle		DPF222RGF20WRTR					
60A non-fused with 15A ground fault receptacle	8064GFI	DPU222RGF15WRTR					
60A non-fused with 20A ground fault receptacle		DPU222RGF20WRTR				U3822-20GWR	



Disconnect/Pullout Dimensions - Dimensions in inches (mm)

Global	Eaton	Height	Width	Depth	Weight lbs (kg)
Metallic/Galvanized Steel Enclosure					
8062	DPF221R	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
8063	DPF222R	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
8064	DPU222R	8.70 (220.9)	5.40 (137.2)	3.15 (80.0)	27 (12)
8068	DPB222R	8.60 (218.4)	5.30 (134.6)	3.74 (95.0)	34 (15)
	DPU222R12W*	14.75 (374.6)	12.50 (317.5)	4.00 (101.6)	34 (15)
	DPU222R34W*	14.75 (374.6)	12.50 (317.5)	4.00 (101.6)	8 (4)
	DPU222RGF20	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF221RGF20	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF222RGF20	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPU222RGF15	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
8062GFI	DPF221RGF15	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF222RGF15	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF221RGF15WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF221RGF20WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF222RGF15WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPF222RGF20WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPU222RGF15WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
	DPU222RGF20WRTR	13.00 (330.2)	7.50 (190.5)	4.75 (120.7)	8 (4)
80643P	DPU632R	8.60 (218.4)	5.30 (134.6)	3.74 (94.9)	4 (2)
Non-Metallic/Polycarbonate Enclosure					
8062NM	ACD221RNM-A2	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
8063NM	ACD222RNM-A2	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
8064NM	ACD222URNM-A2	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	15 (7)
B60NARNM	B60NARNM-A2	8.63 (219.0)	6.26 (159.0)	4.33 (109.9)	18 (8)

Note

* = Eaton Quick Pro designated item

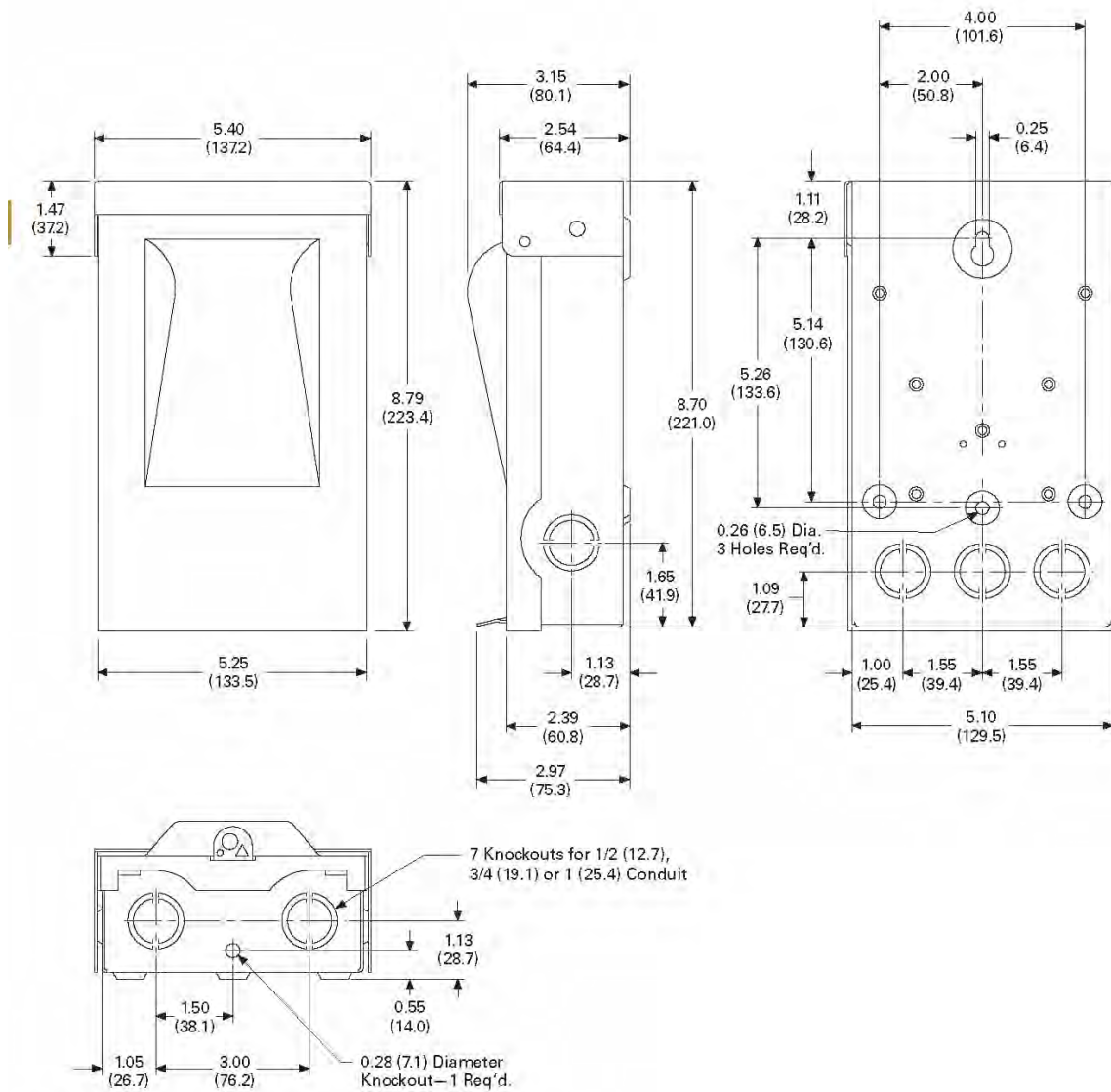


Disconnects/Pullouts

Disconnect/Pullout Dimensions

Approximate Dimensions in Inches (mm)

DPF221R, DPF222R, DPU222R, DPU222R12W, DPU222R34W

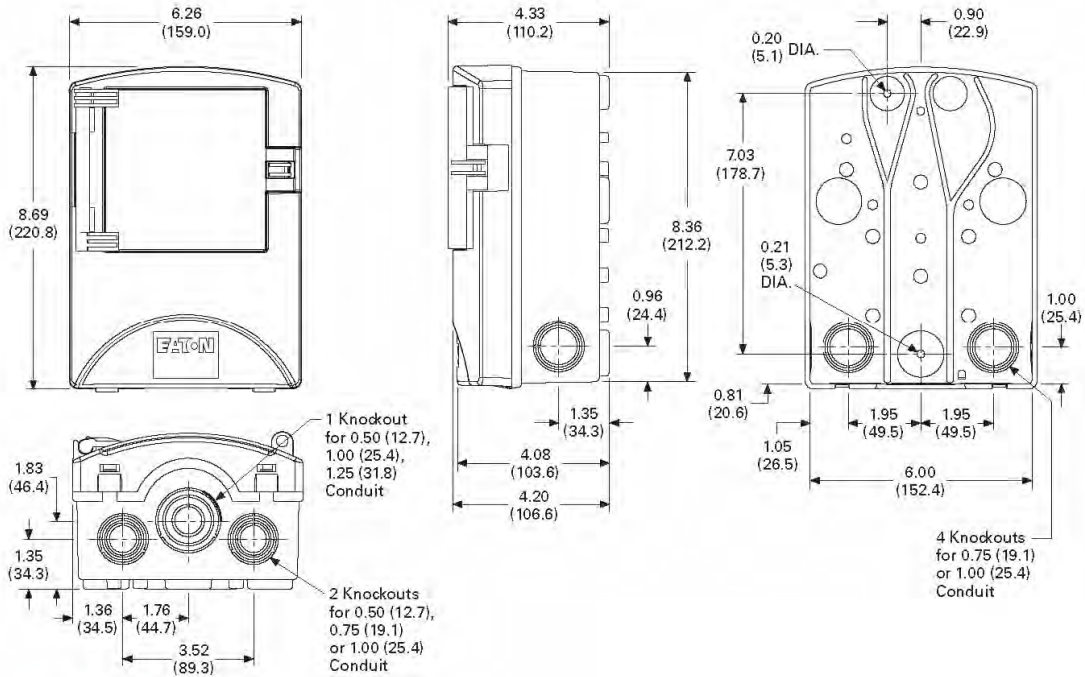




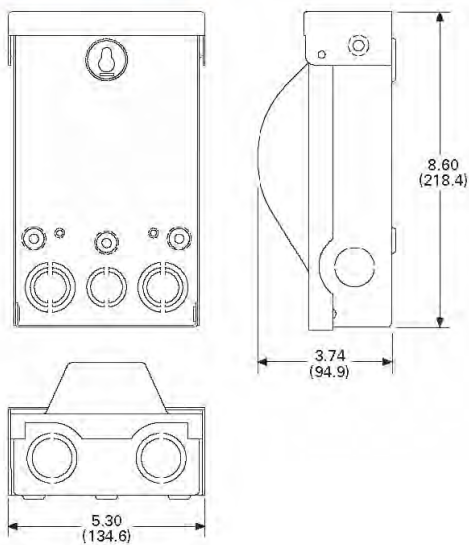
Disconnect/Pullout Dimensions

Approximate Dimensions in Inches (mm)

**ACD221RNM-A2, ACD222RNM-A2, ACD222URNM-A2, B60NARNM-A2
DPB222R and DPU632A**



DPB222R and DPU362A



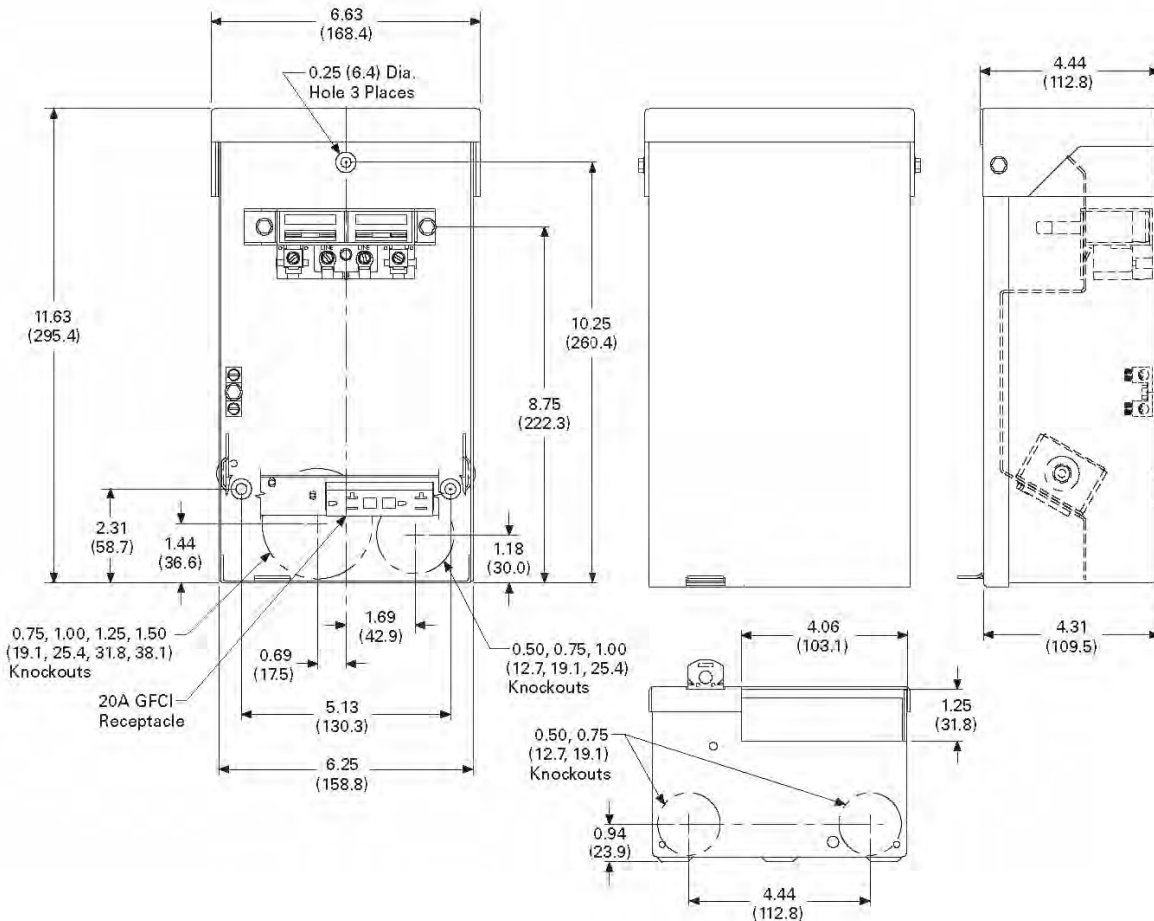


Disconnects/Pullouts

Disconnect/Pullout Dimensions

Approximate Dimensions in Inches (mm)

DPU222RGF20, DPF221RGF20, DPF222RGF20, DPU222RGF15, DPF221RGF15, DPF222RGF15, DPF221RGF15WRTR, DPF221RGF20WRTR, DPF222RGF15WRTR, DPF222RGF20WRTR, DPU222RGF15WRTR, DPU222RGF20WRTR





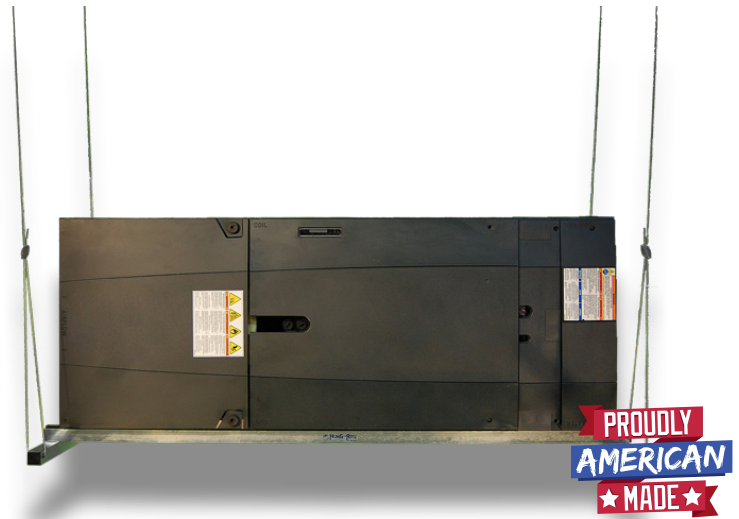
Equipment Hanger

HUNG-RITE - HVAC Equipment Hanger

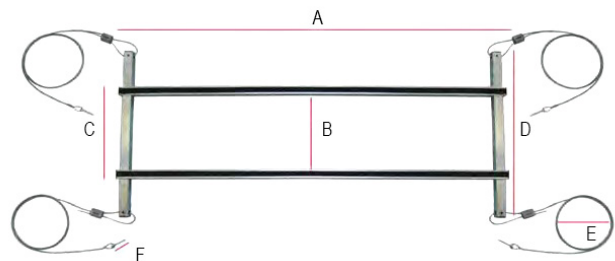
The Hung-Rite HVAC Equipment Hanger is a fully assembled HVAC equipment support unit capable of holding up to a five ton air handler, or a furnace and coil set weighing up to 400 lbs. Unbox, unfold, make your holes, and hang it rite. Have that unit installed in as little as 15 minutes! The hanger utilizes cable locks for quick leveling and is equipped with a 3/2" bolt for suspension in a variety of places. Hung-Rite's Hanger gives proper support to eliminate equipment buckling and leaves equipment unobstructed for future maintenance. Pre-drilled holes are located on the arms, for threaded rod during your commercial installations. All of which is available fully assembled in a slender package, and ready for your use!

Features and Benefits:

- Hanger comes fully assembled and ready for installation
- Uses padding to reduce vibration, for quieter equipment operation
- Cable locks allow easy leveling of your equipment
- Hanger is collapsible, and easy to take anywhere!
- HVAC contractor designed
- Has separate holes drilled for threaded-rod installations
- Supports up to a 5 ton air handler or furnace & coil weighing up to 400 lbs



Global No.	Description	Pallet Qty
Hung-Rite	A/C Equipment Hanger 66"	48pc
Hung-R33	A/C Equipment Hanger 33"	48pc
Hung-R56	A/C Equipment Hanger 56"	48pc
Hung-R78	A/C Equipment Hanger 78"	20pc Min.



Label	Name	Measurement
A	Unit Length	66 in.
B	Inner Arm Width	13 in.
C	Outer Arm Width	16 1/2 in.
D	Unit Width	30 in.
E	Cable Length	15 ft.
F	Bolt Length	3 1/2 in.
G	Cable Width (Diameter)	3/32"



Drain Alert & Quick Clip

Drain-Alert

Drain-Alert is versatile for primary and auxiliary drain pan outlets. It is compact to fit better in vertical applications. Sensor comes with 1/4" opening water level washer which may be replaced by 3/4" opening water level washer (included).

Features and Benefits:

- Can be used for metal and plastic pans
- No gluing or cutting existing drain lines
- 72" leads for either "R" or "Y" terminal
- Used on all 24 Volt systems
- See-through body
- Durable high-impact resistance & low scratch resistance
- Contains UV light inhibitor to protect against sunlight
- Easy to install
- 2 year warranty
- Made in the USA



Drain Alert



Drain Alert PL

Quick Clip

The Quick Clip is a remote safety switch control designed to clip onto the side of the auxiliary drain pan. It is magnetic and comes completely sealed with factory pre-wired leads. This switch has been designed to work in conjunction with water only and upon the rising of the float, the circuit will break open and the system will shut off.

Features and Benefits:

- Can be used for metal and plastic pans
- Pre-wired 18-48" or 18-60" leads
- Used on all 24 Volt systems
- Durable- high impact-resistance & low scratch-resistance
- Contains UV light inhibitor to protect against sunlight
- Easy to install
- 2 year warranty
- Made in the USA



Quick Clip

Global No.	Description	Case Qty
Drain Alert	Condensate Float Switch	16
Drain Alert PL	Condensate Float Switch Plenum Wire	16
QuickClip	Remote Safety Switch Control	10



Capacitors

Universal Turbo Capacitors
USA Made Capacitors
Global Run Capacitors
BMI Start Capacitors

Customer Service: (800) 531-5967

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Universal Turbo® Capacitors



- A. TurboLytic™ 50** – Motor start capacitor can replace any of the most popular values up to 302MFD
- B. TurboLytic™ JR** – More compact start capacitor offers combined values up to 227MFD
- C. DSC-Tester** – See the dual values of a motor run capacitor and compressor run capacitor simultaneously on the screen as you test
- D. Turbo® Easy-Start 5** – Replaces 4 commonly used hard start kits
- E. Turbo200®** - Run capacitor that replaces over 200 single or dual values up to 67.5MFD
- F. TurboMini®** – A permanent replacement run capacitor for fan size values 2.5MFD to 15MFD
- G. TurboMini® Oval** – A permanent replacement run capacitor for fan size values 2.5MFD to 15MFD
- H. Turbo200X®** – Run capacitor that replaces any of the higher range single or dual capacitors used in scroll compressors and higher efficiency A/C units, values up to 97.5MFD 370/400V

Universal Turbo Capacitors

Specifications	TurboMini	TurboMini Oval	Turbo200	Turbo200X	TES5	Turbolytic 50	Turbolytic JR	TurboMeter
Case Qty	50	50	20	16	10	18	20	1 ea
Value Range	2.5 to 15MFD	2.5 to 15MFD	2.5 to 67.5MFD	Up to 97.5MFD	Up to 324 MFD	Up to 302MFD	Up to 227MFD	All
Voltage Range	370/440V	370/440V	370/440V	370/440V	Up to 324V	Up to 330V	Up to 330V	

For your safety and performance, the Turbo®200 series has been tested and approved to the highest certification level of UL (Underwriters Laboratories) Standard 810; 10,000 AFC; Protected. (As required for all “original equipment” motor-run capacitors).

The Turbo®200 is produced under one or more American Radionic patent numbers: 3,921,041; 4,028,595; 4,312,027; 4,312,145; 5,313,360; 6,014,308. Additional US and foreign Patents Pending. The Turbo®200 is designed, developed and manufactured by American Radionic Co, Inc, Palm Coast Florida USA.

RELIABLE PERFORMANCE



TURBO 200 CAPACITORS



The world's first universal line of multiple tapped, oil-filled, metal can, motor-run and motor-start capacitors, eliminating the need to inventory more than 200 individual single or dual value capacitors with a voltage rating up to 440 VAC.



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Turbolytic™ 50 and Turbolytic™ JR

The World's First Multiple-Value Motor-Start Capacitors



The Turbolytic 50 and Turbolytic Jr can replace up to 64 different motor-start capacitance values w/ a voltage rating from 125VAC to 330VAC.

Incorporated with the same film dielectric technology used in AmRad's motor-run capacitors, the Turbolytic 50 and Turbolytic Jr are safety protected using a UL approved safety interrupter - the same safety mechanisms used in all AmRad capacitors.

TURBOLYTIC 50 - Replaces 50 popular values up to 302 MFD at 330 VAC

TURBOLYTIC JR - Replaces 12 of the most popular values up to 227 MFD at 330 VAC



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USA★MADE® CAPACITORS

- ★ Manufactured in Palm Coast, Florida
- ★ 370/440V Single & Dual Capacitance
- ★ 5 Year Warranty
- ★ Oil Filled with a Patented Non-PCB Oil
- ★ 10,000 AFC Protected
- ★ UL 810 Approved
- ★ OEM Approved



AMERICAN MADE PRODUCTS. 100% GUARANTEED.



Single Capacitance

GLOBAL NO.	MFD	VOLTAGE	CAN	CASE QTY
USA2027	3	370/440	Oval	100
USA2028	4	370/440	Oval	100
USA2029	5	370/440	Oval	100
USA2030	6	370/440	Oval	100
USA2031	7.5	370/440	Oval	100
USA2035	10	370/440	Oval	100
USA2037	12.5	370/440	Oval	100
USA2204	5	370/440	Round	100
USA2206	7.5	370/440	Round	100
USA2207	10	370/440	Round	100
USA2208	12.5	370/440	Round	100
USA2209	15	370/440	Round	100
USA2211	20	370/440	Round	100
USA2212	25	370/440	Round	100
USA2213	30	370/440	Round	100
USA2214	35	370/440	Round	100
USA2215	40	370/440	Round	25
USA2216	45	370/440	Round	25
USA2217	50	370/440	Round	50
USA2218	55	370/440	Round	50
USA2219	60	370/440	Round	50
USA2220	65	370/440	Round	50
USA2228	70	370/440	Round	50
USA2229	80	370/440	Round	50

Dual Capacitance

GLOBAL NO.	MFD	VOLTAGE	CAN	CASE QTY
USA2224A	20/3	370/440	Round	50
USA2224	20/4	370/440	Round	50
USA2222	20/5	370/440	Round	50
USA2224BA	25/3	370/440	Round	50
USA2225	25/5	370/440	Round	50
USA2225B	25/705	370/440	Round	50
USA2227BA	30/3	370/440	Round	50
USA2226	30/5	370/440	Round	50
USA2272B	30/7.5	370/440	Round	50
USA2226BA	35/3	370/440	Round	50
USA2227	35/5	370/440	Round	50
USA2291	35/7.5	370/440	Round	50
USA2227B	35/10	370/440	Round	50
USA2274	40/3	370/440	Round	50
USA2235	40/5	370/440	Round	50
USA2232	40/7.5	370/440	Round	50
USA2232A	40/10	370/440	Round	50
USA2236A	45/3	370/440	Round	50
USA2236	45/5	370/440	Round	50
USA2233	45/7.5	370/440	Round	50
USA2234	45/10	370/440	Round	50
USA2237A	50/3	370/440	Round	50
USA2237	50/5	370/440	Round	50
USA2238	50/7.5	370/440	Round	50
USA2240	55/5	370/440	Round	50
USA2218A	55/7.5	370/440	Round	50
USA2218BA	55/10	370/440	Round	50
USA2220B	60/5	370/440	Round	50
USA2221B	60/7.5	370/440	Round	50
USA2221BA	60/10	370/440	Round	50
USA2221	70/5	370/440	Round	25
USA2222A	70/7.5	370/440	Round	25
USA2220BA	70/10	370/440	Round	25
USA2222B	75/5	370/440	Round	25
USA2222BA	80/5	370/440	Round	25
USA2223B	80/7.5	370/440	Round	25
USA2223BA	80/10	370/440	Round	25

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Motor Run - Single Capacitance

Motor Run

Global capacitors are batch tested in a UL Certified lab in the United States and are backed with a two year warranty.

Contact Global for specific size requirements and case quantities.



370V

Oval		Round	
Global No.	MFD	Global No.	MFD
2002	2	2201	2
2003	3	2202	3
2004	4	2203	4
2005	5	2204	5
2006	6	2205	6
2007	7.5	2206	7.5
2008	10	2207	10
2009	12.5	2208	12.5
2014	20	2209	15
2015	25	2210	17.5
2017	30	2211	20
2018	35	2212	25
2021	40	2213	30
2023	45	2214	35
2022	55	2215	40
2024	60	2216	45
2035B	80	2217	50
		2218	55
		2219	60
		2228	70
		2229	80

440V

Oval		Round	
Global No.	MFD	Global No.	MFD
2026	2	2250	2
2027	3	2251	3
2028	4	2252	4
2029	5	2253	5
2030	6	2254	6
2031	7.5	2255	7.5
2032	10	2256	10
2033	12.5	2257	12.5
2034	15	2258	15
2036	17.5	2259	17.5
2035	20	2260	20
2040	25	2261	25
2041	30	2262	30
2043	35	2263	35
2045	40	2264	40
2048	45	2265	45
2051	50	2266	50
2052	55	2267	55
2054	60	2299B	60
2060	70	2295	65
2053	80		



Motor Run - Dual Capacitance

370V

Oval		Round	
Global No.	MFD	Global No.	MFD
2075	15/5	2220	15/5
2058	15/10	2221	15/10
2059	17.5/5	2222	20/5
2062	20/4	2222B	20/7.5
2063	20/5	2223	20/10
2064	20/10	2224	20/15
2164	20/15	2224BA	25/3
2065	25/3	2224B	25/4
2066	25/5	2225	25/5
2061	25/7.5	2225B	25/7.5
2167	25/10	2277	25/10
2068	30/3	2227B	30/3
2069	30/5	2231	30/4
2093	30/7.5	2226	30/5
2093B	30/10	2226B	30/15
2070	35/3	2226BA	35/3
2071	35/4	2276	35/4
2072	35/5	2227	35/5
2091	35/7.5	2291	35/7.5
2073	35/10	2227BA	35/10
2174	40/3	2274	40/3
2075	40/5	2274B	40/4
2094	40/7.5	2235	40/5
2076	45/5	2232	40/7.5
2179	50/5	2236	45/5
2079	55/5	2233	45/7.5
2092A	55/7.5	2234	45/10
2078	60/5	2237	50/5
2095	60/7.5	2238	50/7.5
2096	60/10	2239	50/10
		2240	55/5
		2218A	55/7.5
		2218BA	55/10
		2219BA	60/3
		2220B	60/5
		2221B	60/7.5
		2221BA	60/10
		2222A	70/7.5
		2222BA	80/5
		2223B	80/7.5
		2223BA	80/10

Global capacitors are batch tested in a UL Certified lab in the United States and are backed with a two year warranty.

Contact Global for specific size requirements and case quantities.

440V

Oval		Round	
Global No.	MFD	Global No.	MFD
2080	10/5	2275	10/5
2081	15/5	2268	15/5
2082	15/10	2269	20/5
2084	20/5	2270	20/15
2083	20/15	2271	25/5
2184	25/5	2271B	25/7.5
2182	25/7.5	2271BA	25/15
2188	25/10	2230	30/3
2195	25/15	2272	30/5
2187	30/5	2272B	30/7.5
2170	30/7.5	2286	35/3
2186	35/3	2273A	35/4
2185	35/5	2273	35/5
2194	35/7.5	2294	35/7.5
2189	40/3	2294B	35/10
2190	40/5	2293	40/3
2196	40/7.5	2294BA	40/4
2172	40/10	2290	40/5
2191	45/5	2298A	40/7.5
2191B	45/7.5	2297	45/5
2193	50/5	2299	45/7.5
2192	55/5	2299A	50/5
2052A	55/7.5	2299BA	50/7.5
2192B	55/10	2267B	55/5
		2267A	55/7.5
		2298B	60/5
		2298	60/7.5
		2298BA	60/10
		2299AA	80/5



Motor Start Capacitors

BMI - Motor Start Units

BMI's Motor Start units are non-polarized aluminum electrolytic capacitors designed for intermittent AC duty. These capacitors are used in starting fractional horsepower, single-phase electric motors, as well as in gear motor applications. The capacitors are housed in rugged plastic cases, which require no added insulation. Mounting hardware, end caps and brackets are available to facilitate mounting.

Features:

- Plastic Case, Moisture and Oil Resistant
- Voltages from 110 VAC- 330 VAC
- 091A Meets EIA Type 1 Specifications
- 092A Meets EIA Type 2 Specifications
- UL Recognized Capacitors

General Specifications:

- **Operating Temperature:** -40 to +65°C
- **Voltage Range:** 110 - 330 VAC
- **Capacitance Range:** 21 - 1280µF
- **Capacitance Tolerance:** -0%/+20%
- **Operating Frequency:** 50 - 60Hz
- **Case Size:** 8 Standard Sizes from 1.437" x 2.750" - 2.562" x 4.365"
- **Termination:** ¼" Quick Disconnect Terminals (Std.)
- **Performance Specifications:** Meets Requirements of EIA-463-A 091A Meets Type 1 Heavy Duty, Specifications 092A Meets Type 2, Standard-Duty, Specifications.



110/125V Cont.

Global No.	MFD	Can Size
1009	88-106	1
1010	108-130	1
1011	124-149	1
1012	130-156	1
1013	145-174	1
1014	161-193	1
1015	189-227	1
1016	200-240	1
1017	216-259	1
1018	233-280	1
1018A	243-292	1
1019	270-324	1
1020	300-360	1
1021	324-389	1
1022	340-408	2
1023	378-454	2
1024	440-480	2
1024A	430-516	2
1025	460-552	2
1026	540-648	4
1027	590-708	4
1027A	645-774	4
1028	708-850	4
1028A	800-900	7
1028AB	815-978	7
1029	829-995	7
1030	1000-1200	7

110/125V

Global No.	MFD	Can Size
1002	21-25	1
1003	25-30	1
1004	30-36	1
1005	36-43	1
1006	43-52	1
1007	53-64	1
1007A	64-77	1
1008	72-86	1



Motor Start Capacitors Cont.

220/250V		
Global No.	MFD	Can Size
1038	21-25	1
1039	25-30	1
1040	30-36	1
1041	36-43	1
1042	43-52	1
1043	53-64	1
1043A	64-77	2
1044	72-86	4
1045	88-106	4
1046	108-130	4
1047	130-156	4
1048	124-149	4
1049	145-174	4
1050	161-193	5
1051	189-227	6
1052	216-259	6
1053	233-280	6
1053A	243-292	7
1054	270-324	7
1054A	297-356	7

330V		
Global No.	MFD	Can Size
1055	21-25	2
1056	25-30	2
1057	30-36	2
1058	36-43	2
1059	43-52	4
1060	53-64	4
1060A	64-77	4
1061	72-86	4
1062	88-106	4
1063	108-130	7
1064	130-156	7
1065	124-149	7
1066	145-174	7
1067	161-193	7
1068	189-227	7
1069	216-259	7
1071	270-324	7

110/125V		
No.	Diameter (inches)	Length (inches)
1	1.4375	2.75
2	1.4375	3.375
3	1.4375	4.375
4	1.8125	3.375
5	1.8125	4.375
6	2.0625	3.375
7	2.0625	4.375

THE ONLY 1-5 TON HARD START KIT



TURBO® Easy-Start

2-Wire Universal - Up to 5 Tons

'Low-Loss' Metallized Motor-Start Capacitor
with Built-In Potential Relay



*For a smooth & fast boost of Air Conditioner and Refrigeration Compressors.
Simply select the capacitance range for your equipment!*

REPLACES 4 COMMONLY USED HARD START KITS

- Up to 1 TON (108 - 130 MFD)
- 1 - 2 TONS (189 - 227 MFD)
- 2.5 - 3 TONS (233 - 280 MFD)
- 3.5 - 5 TONS (270 - 324 MFD)

Part No. TES5



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Definite Purpose Contactors

Noark Contactors
Eaton Contactors
Auxiliary Contact Kits
Heater Packs Definite
Purpose Starters



Definite Purpose Contactors

All contactors with lugs

NOARK DP Contactors provide high performance with both flexibility and reliability. They are designed to match numerous applications including:

- HVACR
- Resistive heating
- Refrigeration equipment
- Motors
- Welding
- Pumps
- Power supplies
- Food service equipment
- Compressors
- Business machines



NOARK



Exclusive to

Available as:

- Rated current from 20-90 A
- 1, 2, 3, and 4 pole configurations Refrigeration equipment
- Enclosed coil standard for all 3 and 4 pole frame sizes
- Open coil standard for all 1 and 2 pole frame sizes
- Industry standard mounting plate provides easily accessible mounting holes
- Connection terminal options, including screw or lug connections each with quick connect spades
- Coil is Class B 266 °F (130 °C) insulation system with a wide range of voltages and 50/60 Hz ratings
- Double E magnet assembly provides optimal performance with reduced power consumption
- 1NO+1NC auxiliary contact block with 600 VAC rating available as an option
- Base assembly is made from high arc-resistant polyester

Certifications

- UL 508 Recognized, File No. E353866
- CSA Certified, C22.2 No. 265900
- IEC/EN 60947 Compliant
- CE Approved
- Compliance to ARI-780 HVAC standards
- RoHS Compliant

Part #	Description	Case Qty
N4143	1.5P 24V 30A W/ LUGS	64
N4164	1.5P 24V 40A W/ LUGS	64
N4101	2P 24V 20A W/ LUGS	64
N4104	2P 24V 25A W/ LUGS	64
N4107	2P 24V 30A W/ LUGS	64
N4161	2P 24V 40A W/ LUGS	64
N4102	2P 120V 20A W/ LUGS	64
N4105	2P 120V 25A W/ LUGS	64
N4108	2P 120V 30A W/ LUGS	64
N4126	2P 120V 40A W/ LUGS	64
N4106	2P 240V 25A W/ LUGS	64
N4109	2P 240V 30A W/ LUGS	64
N4163	2P 240V 40A W/ LUGS	64

Part #	Description	Case Qty
N4113	3P 24V 30A W/ LUGS	54
N4116	3P 24V 40A W/ LUGS	54
N4128	3P 24V 50A W/ LUGS	27
N4114	3P 120V 30A W/ LUGS	54
N4117	3P 120V 40A W/ LUGS	54
N4129	3P 120V 50A W/ LUGS	27
N4135	3P 120V 75A W/ LUGS	12
N4115	3P 240V 30A W/ LUGS	54
N4118	3P 240V 40A W/ LUGS	54
N4130	3P 240V 50A W/ LUGS	27
N4133	3P 240V 60A W/ LUGS	27
N4136	3P 240V 75A W/ LUGS	12
N4120	4P 120V 40A W/ LUGS	N/A



Eaton Contactors – Compact Series

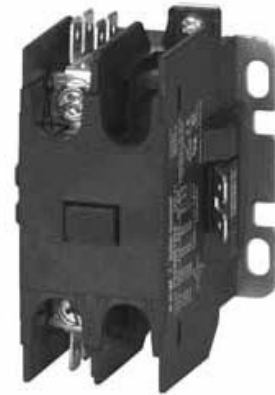
20–40A, Compact Single- and Two-Pole—C25

Eaton's 20–40A, single- and two-pole, Type C25 contactors from Eaton's electrical sector feature a compact, efficient design with a low VA coil and straight-through wiring. New contactor housing design effectively limits dust and other contaminants from magnet structure—reduces or eliminates noise. These economically priced, UL recognized/CSA certified, ampere rated devices are well suited for use in heating/air conditioning, refrigeration, data processing and food service applications.

Standards and Certifications:

- UL Recognized Components: UL File Number E1491, Guides N-LDX2 and NLDX8
- CSA Certified Components: CSA C22.2 No. 14-05, File Number 238083 Class 3211 84
- IEC 60947-4-1
- EN 60947-4-1
- ARI 780/790 Standard
- CE
- RoHS Compliance

Global No.	Eaton No.	Description (Case Qty. 50)
4140	C25CNB125T	1 Pole + Shunt 25A 24V
4141	C25CNB125A	1 Pole + Shunt 25A 120V
4142	C25CNB125B	1 Pole + Shunt 25A 208/240V
4143	C25CNB130T	1 Pole + Shunt 30A 24V
4144	C25CNB130A	1 Pole + Shunt 30A 120V
4145	C25CNB130B	1 Pole + Shunt 30V 208/240V
4101	C25BNB220T	2 Pole 20A 24V
4102	C25BNB220A	2 Pole 20A 120V
4103	C25BNB220B	2 Pole 20A 208/240V
4104	C25BNB225T	2 Pole 25A 24V
4105	C25BNB225A	2 Pole 25A 120V
4106	C25BNB225B	2 Pole 25A 208/240V
4107	C25BNB230T	2 Pole 30A 24V
4108	C25BNB230A	2 Pole 30A 120V
4109	C25BNB230B	2 Pole 30A 208/240V
4109B	C25DND230C	2 Pole 30A 480V
4161C	C2BNB240T	2 Pole 40A 24V
4161CL	C25BNF240T	2 Pole w/ Lug 40A 24V
4162C	C25BNB240A	2 Pole 40A 120V
4162CL	C25BNF240A	2 Pole w/ Lug 40A 120V
4163CL	C25BNB240B	2 Pole 40A 208/240V
4163CL	C25BNF240B	2 Pole w/ Lug 40A 208/240V



Compact 1-Pole



Compact 1-Pole with Shunt



Compact 2-Pole



Eaton Contactors – Compact Series

Compact Contactors Product Selection – Open Type

Inductive Full Load	Ampere Ratings*				Max. Motor Horsepower		Max. Motor Kilowatts		Catalog No.**
	Resistive	Locked Rotor			115V	230V	115V	230V	
		240-277V	480V	600V					
Single Pole									
25	30	150	50	40	2	3	1.5	2.2	C25ANB125_
30	40	150	75	50	2	5	1.5	3.7	C25ANB130_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25ANB140_
Single-Pole with Shunt									
25	30	150	50	40	2	3	1.5	2.2	C25CNB125_
30	40	150	75	50	2	5	1.5	3.7	C25CNB130_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25CNB140_
Double Pole									
20	30	120	100	80	1-1/2	3	1.1	2.2	C25BNB220_
25	35	150	125	100	2	3	1.5	2.2	C25BNB225_
30	40	150	125	100	2	5	1.5	3.7	C25BNB230_
40	50	240	200	160	3	7-1/2	2.2	5.5	C25BNB240_

*Rating per pole.

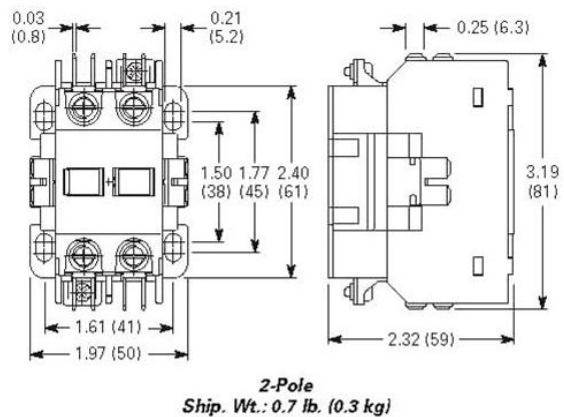
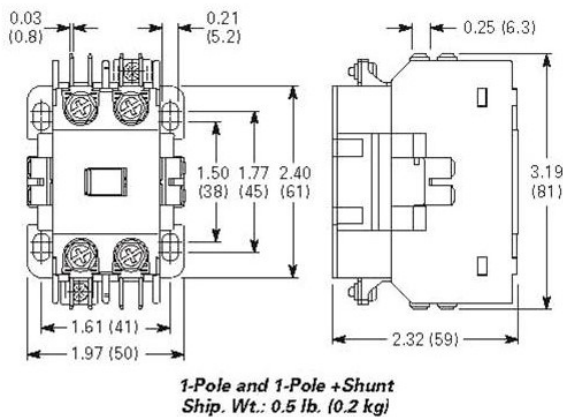
Incomplete Catalog Number. Replace underscore (_) in Catalog Number with Coil Suffix letter from **Magnet Coil Selection.

Magnet Coil Selection

AC Coil Voltage 50/60 Hz	Coil Suffix
24	T
110 - 120	A
208 - 240	B
277	H
380 – 415 (50 Hz); 440 – 480 (60 Hz)	C

Coil Characteristics

AC Coil Voltage 50/60 Hz	Max. Inrush VA	Max. Sealed VA	Max. Sealed Watts
One-Pole			
24	33	6	2
120	33	6	2
208/240	33	6	2
480	33	6	2
Two-Pole			
24	41	6.5	3
120	41	6.5	3
208/240	41	6.5	3
277	41	6.5	3
480	41	6.5	3





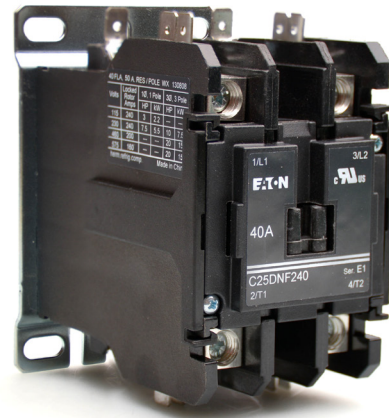
Eaton Contactors – Standard Series

15–360A, Two-, Three- and Four-Pole—C25

Type C25 Definite Purpose Contactors 15A through 360A, from Eaton’s electrical sector incorporate most competitive contactor mounting dimensions into a single baseplate. Contactors are dual-rated with inductive and resistive ratings as well as horsepower and kilowatt ratings. C25 contactors are furnished with pressure plates and quick connect terminals as standard on 15, 25 and 30A devices and with box lugs and quick-connect terminals on 40, 50, 60 and 75A. Contactors will accept add-on auxiliary contacts—order factory assembled or as kits for field installation. The separately available snap-on mechanical interlock permits interlocking two contactors for reversing or two-speed applications. Contactors rated 15–50A only are available with DIN rail mount as a factory installed option.

Standards and Certifications:

- UL Recognized Components UL File No. E-1491, Guide NLDX2
- UL recognized, CSA certified and conform to ARI 780
- CSA Certified Components: File No. LR353, Class 3211 04,481301 and 122201
- IEC 60947-4-1
- EN 60947-4-1
- CE mark
- RoHS Compliance (15A to 50A and 90A)



Global No.	Eaton No.	Description (Case Qty 20)
4161	C25DNF240T	2 Pole w/ Lug 40A 24V
4162	C25DNF240A	2 Pole w/ Lug 40A 120V
4163	C25DNF240B	2 Pole w/ Lug 40A 208/240V
4163A	C25DNF240C	2 Pole w/ Lug 40A 480V
4110	C25DND325T	3 Pole 25A 24V
4111	C25DND325A	3 Pole 25A 120V
4112	C25DND325B	3 Pole 25A 208/240V
4113	C25DND330T	3 Pole 30A 24V
4114	C25DND330A	3 Pole 30A 120V
4115	C25DND330B	3 Pole 30A 208/240V
4113C	C25DND330C	3 Pole 30A 480V
4116	C25DNF340T	3 Pole w/ Lug 40A 24V
4117	C25DNF340A	3 Pole w/ Lug 40A 120V
4118	C25DNF340B	3 Pole w/ Lug 40A 208/240V
4118C	C25DNF340C	3 Pole w/ Lug 40A 480V

Global No.	Eaton No.	Description (Case Qty 20)
4128	C25FNF350T	3 Pole w/ Lug 50A 24V
4129	C25FNF350A	3 Pole w/ Lug 50A 120V
4130	C25FNF350B	3 Pole w/ Lug 50A 208/240V
4130C	C25FNF350C	3 Pole w/ Lug 50A 480V
4131	C25FNF360T	3 Pole w/ Lug 60A 24V
4132	C25FNF360A	3 Pole w/ Lug 60A 120V
4133	C25FNF360B	3 Pole w/ Lug 60A 208/240V
4133C	C25FNF360C	3 Pole w/ Lug 60A 480V
4134	C25FNF375T	3 Pole w/ Lug 75A 24V
4135	C25FNF375A	3 Pole w/ Lug 75A 120V
4136	C25FNF375B	3 Pole w/ Lug 75A 208/240V
4137	C25GNF390T	3 Pole w/ Lug 90A 24V
4138	C25GNF390A	3 Pole w/ Lug 90A 120V
4139	C25GNF390B	3 Pole w/ Lug 90A 208/240V
4119	C25ENF440T	4 Pole w/ Lug 40A 24V
4120	C25ENF440A	4 Pole w/ Lug 40A 120V
4121	C25ENF440B	4 Pole w/ Lug 40A 208/240V



Eaton Contactors – Standard Series

IEC/CE Ratings (IEC 60947-4-1, EN 60947-4-1) for 15A through 50A C25D_Contactors

C25D_ Inductive Rating	AC-1 (Ic)		AC-3 (Ie)		AC-4 (Ie)		AC-8a	
	480V	600V	480V	600V	480V	600V	480V	600V
15A	20A	20A	15A	15A	15A	—	15A	15A
25A	30A	30A	25A	25A	25A	—	25A	25A
30A	40A	40A	30A	30A	30A	—	30A	30A
40A	50A	—	40A	—	40A	—	40A	—
50A	60A	65A	50A	50A	50A	—	50A	50A

IEC/CE Ratings (IEC 60947-4-1, EN 60947-4-1) for 15A through 50A C25D_Contactors

Voltage	2-Pole, 15 – 30A Inductive			2-Pole, 40A Inductive			3-Pole, 15 – 30A Inductive			3-Pole, 40A Inductive		
	UL/ CSA		DC-3/ DC-5	UL/ CSA		DC-3/ DC-5	UL/ CSA		DC-3/ DC-5	UL/ CSA		DC-3/ DC-5
	FLA	hp	I _e	FLA	hp	I _e	FLA	hp	I _e	FLA	hp	I _e
240V DC 3 Poles in Series	—	—	—	—	—	—	4	3/4	4	5	1	5
120V DC 3 Poles in Series	—	—	—	—	—	—	8	3/4	8	10	1	10
120V DC 2 Poles in Series	5.5	1/2	5.5	8	3/4	8	5.5	1/2	5.5	8	3/4	8
120V DC per Pole	2	1/10	2	3.5	1/4	3.5	2	1/10	2	3.5	1/4	3.5
24V DC per Pole	15	—	15	20	—	20	15	—	15	20	—	20

Contactor Torque Ratings

Contactor Size	Terminal	Wire Range	Tightening Torque
15 – 50A	8–32 Binding Head Screw	12 – 14 AWG	22 lb-in
	Screw/Pressure Plate	8 – 14 AWG	15 lb-in
	Box Lug	12 – 14 AWG	15 lb-in
		10 AWG	25 lb-in
		8 AWG	40 lb-in
60 – 75A	Box Lug	4 – 6 AWG	45 lb-in
		10 – 14 AWG	40 lb-in
		8 AWG	45 lb-in
90A	Box Lug	3 – 6 AWG	50 lb-in
120A	Box Lug	1/0 – 14 AWG	60 lb-in
		8 AWG	40 lb-in
		4 – 6 AWG	45 lb-in
200 – 300A	Box Lug	3 – 1/0 AWG	50 lb-in
		6 – 350 MCM	200 lb-in
360A	Box Lug	2 – 750 MCM	550 lb-in

Lighting Duty Ratings

C25D Inductive Rating	Tungsten & Ballast (480V)
25A	30A
30A	40A
40A	50A
50A	60A



Eaton Contactors – Standard Series

C25 Contactors Product Selection— Open Type

Ampere Ratings				Max. Motor Horsepower		Max. Motor Kilowatts		Number of Poles	Open Type with Metal Mounting Plate	Open Type with DIN Rail Adapter
Inductive Full Load	Resistive per Pole	Line Voltage	Locked Rotor	1-Phase	3-Phase	1-Phase	3-Phase		Catalog No. ①②	
15	20	115	90	3/4	—	0.40	—	2	C25DND215_ C25DND315_	C25DRD215_ C25DRD315_
		230	90	2	3	1.5	2.2	3		
		460	75	—	5	—	3.7	—		
		575	60	—	5	—	3.7	—		
25	35	115	150	2	—	1.5	—	2	C25DND225_ C25DND325_ C25END425_	C25DRD225_ C25DRD325_
		230	150	3	7-1/2	2.2	5.5	3		
		460	125	—	10	—	7.5	4		
		575	100	—	10	—	7.5	—		
30	40	115	180	2	—	1.5	—	2	C25DND230_ C25DND330_ C25END430_	C25DRD230_ C25DRD330_
		230	180	5	10	3.7	7.5	3		
		460	150	—	15	—	11	4		
		575	120	—	15	—	11	—		
40	50	115	240	3	—	2.2	—	2	C25DNF240_ C25DNF340_ C25ENF440_	C25DRF240_ C25DRF340_
		230	240	7-1/2	10	5.5	7.5	3		
		460	200	—	20	—	15	4		
		575	160	—	20	—	15	—		
50	65	115	300	3	—	2.2	—	2	C25DNJ250_ C25DNJ350_	C25DRJ250_ C25DRJ350_
		230	300	10	15	7.5	11	3		
		460	250	—	30	—	22	—		
		575	200	—	30	—	22	—		
60	75	115	360	5	—	3.7	—	2	C25FNF260_ C25FNF360_	NA
		230	360	10	20	7.5	15	3		
		460	300	—	40	—	30	—		
		575	240	—	40	—	30	—		
75	90	115	450	5	—	3.7	—	2	C25FNF275_ C25FNF375_	NA
		230	450	15	20	11	18.5	3		
		460	375	—	50	—	37	—		
		575	300	—	50	—	37	—		
90	120	115	540	7-1/2	—	5.7	—	2	C25GNF290_ C25GNF390_	NA
		230	540	20	30	15.1	22	3		
		460	450	—	50	—	37	—		
		575	360	—	50	—	37	—		
120	140	115	720	—	—	—	—	3	C25HNE3120_	NA
		230	720	—	—	—	—	—		
		460	570	—	—	—	—	—		
		575	—	—	—	—	—	—		
200	200	240	1200	—	—	—	—	3	C25KNE3200_	NA
		480	1200	—	—	—	—	—		
		600	1000	—	—	—	—	—		
300	300	240	1800	—	—	—	—	3	C25KNE3300_	NA
		480	1800	—	—	—	—	—		
		600	1500	—	—	—	—	—		



Eaton Contactors – Standard Series

C25 Contactors Product Selection— Open Type

Ampere Ratings				Max. Motor Horsepower		Max. Motor Kilowatts		Number of Poles	Open Type with Metal Mounting Plate	Open Type with DIN Rail Adapter
Inductive Full Load	Resistive per Pole	Line Voltage	Locked Rotor	1-Phase	3-Phase	1-Phase	3-Phase		Catalog No. ①②	
360	360	240 480 600	2320 2320 1900	— — —	— — —	— — —	— — —	3	C25LNE3360_	NA

- ① **Incomplete Catalog Number.** Replace underscore(_) in Catalog Number with Magnet Coil Suffix from table below.
- ② Carton quantities including 20 individually packaged units are available for 2- and 3-pole units through 60A inductive.
- ③ Contactors with DC coils (only available up to 75A) include an early break NC auxiliary contact, C320KGD1.
- ④ Available only for 15A through 75A contactors and 4-pole contactors.
- ⑤ Available through 75A.
- ⑥ Available through 120A.
- ⑦ Available 120 – 360A.
- ⑧ Available 15 – 90A, others 240V
- ⑨ Available through 50A.
- ⑩ 104 – 120V 50/60 Hz for 60A, 75A and all 4-Pole Contactors (25A-40A).
- ⑪ Class H AC Coils available as option for 15A – 50A Contactor. Add 2 before AC Coil Suffix letter.

Magnet Coil Selection

Voltage		Coil Suffix
60 Hz	50 Hz	
AC ⑪		
12 ⑤	12	R
24 ⑥	24	T
110 - 120 ⑩	110 - 120	A
208 ⑦	208	E
208 - 240 ⑧	208 - 240	B
240 ⑨	220	J
277	-	H
-	380 - 415	L
440 - 480	440 - 480	C
550 - 600	550 - 600	D
DC ③		
12		1R
24		1T
48		1W
120		1A ④



Contactors Accessories

EATON - Auxiliary Contact Kits

Optional Features — Factory Installed

To order C25, C65, A25 and B25 Contactors and Starters with options listed below, change the basic Catalog Number listed in the Selection Table as noted.

Description	Code Letter	*
-------------	-------------	---

Terminals — 15 through 40A

Replace letter in the 6th position of Catalog Number with Code Letter listed below. EXAMPLE: Change C25DND215 to C25DNC215.

Pressure Plate	C	N/C		
Without Quick Connect Terminals	D	Standard		
Binding Head Screws	A	N/C		
Without Quick Connect Terminals	B	N/C		
With Quick Connect Terminals		2-Pole	3-Pole	4-Pole
Lugs	E			
Without Quick Connect Terminals	F			
With Quick Connect Terminals				

Terminals — 50 through 75A

Replace letter in the 6th position of Catalog Number with Code Letter listed below. EXAMPLE: Change C25FNF250 to C25FNE250.

Lugs	E	N/C
Without Quick Connect Terminals	F	Standard
With Quick Connect Terminals		

Auxiliary Contacts

Add Code Letter listed below to complete Catalog Number using Code Letter listed below. EXAMPLE: Change C25DND215A to C25DND215AA.

Description	With Standard Pressure Plate Terminals		With Quick Connect Terminals	
	Code Letter	*	Code Letter	*

For 15 through 90A

Factory Installed	A	F
1NO	B	G
1NC	C	H
1NO-1NC	D	J
2NO	E	K
2NC		

For 120 through 360A

Factory Installed	A	
1NO	C	—
1NO-1NC	D	
2NO	E	
2NC		

Special Marking

Special contactor marking, consult local sales office.
90A available only with binding head screw and quick connect terminals.

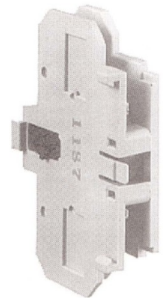


NEMA 1 Enclosure
Cat. No. C799B19

Separate Enclosures — NEMA 1

Application	Catalog Number	*
15 through 40A, 2- and 3-Pole	C799B18	
50 and 60A, 2- and 3-Pole or 25 through 40A, 4-Pole	C799B19	

Optional Features — For Field Installation



Side Mounted Auxiliary Contact

Auxiliary Contact Kits (Side Mounted)

Circuit	Heavy-Duty Pilot Rated for 10A at 600V AC			
	With Standard Pressure Plate Terminals		With Pressure Plate and Quick Connect Terminals	
	Catalog Number	*	Catalog Number	*

For 15 through 75A

1NO	C320KG1		C320KG11
1NC	KG2		KG12
1NO-1NC	KG3		KG13
2NO	KG4		KG14
2NC	KG5		KG15

For 90A

1NO	—		C320DPG10
1NC			DPG01
1NO-1NC			DPG11
2NO			DPG20

For 120 through 360A

1NO	C320KGS20		—
1NC	KGS21		
1NO-1NC	KGS22		



Contactors Accessories

EATON - Fast Trip – Class 10 Heater Packs

- Manual or Automatic Reset
- Heater packs are shipped 3 to a carton

Heater packs H2101B to H2117B are to be used only with Series B overload relays. The load lugs are built into the overload relay base to allow load wiring prior to heater pack installation. The previous heater design had integral load lugs. The Series B heater packs are electrically equivalent to the previous heater design.



Fast Trip– Class 10 Heater Packs					
Global No. (Includes 3 Heater Packs) ①	Motor Full Load Ampere Rating ②				Overload Relay Size
	Dial Position				
	A	B	C	D	
For Use with NEMA Sizes 00-0 Series C, NEMA Sizes 1-2 Series B, IEC Sizes A-F Series C, IEC Sizes G-K Series B					
H2101B-3	.260	.313	.367	.420	32A or 75A
H2102B-3	.384	.464	.543	.623	
H2103B-3	.570	.688	.806	.924	
H2104B-3	.846	1.02	1.20	1.37	
H2105B-3	1.28	1.55	1.83	2.10	
H2106B-3	1.92	2.33	2.74	3.15	
H2107B-3	2.30	2.79	3.28	3.77	
H2108B-3	3.38	4.10	4.82	5.54	
H2109B-3	4.96	6.03	7.09	8.16	
H2110B-3	7.07	8.58	10.1	11.6	
H2111B-3	9.60	11.2	12.8	14.4	
H2112B-3	14.4	17.5	20.7	23.8	
H2113B-3	18.7	21.8	25.0	28.1	
H2114B-3	23.5	27.3	31.0	34.8	
For Use with Size 2, IEC Sizes G-K Only— Series B					
H2115B-3	28.3	32.6	37.0	41.3	75A
H2116B-3	36.6	42.3	48.1	53.8	
H2117B-3	53.8	80.8	67.9	74.9	



Global Contactor Information

Global Part Number*	Poles	Amps	Volts	C-H	GE	GE	Square D	Furnas	Furnas Centurion	Products Unlimited	Mars GE	Mars GE	Arrow Hart	Mars Series 910
C25GNF290T	2	90	24	C25GNF290T	CR353EH2BH1	8910DPA92V14	42GE15AJ106	42GE15AJ106	42GE15AJ106	3186Y20Q90350			ACC920U10	
C25GNF290A	2	90	120	C25GNF290A	CR353EH2BA1	8910DPA92V02	42GE15AF106	42GE15AF106	42GE15AF106	3186Y20T90350			ACC920U20	
C25GNF290B	2	90	208/240	C25GNF290B	CR353EH2BB1	8910DPA92V06	42GE15AG106	42GE15AG106	42GE15AG106	3186Y20J90350			ACC920U30	
C25GNF290C	2	90	480	C25GNF290C	CR353EH2BC1	8910DPA92V06	42GE15AH106	42GE15AH106	42GE15AH106	3186Y20H90350			ACC920U60	
4110	3	25	24	C25DND325T	CR353AB3AH1	8910DPA23V14	41NB30AJM	42AF35AJ	42AF35AJ	3100Y30Q8350	13101	13110	ACC230U10	91231
4111	3	25	120	C25DND325A	CR453AB3AAA	8910DPA23V02	41NB30AFM	42AF25AF	42AF25AF	3100Y30T8350	13102	13111	ACC230U20	
4112	3	25	208/240	C25DND325B	CR453AB3BA1	8910DPA23V09	41NB30AGM	42AF35AG	42AF35AG	3100Y30U8350	13103	13112	ACC230U30	
C25DND325C	3	25	480	C25DND325C	CR453AB3CA1	8910DPA23V06	41NB30AHM	42AF35AH	42AF35AH	3100Y30H8350			ACC230U60	
4113	3	30	24	C25DND330T	CR453AC3HAA	8910DPA33V14	42BE35AJ106	42BF35AJ	42BF35AJ	3100Y30Q9350	13007	13113	ACC330U10	91331
4114	3	30	120	C25DND330A	CR453AC3AAA	8910DPA33V02	42BE35AF106	42BF35AF	42BF35AF	3100Y30T9350	13008	13114	ACC330U20	91332
C25DND330B	3	30	208/240	C25DND330B	CR453AC3BAA	8910DPA33V09	42BE35AG106	42BF35AG	42BF35AG	3100Y30J9350	13009	13115	ACC330U30	91333
4116	3	30	480	C25DND330C	CR453AC3CAA	8910DPA33V06	42BE35AH106	42BF35AH	42BF35AH	3100Y30H9350			ACC330U60	
4117	3	40	24	C25DNF340T	CR353AD3BH1	8910DPA43V14	42CE35AJ106	42CF35AJ	42CF35AJ	3100Y30Q10350	13013	13116	ACC430U10	91431
4118	3	40	120	C25DNF340A	CR353AD3BA1	8910DPA43V02	42CE35AF106	42CF35AF	42CF35AF	3100Y30T10350	13014	13117	ACC430U20	91432
4128	3	50	24	C25DNF350T	CR353AD3CAA	8910DPA43V09	42CE35AG106	42CF35AG	42CF35AG	3100Y30U10350	13015	13118	ACC430U30	91433
4129	3	50	120	C25DNF350A	CR353FE3BA1	8910DPA63V02	42DE35AF106	42DF35AF	42DF35AF	3100Y30T16350			ACC530U20	91532
4130	3	50	208/240	C25DNF350B	CR353FE3BB1	8910DPA63V09	42DE35AG106	42DF35AG	42DF35AG	3100Y30J16350	13621		ACC530U30	91533
C25FNF350C	3	50	480	C25FNF350C	CR353FE3BC1	8910DPA63V06	42DE35AH106	42DF35AH	42DF35AH	3100Y30H16350			ACC530U60	
4131	3	60	24	C25FNF360T	CR353GF3BH1	8910DPA63V14	42EE35AJ106	42EF35AJ	42EF35AJ	3100Y30Q17350	13619		ACC630U10	91631
4132	3	60	120	C25FNF360A	CR353GF3BA1	8910DPA63V02	42EE35AF106	42EF35AF	42EF35AF	3100Y30T17350	13626		ACC630U20	91632
4133	3	60	208/240	C25FNF360B	CR353GF3BB1	8910DPA63V09	42EE35AG106	42EF35AG	42EF35AG	3100Y30U17350	13627		ACC630U30	91633
C25FNF360C	3	60	480	C25FNF360C	CR353GF3BC1	8910DPA63V06	42EE35AH106	42EF35AH	42EF35AH	3100Y30H17350			ACC630U60	
4134	3	75	24	C25FNF375T	CR353EG3BH1	8910DPA73V14	42FE35AJ106	42FE35AJ106	42FE35AJ106	3186Y30Q75350	13240		ACC730U10	91731
4135	3	75	120	C25FNF375A	CR353EG3BA1	8910DPA73V02	42FE35AF106	42FE35AF106	42FE35AF106	3186Y30T75350	13241		ACC730U20	91732
4136	3	75	208/240	C25FNF375B	CR353EG3BB1	8910DPA73V09	42FE35AG106	42FE35AG106	42FE35AG106	3186Y30J75350	13242		ACC730U30	91733
C25FNF375C	3	75	480	C25FNF375C	CR353EG3BC1	8910DPA73V06	42FE35AH106	42FE35AH106	42FE35AH106	3186Y30H75350			ACC730U60	
4137	3	90	24	C25GNF390T	CR353EH3BH1	8910DPA93V14	42GE35AJ106	42GE35AJ106	42GE35AJ106	3186Y30Q90350	13260		ACC930U10	13260
4138	3	90	120	C25GNF390A	CR353EH3BA1	8910DPA93V02	42GE35AF106	42GE35AF106	42GE35AF106	3186Y30T90350	13261		ACC930U20	13261
4139	3	90	208/240	C25GNF390B	CR353EH3BB1	8910DPA93V09	42GE35AG106	42GE35AG106	42GE35AG106	3186Y30U90350	13262		ACC930U30	13262
C25GNF390C	3	90	480	C25GNF390C	CR353EH3BC1	8910DPA93V06	42GE35AH106	42GE35AH106	42GE35AH106	3186Y30H90350			ACC930U60	
4147	3	120	24	C25HNE3120T							13281			
4148	3	120	120	C25HNE3120A							13282			
4149	3	120	208/240	C25HNE3120B										
4180	3	200	24	C25KNE3200T										
4181	3	200	120	C25KNE3200A										
4182	3	200	208/240	C25KNE3200B										
C25END425T	4	25	24	C25END425T	CR353AB4AH1	8910DPA24V14	42AF25AJ	42AF25AJ	42AF25AJ	3100Y40Q8350			ACC340U10	
C25END425A	4	25	120	C25END425A	CR353AB4AA1	8910DPA24V02	42AF25AF	42AF25AF	42AF25AF	3100Y40T8350			ACC340U20	
C25END425B	4	25	208/240	C25END425B	CR353AB4AB1	8910DPA24V09	42AF25AG	42AF25AG	42AF25AG	3100Y40U8350			ACC340U30	
C25END425C	4	25	480	C25END425C	CR353AB4AC1	8910DPA24V06	42AF25AH	42AF25AH	42AF25AH	3100Y40H8350			ACC340U60	
C25END430T	4	30	24	C25END430T	CR353AC4AH1	8910DPA34V14	42BE25AJ106	42BF25AJ	42BF25AJ	3100Y40Q9350	13010		ACC340U10	
C25END430A	4	30	120	C25END430A	CR353AC4AA1	8910DPA34V02	42BE25AF106	42BF25AF	42BF25AF	3100Y40T9350	13011		ACC340U20	
C25END430B	4	30	208/240	C25END430B	CR353AC4AB1	8910DPA34V09	42BE25AG106	42BF25AG	42BF25AG	3100Y40J9350	13012		ACC340U30	
C25END430C	4	30	480	C25END430C	CR353AC4AC1	8910DPA34V06	42BE25AH106	42BF25AH	42BF25AH	3100Y40H9350			ACC340U60	
4119	4	40	24	C25ENF440T	CR353AD4BH1	8910DPA44V14	42CE25AJ106	42CF25AJ	42CF25AJ	3100Y40Q10350	13016		ACC440U10	
4120	4	40	120	C25ENF440A	CR353AD4BA1	8910DPA44V02	42CE25AF106	42CF25AF	42CF25AF	3100Y40T10350	13017		ACC440U20	
4121	4	40	208/240	C25ENF440B	CR353AD4BB1	8910DPA44V09	42CE25AG106	42CF25AG	42CF25AG	3100Y40U10350	13018		ACC440U30	
C25ENF440C	4	40	480	C25ENF440C	CR353AD4BC1	8910DPA44V06	42CE25AH106	42CF25AH	42CF25AH	3100Y40H10350			ACC440U60	



Eaton Starters

EATON - 25-60A, Single- and Three-Phase—A25, B25

A25 and B25 Definite Purpose Starters from Eaton's electrical sector combine the features and flexibility of the C25 Definite Purpose Contactors and Freedom Series Bi-metallic Ambient Compensated Overload Relays mounted on a common mounting plate.

Standards and Certifications:

- UL Recognized Components UL File #E-1491, Guide NLDX2
- CSA Certified Components File #LR353, Guide 380W-1.14Class 3211 04



B25 & A25 Single- and Three Phase Starters (Open Type)

Global No. ①				Ampere Rating			Max Motor Hp		Max Motor KW	
Single-Phase		Three-Phase		Inductive Full Load	Line Voltage	Locked Rotor	1-Phase	3-Phase	1-Phase	3-Phase
Common Control	Separate Control	Common Control	Separate Control							
B25CNC25	B25SNC25	A25CNC25	A25SNC25	25	115	150	2	—	1.5	—
					230	150	3	7.5	2.2	5.5
					460	125	—	10	—	7.5
					575	100	—	10	—	7.5
B25CNC30	B25SNC30	A25CNC30	A25SNC30	30	115	180	2	—	1.5	—
					230	180	5	10	3.7	7.5
					460	150	—	15	—	11
					575	120	—	15	—	11
B25CNE40	B25SNE40	A25CNE40	A25SNE40	40	115	240	3	—	2.2	—
					230	240	7.5	10	5.5	7.5
					460	200	—	20	—	15
					575	160	—	20	—	15
—	—	A25CNE50	A25SNE50	50	115	300	—	—	—	—
					230	300	—	15	—	11
					480	250	—	30	—	22
					575	200	—	30	—	22
—	—	A25CNE60	A25SNE60	60	115	360	—	—	—	—
					230	360	—	20	—	15
					460	300	—	40	—	30
					575	240	—	40	—	30

Starters Include:

- 3 Pole C25 Contactor
- Ambient Compensated Overload Relay
- Selectable Manual or Automatic Reset

When Ordering Specify:

Global part number plus coil suffix

Example: A25CNC30 → Plus 120V Coil A → Oder A25CNC30AEaton

- ① Starters do not include heater packs
- ② Starters with DC coils include an early break auxiliary contact
- ③ Available only for 50A and 60A starters

Magnetic Coil Selection

AC		DC ②		
Voltage		Coil	Voltage	Coil Suffix
60 Hertz	50 Hertz			
12	12	R	12	1R
24	24	T	24	1T
104-120	104-120	A	48	1W
208-240	208-240	B	120	1A ③
277	—	H	—	—
—	380-415	L	—	—
4480-480	440-480	C	—	—
550-600	550-600	D	—	—



Electrical Service Products

Circuit Breakers
Load Centers
Safety Switches
Surge Protectors



Eaton Circuit Breakers



- Classified Replacement Circuit Breakers are considered suitable, by Underwriters Laboratories, for use in another manufacturers' panel board
- Tested extensively in numerous GE, Square D, Siemens, Murray, Thomas and Betts and Crouse-Hinds panels
- Retailers can streamline inventory by carrying one manufacturer's circuit breakers vs. multiple manufacturers



UL Classified to fit Virtually Any Panel...
Even Square D® Homeline

CL Classified– Interchangeable Breakers 1”Type

Global No.	Description	Amp Rating	Square D® Homeline	Replaces					Case Qty
				Crouse Hinds	General Electric	ITE/Siemens	Murray	Thomas & Betts	
CL115	One Pole 120/240VAC 10,000 A/C	15	HOM115	MP115	THQL115	Q115	MP115	TB115	10
CL120		20	HOM120	MP120	THQL120	Q120	MP120	TB120	10
CL125		25	HOM125	MP125	THQL125	Q125	MP125	TB125	10
CL130		30	HOM130	MP130	THQL130	Q130	MP130	TB130	10
CL135		35	HOM135	MP135	THQL135	Q135	MP135	TB135	10
CL140		40	HOM140	MP140	THQL140	Q140	MP140	TB140	10
CL145		45	HOM145	MP145	THQL145	Q145	MP145	TB145	10
CL150		50	HOM150	MP150	THQL150	Q150	MP150	TB150	10
CL215	Two Pole 120/240VAC 10,000 A/C	15	HOM215	MP215	THQL215	Q215	MP215	TB215	5
CL220*		20	HOM220	MP220	THQL220	Q220	MP220	TB220	5
CL225		25	HOM225	MP225	THQL225	Q225	MP225	TB225	5
CL230*		30	HOM230	MP230	THQL230	Q230	MP230	TB230	5
CL235		35	HOM235	MP235	THQL235	Q235	MP235	TB235	5
CL240*		40	HOM240	MP240	THQL240	Q240	MP240	TB240	5
CL245		45	HOM245	MP245	THQL245	Q245	MP245	TB245	5
CL250*		50	HOM250	MP250	THQL250	Q250	MP250	TB250	5

*Available in Clamshell

CHQ Classified– Series 3/4” Type

Global No.	Description	Amp Rating	Square D®	Case Qty	Global No.	Description	Amp Rating	Square D®	Case Qty
CHQ115	One Pole 120/240VAC 10,000 A/C	15	Q0115	10	CHQ215	One Pole 120/240VAC 10,000 A/C	15	Q0215	5
CHQ120		20	Q0120	10	CHQ220		20	Q0220	5
CHQ125		25	Q0125	10	CHQ225		25	Q0225	5
CHQ130		30	Q0130	10	CHQ230		30	Q0230	5
CHQ135		35	Q0135	10	CHQ235		35	Q0235	5
CHQ140		40	Q0140	10	CHQ240		40	Q0240	5
CHQ145		45	Q0145	10	CHQ245		45	Q0245	5
CHQ150		50	Q0150	10	CHQ250		50	Q0250	5
					CHQ260	60	Q0260	5	

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Eaton Circuit Breakers

CH- Series 3/4" Type

Global No.	Description	Amp Rating	Case Qty
CH115	One Pole 120/240VAC 10,000 A/C	15	10
CH120		20	10
CH125		25	10
CH130		30	10
CH140		40	10
CH150		50	10
CH160	Two Pole 120/240VAC 10,000 A/C	60	10
CH215		15	5
CH220		20	5
CH225		25	5
CH230		30	5
CH235		35	5
CH240		40	5
CH245		45	5
CH250		50	5
CH260		60	5
CH270		70	5
CH280		80	5
CH2100	100	5	
CH2125	125	5	



CHGF- Series 3/4" Type

Ground Fault Circuit Interrupters (GFCI)

Global No.	Description	Amp Rating	Square D®	Case Qty
CHQ115GF	One Pole 120/240VAC 10,000 A/C	15	Q0115GFI	10
CHQ120GF		20	Q0120GFI	10
CHQ130GF		30	Q0130GFI	10
CHQ215GF	Two Pole 120/240VAC 10,000 A/C	15	Q0215GFI	5
CHQ220GF		20	Q0220GFI	5
CHQ230GF		30	Q0230GFI	5
CHQ240GF		40	Q0240GFI	5
CHQ250GF		50	Q0250GFI	5



CHQ Surge Arrester

Global No.	Description	Square D®	Case Qty
CHQSA	Two Pole 120/240VAC Phase to Ground	Q02175SB	10



Eaton Load Centers

1-Phase Main Lug Load Centers

- CH load centers are listed under UL File E8741
- Solid copper bus and branch fingers
- Multiple knockouts for easy installations



Surface Outdoor

Flush Outdoor

1-Phase 3-Wire — 120/240V AC— Insulated/Bondable Neutral

Global No.	Main Amp Rating	Max Number 3/4-inch (25.4mm)		Enclosure Type	Type of Trim (Included)	Box Size	Wire Size Range Cu/Al 60° C or 75° C for Main Lugs	
		Space	Poles					
CH2L40SP ②	40	2	4 ①	Indoor	Surface No Door	5	#14-6	
CH2L40RP ②③		2	4 ①	Outdoor	—	5R		
CH2L40FP ②		2	4 ①	Indoor	Flush No Door	5		
CH2L70SP ②	70	2	4 ①	Indoor	Surface No Door	5	#14-2	
CH2L70RP ②③		2	4 ①	Outdoor	—	5R		
CH2L70FP ②		2	4 ①	Indoor	Flush No Door	5		
CH2L125SP ②	125	2	4 ①	Indoor	Surface No Door	6	#14-1/10	
CH2L125RP ②③		2	4 ①	Outdoor	—	6R		
CH2L125FP ②		2	4 ①	Indoor	Flush No Door	6		
CH4L125SP ④		4	4	8 ①	Indoor	Surface No Door	7	#14-1/10
CH4L125RP ③④			4	8 ①	Outdoor	—	7R	
CH4L125FP ④			4	8 ①	Indoor	Flush No Door	7	
CH8L125SP ⑤		8	8	16 ①	Indoor	Surface No Door	7	#6-1/10
CH8L125RP ③⑤			8	16 ①	Outdoor	—	7R	
CH8L125FP ⑤			8	16 ①	Indoor	Flush No Door	7	

① Requires the use of CHNT breakers

② Suitable for use as service equipment when not more than two service disconnecting mains are provided or when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC)

③ Rainproof panels are furnished with hub closure plates.

④ Suitable for use as service equipment when not more than two service disconnecting mains are provided or when not more than six service disconnecting mains are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC)

⑤ Suitable for use as service equipment when a main breaker is used or when not more than six service disconnecting mains are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).

P Suffix = Specifically packaged for retail sales.

Equipment Ground Bar Kits

Global No.	Description
GBK5	For 2/4 Circuit
GBK10	For 4/8 & 8/16 Circuit



Box Size Chart (inches)

Box	H	W	D
5	9 7/16	4 1/2	3
5R	9 7/16	4 1/2	3
6	12	6 7/8	4 1/2
6R	12	6 7/8	4 1/2
7	13	11	3 9/16
7R	13	11	3 9/16

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Eaton Safety Switches

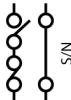
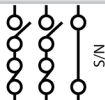

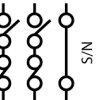
General Duty – Fusible

Eaton's general duty fusible safety switches offer premium function and safety features. They have ample wiring space, visible double break rotary blade mechanisms, a side opening door on all enclosures, interlocking mechanism to prevent easy access when the switch is in the ON position, and clearly visible ON/OFF indication.



DG325NRK

120/240V General Duty, Fusible, Single-Throw

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ①				NEMA 1 Enclosure In-door	NEMA 3R Enclosure Rainproof
			Single-Phase AC		Three-Phase AC	DC		
			120V	240V	240V	250V	Global/ Eaton No.	Global/ Eaton No.
Plug Type— Two-Wire (One Blade, One Fuse, S/N) - 120 Vac ②								
	30	Plug (Type S, T, or W)	1/2—2	—	—	—	DP111NGB	—
Plug Type— Three-Wire (Two Blades, Two Fuses, S/N) - 120/240 Vac								
	30	Plug (Type S, T, or W)	1/2—2	1-1/2—3	—	—	DP221NGB	DG221NRB
Cartridge Type—Two-Pole Two-Wire (Two Blades, Two Fuses) - 240 Vac								
	30	—	—	1-1/2—3	3—7-1/2	—	③	③
	60	—	—	3—10	7-1/2—15	—	③	③
	100	—	—	7-1/2—15	15—30	—	③	③
	200	—	—	15	25—60	—	③	③
	400	H	—	—	50—125	—	DG225FGK④⑤	DG225FRK④⑤
	600	H	—	—	75—200	—	DG226FGK④⑤	DG226FRK④⑤
Cartridge Type—Three-Wire (Two Blades, Two Fuses, S/N) - 120/240 Vac								
	30	H	—	1-1/2—3	3—7-1/2 ⑥	—	DG221NGB	DG221NRB
	60	H	—	3—10	7-1/2—15 ⑥	—	DG222NGB	DG222NRB
	100	H	—	7-1/2—15	15—30 ⑥	—	DG223NGB	DG223NRB
	200	H	—	15	25—60 ⑥	—	DG224NGK	DG224NRK
	400	H	—	—	50—125 ⑥	50	DG225NGK	DG225NRK
	600	H	—	—	75—200 ⑥	—	DG226NGK	DG226NGB

① Maximum hp ratings apply only when dual element time delay fuses are used.

② These switches do not have an interlock that prevents door from being opened when switch is in the ON position.

③ Use three-wire catalog numbers below.

④ Solid neutral bars are not included.

⑤ WARNING! Switch is not approved for service entrance unless a neutral kit is installed.

⑥ Grounded B phase rating, UL listed. All general-duty safety switches are individually packaged. Accessories are limited in scope on general-duty safety switches. In addition, clear line shields are available as an



Eaton Safety Switches

General Duty Cont.

120/240V General Duty, Fusible, Single-Throw								
System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ①				NEMA 1 Enclosure In-door	NEMA 3R Enclosure Rainproof
			Single-Phase AC		Three-Phase AC	DC		
			120V	240V	240V	250V	Global/ Eaton No.	Global/ Eaton No.
Cartridge Type—Two-Pole Two-Wire (Two Blades, Two Fuses) - 240 Vac								
	30	—	—	—	—	—	②	②
	60	—	—	—	—	—	②	②
	100	—	—	—	—	—	②	②
	200	—	—	—	—	—	②	②
	400	H	—	—	50–125	—	DG325FGK③④	DG325FRK③④
	600	H	—	—	75–200	—	DG326FGK③④	DG326FRK③④
Cartridge Type—Three-Wire (Two Blades, Two Fuses, S/N) - 120/240 Vac								
	30	H	—	1-1/2–3	3–7-1/2 ⑥	—	DG321NGB	DG321NRB
	60	H	—	3–10	7-1/2–15 ⑥	—	DG322NGB	DG322NRB
	100	H	—	7-1/2–15	15–30 ⑥	—	DG323NGB	DG323NRB
	200	H	—	15	25–60 ⑥	—	DG324NGK	DG324NRK
	400	H	—	—	50–125 ⑥	—	DG325NGK	DG325NRK
	600	H	—	—	75–200 ⑥	—	DG326NGK	DG326NRK

Notes

- ① Maximum hp ratings apply only when dual element time delay fuses are used.
- ② Use four-wire catalog numbers below.
- ③ Solid neutral bars are not included.
- ④ **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
- ⑤ Use three-wire catalog numbers below.
- ⑥ Drilled to accept field installed neutral kits.

All general-duty safety switches are individually packaged.

Accessories are limited in scope on general-duty safety switches. In addition, clear line shields are available as an accessory on 200–600A general-duty switches.

Catalog Numbers: 200A = 70-7759-11, 400A = 70-8063-8, 600A = 70-8064-8.



Eaton Safety Switches

General Duty – Non-Fusible

Eaton's general duty non-fusible safety switches provide a means to manually connect or disconnect the load from the source. They are available in NEMA 1 general purpose or NEMA 3R rainproof enclosures and are suitable for service entrance applications. Switches are load break rated.



DG321UGB

120/240V General Duty, Fusible, Single-Throw

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ①				NEMA 1 Enclosure In-door	NEMA 3R Enclosure Rainproof
			Single-Phase AC		Three-Phase AC	DC		
			120V	240V	240V	250V	Global/ Eaton No.	Global/ Eaton No.
Two-Pole Two-Wire (Two Blades) - 240 Vac								
	30	—	2	3	—	—	DG221UGB ④	DG221URB ④
	60	—	3	10	—	—	DG222UGB ④	DG222URB ④
	100	—	—	15	—	—	DG223UGB ④	DG223URB ④
	200	—	—	—	—	—	④ ⑤	④ ⑤
Three-Pole, Three-Wire (Three Blades) - 240 Vac								
	30	H	2	3	7-1/2	—	DG321UGB ④	DG321URB ④
	60	H	3	10	15	—	DG322UGB ④	DG322URB ④
	100	H	—	15	30	—	DG323UGB ④	DG323URB ④
	200	H	—	15	60	—	DG324UGK ④	DG324URK ④
	400	H	—	—	125	—	DG325UGK ⑥	DG325URK ⑥
	600	H	—	—	200	—	DG326UGK ⑥	DG326URK ⑥

Notes

- ① Maximum hp ratings apply only when dual element time delay fuses are used.
- ② Use four-wire catalog numbers below.
- ③ Solid neutral bars are not included.
- ④ **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
- ⑤ Use three-wire catalog numbers below.
- ⑥ Drilled to accept field installed neutral kits.

All general-duty safety switches are individually packaged.

Accessories are limited in scope on general-duty safety switches. In addition, clear line shields are available as an accessory on 200–600A general-duty switches.

Catalog Numbers: 200A = 70-7759-11, 400A = 70-8063-8, 600A = 70-8064-8.



Eaton Safety Switches

Heavy Duty– Fusible

Eaton's heavy duty fusible safety switches offer the ability to manually open and close a circuit and provide over-current protection by means of field-installed fuses. Switches are 100% load break and 100% load make rated and are suitable for service entrance use. Fuse pullers are built in on NEMA 4X and NEMA 12 enclosures through 200 amperes. Tangential knockouts on NEMA 1 and NEMA 3R enclosures through 200A.



DH361FRK

600 Vac Heavy Duty, Fusible, Single-Throw, 277/480-600V

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings with Time Delay Fuses						NEMA 1 Enclosure Indoor	NEMA 3R Enclosure Rainproof
			Single-Phase AC		Three-Phase AC		DC			
			120V	240V	240V	600V	250V	600V	Global/ Eaton No.	Global/ Eaton No.
Three-Pole– 480 Vac– 600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	7-1/2	10	15	20	—	—	DH361FGK	DH361FRK
	60	H	20	25	30	50	—	—	DH362FGK	DH362FRK
	100	H	30	40	60	75	—	—	DH363FGK	DH363FRK
	200	H	50	50	125	150	—	—	DH364FGK	DH364FRK
	400	H	—	—	250	350	—	—	DH365FGK	DH365FRK
	600	H	—	—	400	500	—	—	DH366FGK	DH366FRK
	800	L	—	—	500	500	—	—	DH367FGK	DH367FRK
	1200	L	—	—	500	500	—	—	DH368FGK	DH368FRK
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac– 600 Vac, 250 Vdc										
	30	H	7-1/2	10	15	20	—	—	DH361NGK	DH361NRK
	60	H	20	25	30	50	—	—	DH362NGK	DH362NRK
	100	H	30	40	60	75	—	—	DH363NGK	DH363NRK
	200	H	50	50	125	150	—	—	DH364NGK	DH364NRK
	400	H	—	—	250	350	—	—	DH365NGK	DH365NRK
	600	H	—	—	400	500	—	—	DH366NGK	DH366NRK
	800	L	—	—	500	500	—	—	DH367NGK	DH367NRK
	1200	L	—	—	500	500	—	—	DH368NGK	DH368NRK



Eaton Safety Switches

Heavy Duty– Non-Fusible

Eaton's heavy duty non-fusible safety switches provide a means to manually connect or disconnect the load from the source. The heavy duty non-fusible safety switch is available in a variety of enclosures including NEMA 1, 3R, 12, 4, and 4X. Switches are 100% load-break and 100% load-make rated and are suitable for service entrance use. Available from 30A to 1200A.



DH362URK

600 Vac Heavy Duty, Non-Fusible, Single-Throw, 277/480-600V

System	Ampere Rating	Maximum Horsepower Ratings with Time Delay Fuses								NEMA 1 Enclosure Indoor Global/ Eaton No.	NEMA 3R Enclosure Rainproof Global/ Eaton No.
		Single-Phase AC			Three-Phase AC			DC			
		240V	480V	600V	240V	480V	600V	250V	600V		
Three-Pole– 480 Vac– 600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)											
	30	3	7-1/2	10	10	20	30	5	—	DH361UGK	DH361URK
	60	10	20	25	20	50	60	10	—	DH362UGK	DH362URK
	100	20	40	50	40	75	100	20	—	DH363UGK	DH363URK
	200	15	50	50	60	125	150	40	—	DH364UGK	DH364URK
	400	—	—	—	125	250	350	50	—	DH365UGK	DH365URK
	600	—	—	—	200	400	500	—	—	DH366UGK	DH366URK
	800	—	—	—	—	500	500	—	—	DH367UGK	DH367URK
	1200	—	—	—	—	500	500	—	—	DH368UGK	DH368URK



Eaton Surge Protectors

Whole Home Surge Protectors - Type 2 Surge Protection (CHSPT2 Series)

Permanently connected Type 2 SPDs are intended for installation on the load side of the service equipment over current device, including SPDs located at the branch panel. CHSPT2 products provide Type 2 surge protection in accordance with UL 1449 3rd Edition. These units can be mounted out-side of any manufacturer's loadcenter or inside an Eaton Surge/Surge Ready loadcenter.

Features:

- AC power protection
- Available in Micro (Good), Max (Better) and Ultra (Best) series levels
- Universally connects to any manufacturer's loadcenter (breaker box)
- Quick connect design—easy to mount telephone and cable protection modules
- LED status indication



① CHSP installed at the service entrance panel.
② SurgeTrap™ surge traps and strips located where sensitive electronics are plugged in.



CHSPT2ULTRA



CHSPT2MAX



CHSPT2MICRO

Global No.	Enclosure	Voltage	Phase	Frequency	MCOV ①	VPR ②	I _n ③	SCCR ④	Surge Current Capacity ⑤
CHSPT2ULTRA	NEMA 4	120/240 Vac rated line voltage	Single	60	150V L-N, 300V L-L	600V L-N, 1000V L-L, 800V N-G, 600V L-G	20 kA ^⑥	22 kA	108 kA (L1-N 54 kA, L1-G 54 kA, L2-N 54 kA, L2-G 54 kA)
CHSPT2MAX	NEMA 4	120/240 Vac rated line voltage	Single	60	150V L-N, 300V L-L	600V L-N, 1000V L-L, 800V N-G, 600V L-G	10 kA	22 kA	72 kA (L1-N 36 kA, L1-G 36 kA, L2-N 36 kA, L2-G 36 kA)
CHSPT2MICRO	NEMA 4	120/240 Vac rated line voltage	Single	60	150V L-N, 300V L-L	600V L-N, 1000V L-L, 800V N-G, 600V L-G	5 kA	22 kA	36 kA (L1-N 18 kA, L1-G 18 kA, L2-N 18 kA, L2-G 18 kA)

① MCOV: Maximum Continuous Operating Voltage that may be applied to the device per mode.

② VPR: Voltage Protect on Rating is the measured limiting voltage after a surge event.

③ I_n: Nominal Discharge Current is the current that the device can withstand for 15 impulses.

④ SCCR: The amount of current the product can withstand under short-circuit conditions.

⑤ Surge Current Capacity: The maximum one time surge current rating per phase.

⑥ When used with a 50A two-pole circuit breaker, 10 kA when used with a 15A two-pole circuit breaker.

Customer Service: (800) 531-5967

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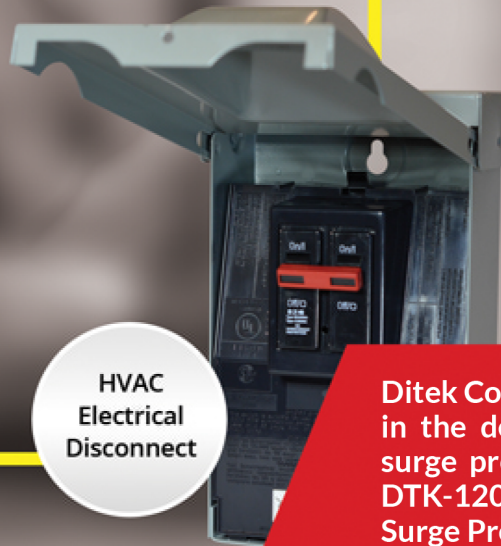


HVAC System Surge Protection

10 Year Warranty

DTK-120/240CM+

120/240V Single Phase Surge Protective Device - Type 2 SPD
Installed and wired to the load side of the disconnect



HVAC
Electrical
Disconnect



HVAC
Condenser

Ditek Corporation continues to lead the industry in the design and manufacture of low-voltage surge protection devices and systems. Ditek's DTK-120/240CM+ is a durable, cost-effective Surge Protective Device (SPD) suitable for use in a variety of locations.


Total Surge Solution



Power outages, surges and voltage transients can damage your heating and cooling system just like any other valuable electronic device. While a single electrical event may show no obvious signs of damage, repeated surges cause gradual deterioration of the systems internal circuitry. Ditek's HVAC system surge protective devices help prevent equipment loss from these damaging electrical events.

Technical Specifications	
Service Voltage:	120/240VAC
MCOV:	130/260V
Protection Modes:	L-G, L-L
Voltage Protection Rating:	500V L-G, 900V L-L
Surge Current Rating:	36,000 Amps per phase
SCCR:	10,000 Amps
Nominal Discharge Current Rating (In):	10kA
Operation Frequency:	50/60Hz

Mechanical Characteristics	
Connection Method:	3/4" NPT threaded fitting
Housing:	NEMA 4X
Operating Temperature:	-31°F - 185°F (-35°C - 85°C)
Maximum Humidity:	95% non-condensing
Dimensions:	2.83"L x 1.68"W x 2.93"H (71.9mm x 42.7mm x 74.4mm)
Weight:	0.5 lb (227g)

 1449 Listed

Phone: 1.800.531.5967 **Web:** globalthesource.com

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Ditek Surge Protectors



Ditek Surge Protectors				
Global No.	Description	Weight	Case QTY	
D100-120/2083Y	100KA/PHASE 120/208 VAC 3-PHAS	38.4 oz	1	
D100-277/4803Y	100KA/PHASE 277/480 VAC 3-PHAS	39.2 oz	1	
D50-120/2083Y	120/280-3Y VAC, 50KA, SPD TYPE	20.8 oz	1	
D50-277/4803Y	277/480-3Y VAC, 50KA, SPD TYPE	21.6 oz	1	
D50-4803D	480 VAC SURGE PROTECTOR	20 oz	1	
DTK-120/240CM+	SURGE PROTECTIVE DEVICE	11.2 oz	12	
DTK-120/240HD2	100,000 Amp Residential/Light	34.4 oz	1	
DTK-120/240SA	120/240VAC SUPPRESSOR, 100KA 2W	29.6 oz	1	
DTK-120HW	120V - 15A PARALLEL SURGE PROT	11.2 oz	12	
DTK-1LVPLV	LOW VOLTAGE LINE PROTECTION -	2.4 oz	12	
DTK-2401CMXPLUS	240V SINGLE PHASE ARRESTER W/	16 oz	9	
DTK-2403CMXPLUS	3 PHASE SECONDARY SURGE ARREST	16.8 oz	9	
DTK-2LVPLV	LOW VOLTAGE LINE PROTECTION -	2.4 oz	12	
DTK-2MHLP24BWB	24V, 2 Pair, Hybrid Field Repl	3.2 oz	12	
DTK-4803CMXPLUS	480V 3PHASE ARRESTER W/ LED DI	16.8 oz	9	
DTK-4LVPLV	LOW VOLTAGE LINE PROTECTION -	32 oz	12	
DTK-MRJ45C5E	4 pair - Ethernet RJ45 In/Out	32 oz	12	



DITEK's CMXPLUS secondary surge arresters are ideal for a variety of industrial equipment. The DTK-2403CMXPLUS offers 240VAC three phase delta surge protection.



The DTK-120HW provides surge protection for 120VAC equipment panels and dedicated branch circuits. The compact, parallel-mount design allows for installation in a variety of locations.



Fuses

Fuse Accessories
Auto-Reset Fuse Kit
Class CC
Class RK5
Small Dimension
Low Voltage

Bussmann® - Fuse Holders

HLQ

- UL Recognized, Guide IZLT2, File E14853
- CSA Certified, Class 6225-01, File 47235
- Fuse and knob are an integral one-piece unit. There are no replacement knobs (caps)
- HLQ carrier comes with 6" of #18 red insulated solid copper wire attached to the line side

HLR

- UL Recognized, 12A, 300 Vac, Guide IZLT2, File E14853
- CSA Certified, 12A, 300 Vac, Class 6225-01, File 47235
- HLQ carrier comes with 6" of #18 red insulated solid copper wire attached to the line side

HRF

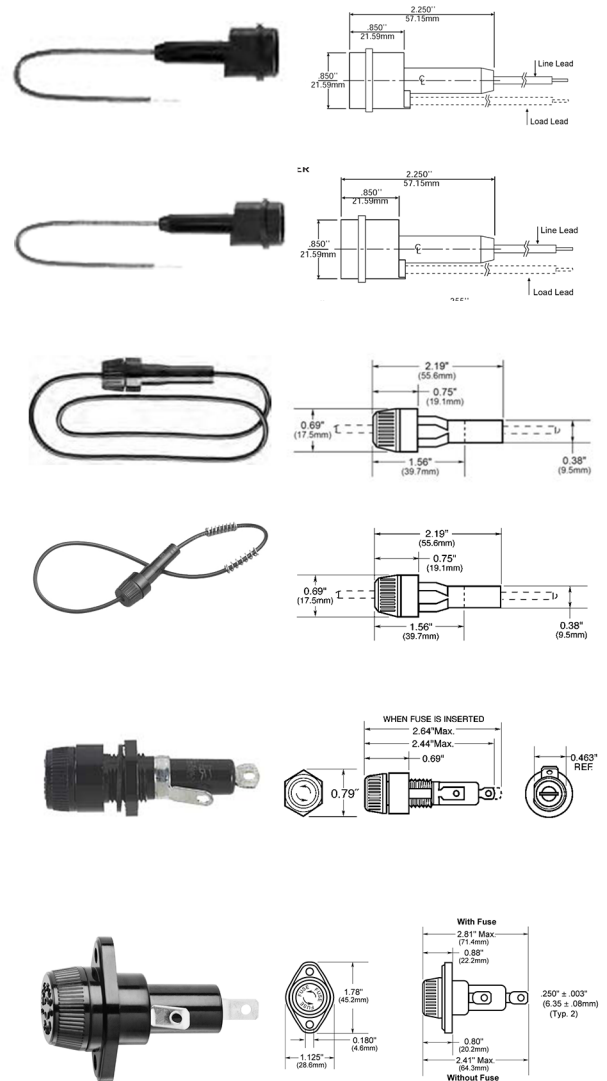
- Bayonet type knob
- Temperature Rating (RTI): 140°C
- HRK
- 8" (203mm) #14 lead wires
- Three springs furnished to accept different fuse lengths
- Flammability rating: UL 94V0

HKP-HH

- UL Recognized: IZLT2, E14853
- CSA Component Acceptance: Class 6225-01, File 47235
- For 1/4" x 1 1/4" (6.3 x 32mm) fuses
- Bayonet-type knob
- Vibration resistant

HPS-RR

- Agency Information: UL Recognized, Guide IZLT2, File E14853
- CSA Certified: Class 6225-01, File 47235
- Flammability Rating: UL 94 HB
- Bayonet-type knob
- Combination 1/2" quick-connect/solder terminals (Standard solder type terminals available.)
- The -EE, -JJ, -FF, and -RR holders are UL Recognized for applications requiring branch circuit protection
- Do not put tension on line (rear) terminal



Fuse Holders

Global No.	Other	Mars No.	Description	Case Qty 10
HLQ	—	81607	In-Line Fuse Holder for GMQ & GLQ Fuses	
HLR	LHR000 (Littelfuse)	—	In-Line Fuse Holder for GLR, GMF, & GRF Fuses, 12A, 300V	
HRF	—	—	In-Line Fuse Holder for SFE Fuse, 20A, 32V	
HRK	—	81993	In-Line Universal Fuse Holder, 1/4" Diameter	
HKP-HH	—	82994	Panel Mount Fuse Holder w/ 1/4" quick-connect, 15A, 250V	
HPS-RR	—	82991	Panel Mount Fuse Holder for Class CC fuses , 30A, 600V	



Bussmann® - Fuse Reducers

263- Fuse Reducers for Class H & K Dimension Fuses: NON, REN, NOS, RES

263-R- Fuse Reducers for Class R Dimension Fuses: FRN-R, LPN-RK, FRS-R, LPS-RK KTN-R, KTS-R

Features and Benefits:

- Fuse reducers install in fuse clips to permit the installation of smaller size fuses than those for which the clips are designed
- Reducers fit into most panels or switches including the dead-front type
- Strong contact is maintained both mechanically and electrically
- There are no reducers to go from 250V to 600V or 600V to 250V
- There are no reducers for switching from one Class to another
- There are no reducers for Class T fuses
- By design Class L fuses do not require reducers
- UL Listed (Guide # IZZR, File #E12853)
- CSA Certified (Class 6225-01, File #47235)



Fuse Reducers - Case Qty 4

Global No.	Mars No.	Poly Bag	Fuse Block Size (Amps)	Fuse Size (Amps)	Description
263	81975	X	60	30	NON 250V Class H Reducers
263R	—		60	30	FRN-R 250V Class R Reducers

Heat Limiters

Heat Limiter - Case Qty 4

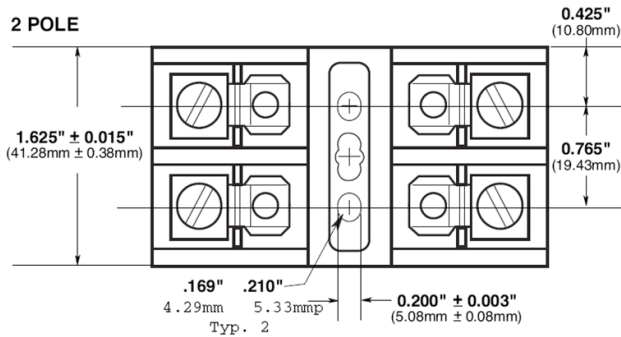
Global No.	Mars No.	Description
WUR	81975	Heat Limiter
WZJ	—	Heat Limiter



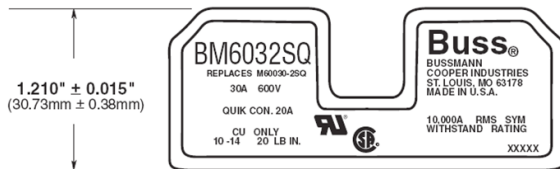
Bussmann® - Fuse Blocks

BM Series- Type M Supplementary Fuseblocks

- Ampere Rating: 1/10 to 30 Amperes
- Voltage Rating: 600 Volts AC
- Withstand Rating: 10,000 A RMS Sym. or interrupting rating of the fuse used, whichever is lower.
- Agency Information:
 - U.L. Recognized, U.L. 512, Guide IZLT2, File E14853, CSA Certified, C22.2 No. 39, Class 6225-01, File 47235. For use with any 13/32" X 1 1/2" Fuses (Bussmann KTK, FNQ, FNM, BAF, BAN and AGU)
- U.L. Flammability: 94 V0
- Torque Rating: 18 lb-in
- Material: Thermoplastic Customer



FUSEBLOCK LABEL (EXAMPLE SHOWN)



Fuse Blocks - Case Qty 10

Global No.	Description
BM6032SQ	Supplementary Fuse Block for 13/32" X 1-1/2" Fuses, 2 Pole



Bussmann® - Fuse Box Covers

Box covers for standard electrical boxes that provide fused outlet, fused switch or circuit fuse protection

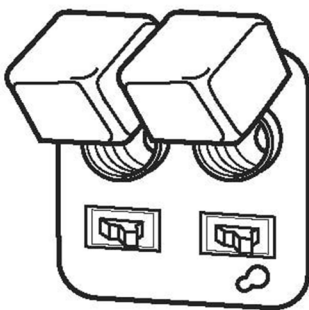
Features and Benefits:

- Cooper Bussmann® Box Cover Units provide a low-cost method of controlling and protecting small motors when used with Cooper Bussmann® Type T, FuseTron® , dual element fuses
- Provide low-cost supplementary protection and disconnection of 125V or less, single phase circuits



Fuse Box Cover

Global No.	Replaces		Box Type	Receptacle Fuseholder		Outlet to Load		Switch Control ¹	Motor Size (Max.)	General Data	Agency Information
	Other	Mars No.		Single	Double	125V	250V				
SRU	ESRU (Edison)	84793	2 1/4" Handy	X		X			1/2" HP	125V, 15A	U.L.
SSU	CSU (Cefco), ESSU (Edison)	84795		X				X	1/2" HP	125 Vac (do not use on dc), 15A	U.L., CSA
SSX	—	84814	4" Octagon	X				X	1/2" HP	125 Vac (do not use on dc), 15A	U.L., CSA
SSY	CSY (Cefco)	84794	4" Square	X				X	1/2" HP	125 Vac (do not use on dc), 15A	U.L., CSA
SCY	—	—				X		X (2)	1/2" HP (2)	125 Vac (do not use on dc); can protect two motors, 15A	U.L.



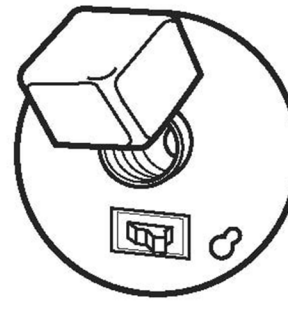
SCY



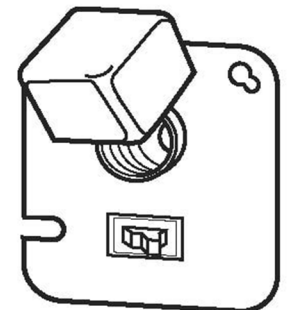
SRU



SSU



SSX



SSY



Auto-Reset Fuse Kit

Auto-Reset Fuse Kit

The Auto-Reset Fuse kit is a solid-state device that resets when short is removed. Wires simply plug into most plastic-type fuse sockets. Terminals are also included for wire-in applications.

Features and Benefits:

- Saves time and money– no more running to the parts store to replace burned out fuses
- One year warranty

Global No.	Description	Case Qty
GARF-3	3 Amp, 40 Volt	25
GARF-5	5 Amp, 75 Volt	25





Class CC Fuses

Bussmann® - Time Delay

Time-Delay, Branch Circuit, Rejection-Type Fuse

Dimensions: 13/32" x 1-1/2" (10.3 x 38.1mm)

Volts: 600Vac (or less), 300Vdc (15-20A)

Amps: 1/4-30A

IR: 200kA RMS Sym, 20kA DC

Agency Information: CE, Std. 248-4, Class CC, UL Listed, Guide JDDZ, File E4273, CSA Certified; Class 1422-02, File 53787

Typical Applications:

- Line Protection, Small Control Transformers
- Industrial Control
- Isolated, In-Line Fuse Holders

Features:

- Time delay compatible with inrush characteristic of small control transformers
- Current limitation at Class CC levels provides maximum component short-circuit current rating protection
- 200kA interrupting rating provides high ratings for control circuit locations
- Class CC rejection feature, with appropriate fuse block, prevents inserting lesser-rated supplementary fuses



FNQ-R - Case Qty 10

Global No.	Description	Mars No.	Other
FNQ-R-1/2	600V 13/32" x 1-1/2" Time Delay 1/2A	82933	
FNQ-R-1	600V 13/32" x 1-1/2" Time Delay 1A	82936/82715	
FNQ-R-1-3/10	600V 13/32" x 1-1/2" Time Delay 1-3/10A	—	
FNQ-R-1-1/2	600V 13/32" x 1-1/2" Time Delay 1-1/2A	—	
FNQ-R-2	600V 13/32" x 1-1/2" Time Delay 2A	82941	
FNQ-R-2-1/2	600V 13/32" x 1-1/2" Time Delay 2.5A	—	
FNQ-R-3	600V 13/32" x 1-1/2" Time Delay 3A	82942/82716	
FNQ-R-3.5	600V 13/32" x 1-1/2" Time Delay 3.5A	—	ATQR (Ferraz/Shawmut)
FNQ-R-4	600V 13/32" x 1-1/2" Time Delay 4A	82943	
FNQ-R-5	600V 13/32" x 1-1/2" Time Delay 5A	82944	HCTR (Edison)
FNQ-R-6	600V 13/32" x 1-1/2" Time Delay 6A	82945	
FNQ-R-7-1/2	600V 13/32" x 1-1/2" Time Delay 7-1/2A	—	KLDR (Littelfuse)
FNQ-R-8	600V 13/32" x 1-1/2" Time Delay 8A	—	
FNQ-R-10	600V 13/32" x 1-1/2" Time Delay 10A	82947	
FNQ-R-15	600V 13/32" x 1-1/2" Time Delay 15A	82227	
FNQ-R-20	600V 13/32" x 1-1/2" Time Delay 20A	82948	
FNQ-R-25	600V 13/32" x 1-1/2" Time Delay 25A	—	
FNQ-R-30	600V 13/32" x 1-1/2" Time Delay 30A	—	



Class CC Fuses

Bussmann® - Fast-Acting

Fast-Acting, Branch Circuit, Rejection-Type Fuse

Dimensions:

13/32" x 1-1/2" (10.3 x 38.1mm)

Volts: 600Vac (or less)

Amps: 1/10-30A

IR: 200kA RMS Sym

Agency Information: CE, Std. 248-4, Class CC, UL Listed, Guide JDDZ, File E4273, CSA Certified, File 53787, Class 1422-02

Typical Applications:

- Specialized Circuits
- Industrial Control
- Isolated, In-Line Fuse Holders (streetlighting)

Features:

- Current limitation at Class CC levels provides maximum component short-circuit current protection
- 200kA interrupting rating provides high ratings for control circuit locations
- Class CC rejection feature, with appropriate fuse block, prevents inserting lesser-rated supplementary fuses



KTK-R - Case Qty 10

Global No.	Description	Mars No.	Other
KTK-R-2/10	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-3/10	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-6/10	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-3/4	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-1/2	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-1	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-1-1/2	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-2	600V 13/32" x 1-1/2" Fast Acting	82977	
KTK-R-2-1/2	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-3	600V 13/32" x 1-1/2" Fast Acting	82966	
KTK-R-3-1/2	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-4	600V 13/32" x 1-1/2" Fast Acting	82967	ATMR (Gould)
KTK-R-5	600V 13/32" x 1-1/2" Fast Acting	—	CTK-R (Cefco)
KTK-R-6	600V 13/32" x 1-1/2" Fast Acting	—	HCLR (Edison)
KTK-R-7	600V 13/32" x 1-1/2" Fast Acting	—	KLKR (Littelfuse)
KTK-R-8	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-9	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-10	600V 13/32" x 1-1/2" Fast Acting	82971	
KTK-R-12	600V 13/32" x 1-1/2" Fast Acting	82976	
KTK-R-15	600V 13/32" x 1-1/2" Fast Acting	82968	
KTK-R-20	600V 13/32" x 1-1/2" Fast Acting	82981	
KTK-R-25	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-30	600V 13/32" x 1-1/2" Fast Acting	—	
KTK-R-100	600V 13/32" x 1-1/2" Fast Acting	—	



Class RK5 Fuses

Bussmann - Dual Element, Time Delay

Dual Element, Time-Delay Fuse

*ECN-R replaces HAC-R

Volts: 250Vac (or less), 125Vdc

Amps: 1-600A

IR: 200kA RMS Sym

Agency Information: CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E162363, CSA Certified, C22.2 No. 248.12, Class 1422-02, File 700489

Typical Applications:

- AC power distribution system mains, feeders, and branch circuits Industrial Control
- Protection of motors and motor branch circuits
- Protection of transformers and other inductive loads
- All general-purpose applications including lighting, heating and other non-inductive loads

Features:

- True dual-element construction allows sizing of 125% FLA for motor backup protection.
- Superior overload and cycling capabilities.
- Current limiting provides component short-circuit protection.



1-60Amp, 70-600Amp

ECN-R Case Qty 10

Global No.	Description	Mars No.	Other
ECNR5	250V Dual Element Time Delay 5A	82024	
ECNR10	250V Dual Element Time Delay 10A	82032	
ECNR15	250V Dual Element Time Delay 15A	82034	CRNR (Cefco)
ECNR20	250V Dual Element Time Delay 20A	82036	FLNR (Littelfuse)
ECNR25	250V Dual Element Time Delay 25A	82037	FRNR
ECNR30	250V Dual Element Time Delay 30A	82038	(Bussmann)
ECNR35	250V Dual Element Time Delay 35A	82039	HACR
ECNR40	250V Dual Element Time Delay 40A	82040	(Bussmann)
ECNR45	250V Dual Element Time Delay 45A	82041	
ECNR50	250V Dual Element Time Delay 50A	82042	LONR (Cefco)
ECNR60	250V Dual Element Time Delay 60A	82043	TR (Ferraz/
ECNR70	250V Dual Element Time Delay 70A	82044	Shawmut)
ECNR80	250V Dual Element Time Delay 80A	82045	
ECNR100	250V Dual Element Time Delay 100A	82074	TRR (Ferraz/
ECNR125	250V Dual Element Time Delay 125A	82049	Shawmut)
ECNR200	250V Dual Element Time Delay 200A	82052	



Class RK5 Fuses

Bussmann - Dual Element, Time Delay

Dual Element, Time-Delay Fuse -- 10 seconds (minimum) at 500% rated amps, Current-Limiting

*ECSR replaces DLSR

Volts: 600Vac (or less), 200Vdc

Amps: 1-600A

IR: 200kA RMS Sym

Agency Information: CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E162363, CSA Certified, HRCI-R C22.2 No. 248.12, Class 1422-02, File 53787

Typical Applications:

- AC power distribution system mains, feeders, and branch circuits Industrial Control
- Protection of motors and motor branch circuits
- Protection of transformers and other inductive loads
- All general-purpose applications including lighting, heating and other non-inductive loads

Features:

- True dual-element construction allows sizing of 125% FLA for motor backup protection.
- Superior overload and cycling capabilities.
- Current limiting provides component short-circuit protection.



1-60Amp, 70-600Amp

ECSR - Case Qty 10

Global No.	Description	Mars No.	Other
ECSR5	600V Dual Element Time Delay 5A	82124	
ECSR10	600V Dual Element Time Delay 10A	82132	
ECSR15	600V Dual Element Time Delay 15A	82134	
ECSR20	600V Dual Element Time Delay 20A	82136	CRN-R (Cefco)
ECSR25	600V Dual Element Time Delay 25A	82137	FLNR (Littelfuse)
ECSR30	600V Dual Element Time Delay 30A	82138	FRN-R
ECSR35	600V Dual Element Time Delay 35A	82139	(Bussmann)
ECSR40	600V Dual Element Time Delay 40A	82140	HAC-R
ECSR45	600V Dual Element Time Delay 45A	82147	(Bussmann)
ECSR50	600V Dual Element Time Delay 50A	82141	LON-R (Cefco)
ECSR60	600V Dual Element Time Delay 60A	82142	
ECSR70	600V Dual Element Time Delay 70A	82143	TR (Ferraz/
ECSR80	600V Dual Element Time Delay 80A	82144	Shawmut)
ECSR90	600V Dual Element Time Delay 90A	82145	
ECSR100	600V Dual Element Time Delay 100A	82146	TRR (Ferraz/
ECSR125	600V Dual Element Time Delay 125A	82148	Shawmut)
ECSR150	600V Dual Element Time Delay 150A	82149	
ECSR200	600V Dual Element Time Delay 200A	82151	



Class RK5 Fuses

Bussmann® - Dual Element, Time Delay

Dual Element, Time-Delay Fuse -- 10 seconds (minimum) at 500% rated amps, Current-Limiting

Volts: 250Vac (or less), 125Vdc (1/10-60A, 110-200A), 250Vdc (225-600A)

Amps: 1/10-400A

IR: 200kA RMS Sym, 20kA DC

Agency Information: CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787

Typical Applications:

- Power Panel Boards
- Motor Control Centers
- Combination Starters
- Machinery Disconnects

Features:

- Separate overload and short-circuit elements provide time delay for sizing as close as 125% of motor FLA
- 2:1 selective coordination amp ratio (within the Cooper Bussmann RK5 fuse family) prevents over current events from opening upstream Fusetron fuses
- Insulated end caps for 225A-600A fuses reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing



1/10-60Amp, 70-600Amp

FRN-R - Case Qty 10

Global No.	Description	Mars No.	Other
FRN-R-1/10	250V Dual Element Time Delay 1/10A	—	
FRN-R-3/10	250V Dual Element Time Delay 3/10A	—	
FRN-R-6/10	250V Dual Element Time Delay 6/10A	—	
FRN-R-1/2	250V Dual Element Time Delay 1/2A	82006	
FRN-R-1	250V Dual Element Time Delay 1A	82009	
FRN-R-1-1/4	250V Dual Element Time Delay 1-1/4A	—	
FRN-R-2-1/2	250V Dual Element Time Delay 2.5A	82017	CRN-R (Cefco)
FRN-R-3	250V Dual Element Time Delay 3A	82019	FLNR (Littelfuse)
FRN-R-3-2/10	250V Dual Element Time Delay 3-2/10A	82020	LON-R (Cefco)
FRN-R-4	250V Dual Element Time Delay 4A	82021	
FRN-R-5	250V Dual Element Time Delay 5A	82024	
FRN-R-6	250V Dual Element Time Delay 6A	82026	TR (Ferraz/Shawmut)
FRN-R-6-1/4	250V Dual Element Time Delay 6-1/4A	82027	
FRN-R-7	250V Dual Element Time Delay 7A	82029	
FRN-R-8	250V Dual Element Time Delay 8A	82030	
FRN-R-10	250V Dual Element Time Delay 10A	82032	TRR (Ferraz/Shawmut)
FRN-R-15	250V Dual Element Time Delay 15A	82034	
FRN-R-17.5	250V Dual Element Time Delay 17.5A	82035	
FRN-R-20	250V Dual Element Time Delay 20A	82036	
FRN-R-25	250V Dual Element Time Delay 25A	82037	
FRN-R-30	250V Dual Element Time Delay 30A	82038	



Class RK5 Fuses

Bussmann - Dual Element, Time Delay

FRN-R Cont. - Case Qty 10

Global No.	Description	Mars No.	Other
FRN-R-35	250V Dual Element Time Delay 35A	82039	
FRN-R-40	250V Dual Element Time Delay 40A	82040	
FRN-R-45	250V Dual Element Time Delay 45A	82041	
FRN-R-50	250V Dual Element Time Delay 50A	82042	
FRN-R-60	250V Dual Element Time Delay 60A	82043	CRN-R (Cefco)
FRN-R-70	250V Dual Element Time Delay 70A	82044	FLNR (Littelfuse)
FRN-R-75	250V Dual Element Time Delay 75A	—	LON-R (Cefco)
FRN-R-80	250V Dual Element Time Delay 80A	82045	
FRN-R-90	250V Dual Element Time Delay 90A	82046	TR (Ferraz/ Shawmut)
FRN-R-100	250V Dual Element Time Delay 100A	82047	
FRN-R-110	250V Dual Element Time Delay 110A	82048	TRR (Ferraz/ Shawmut)
FRN-R-125	250V Dual Element Time Delay 125A	82049	
FRN-R-150	250V Dual Element Time Delay 150A	82050	
FRN-R-200	250V Dual Element Time Delay 200A	82052	
FRN-R-300	250V Dual Element Time Delay 300A	—	
FRN-R-400	250V Dual Element Time Delay 400A	82056	



Class RK5 Fuses

Bussmann - Dual Element, Time Delay

Dual Element, Time-Delay Fuse -- 10 seconds (minimum) at 500% rated amps

Volts: 600Vac (or less), 300Vdc

Amps: 1/10-600A

IR: 200kA RMS Sym., 20kA @ 300Vdc

Agency Information: CE, Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-02, File 53787

Typical Applications:

- Power Panel Boards
- Motor Control Centers
- Combination Starters
- Machinery Disconnects

Features:

- 2:1 selective coordination ratio (within RK5 fuse family) prevents electrical shut-downs from extending beyond the failed circuit
- Insulated end caps for 70-600A fuses reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing



1/10-60Amp, 70-600Amp

FRS-R - Case Qty 10

Global No.	Description	Mars No.	Other
FRS-R-3/10	600V Dual Element Time Delay 3/10A	—	
FRS-R-4/10	600V Dual Element Time Delay 4/10A	—	
FRS-R-1	600V Dual Element Time Delay 1A	82109	
FRS-R-2.5	600V Dual Element Time Delay 2.5A	—	
FRS-R-3-1/2	600V Dual Element Time Delay 3.5A	—	
FRS-R-5	600V Dual Element Time Delay 5A	82124	
FRS-R-6	600V Dual Element Time Delay 6A	82125	
FRS-R-10	600V Dual Element Time Delay 10A	82132	
FRS-R-15	600V Dual Element Time Delay 15A	82134	CRS-R (Cefco)
FRS-R-17	600V Dual Element Time Delay 17A	—	FLSR (Littelfuse)
FRS-R-20	600V Dual Element Time Delay 20A	82136	FRS-R
FRS-R-25	600V Dual Element Time Delay 25A	82137	(Bussmann)
FRS-R-30	600V Dual Element Time Delay 30A	82138	LOS-R (Cefco)
FRS-R-35	600V Dual Element Time Delay 35A	82139	TRS (Ferraz/ Shawmut)
FRS-R-40	600V Dual Element Time Delay 40A	82140	
FRS-R-45	600V Dual Element Time Delay 45A	82147	
FRS-R-50	600V Dual Element Time Delay 50A	82141	
FRS-R-60	600V Dual Element Time Delay 60A	82142	
FRS-R-70	600V Dual Element Time Delay 70A	82143	TRSR (Ferraz/ Shawmut)
FRS-R-80	600V Dual Element Time Delay 80A	82144	
FRS-R-90	600V Dual Element Time Delay 90A	82145	
FRS-R-100	600V Dual Element Time Delay 100A	82146	
FRS-R-125	600V Dual Element Time Delay 125A	82148	
FRS-R-150	600V Dual Element Time Delay 150A	82149	
FRS-R-200	600V Dual Element Time Delay 200A	82151	
FRS-R-400	600V Dual Element Time Delay 400A	—	



Small Dimension Fuses

Bussmann® - 1/4" X 1"

Fast-Acting Fuse

Dimensions: 1/4" x 1" (6.4 x 25.4mm)

Volts: 250Vac (1/200-10A), 32Vac (15-30A)

Amps: 1/200-30A

IR: 35A (1/200-1A @ 250Vac), 100A (1-1/4-3A @ 100Vac), 200A 410A @ 250Vac
1000A (15-30A @ 32Vac)

Agency Information: CE, Std. 248-14, UL File E19180 UL Listed, Guide JDYX, 0-5A
UL Recognized, Guide JDYX2, 6-20A CSA File 53787; Class 1422-01

Typical Applications: Electronic Circuits

Features:

- Size rejects insertion of other fuse types



AGX - Case Qty 10

Global No.	Description	Mars No.	Other
AGX-1/10	250V 1/4" x 1" Fast Acting 1/10A	—	
AGX-1/4	250V 1/4" x 1" Fast Acting 1/4A	—	
AGX-1/2	250V 1/4" x 1" Fast Acting 1/2A	82484	
AGX-1	250V 1/4" x 1" Fast Acting 1A	82486	
AGX-1-1/2	250V 1/4" x 1" Fast Acting 1.5A	—	
AGX-2	250V 1/4" x 1" Fast Acting 2A	82488	361 (Littelfuse)
AGX-3	250V 1/4" x 1" Fast Acting 3A	—	8AG (Cefco)
AGX-4	250V 1/4" x 1" Fast Acting 4A	—	BGX (Brush)
AGX-5	250V 1/4" x 1" Fast Acting 5A	—	EGX GGX (Fer-raz/Shawmut)
AGX-6	250V 1/4" x 1" Fast Acting 6A	—	
AGX-7	250V 1/4" x 1" Fast Acting 7A	—	
AGX-8	250V 1/4" x 1" Fast Acting 8A	—	
AGX-10	250V 1/4" x 1" Fast Acting 10A	—	
AGX-15	250V 1/4" x 1" Fast Acting 15A	—	
AGX-20	250V 1/4" x 1" Fast Acting 20A	—	
AGX-25	250V 1/4" x 1" Fast Acting 25A	—	



Small Dimension Fuses

Bussmann® - 1/4" X 1 1/4"

Fast-Acting Fuse

Dimensions: 1/4" x 1 1/4" (6.4 x 31.7mm)

Volts: 250Vac/125Vdc (1/4-15A, 20-30A)*, 250Vac (18A)

Amps: 1/4-30A

IR: 35A (1/4-1A @ 250Vac), 100A (1 1/2-3A @ 250Vac), 200A (4-10A @ 250Vac), 750A (12-15A @ 250Vac), 400A (18-20A @ 250Vac), 10kA (1/4-15A @ 125Vac), 1kA (18-30A @ 125Vac), 10kA (1/4-15, 20A @ 125Vdc), 400A (25-30A @ 125Vdc), 200A (25-30A @ 250Vac)

Agency Information: CE, Std. 248-14 UL Listed, Guide JDYX File E19180, 1/4-15A; UL Recognized, Guide JDYX2, File E19180, 18-30A; CSA Certification, Class 1422-01 & 1422-30, File 53787, 1/4-30A

Typical Applications: Electronic Circuits

Construction: Ceramic tube with nickel-plated brass end caps

Features:

- Ceramic body allows for higher amp/volt rating combinations



ABC - Case Qty 10

Global No.	Description	Mars No.	Other
ABC-1	250V 1/4" x 1-1/4" Fast Acting 1A	82404	314 (Littelfuse) 3AB (Cefco) BBC (Brush) GAB (Ferraz/ Shawmut)
ABC-2	250V 1/4" x 1-1/4" Fast Acting 2A	82405	
ABC-3	250V 1/4" x 1-1/4" Fast Acting 3A	82407	
ABC-4	250V 1/4" x 1-1/4" Fast Acting 4A	82408	
ABC-5	250V 1/4" x 1-1/4" Fast Acting 5A	82409	
ABC-7	250V 1/4" x 1-1/4" Fast Acting 7A	82411	
ABC-8	250V 1/4" x 1-1/4" Fast Acting 8A	82412	
ABC-10	250V 1/4" x 1-1/4" Fast Acting 10A	82413	
ABC-12	250V 1/4" x 1-1/4" Fast Acting 12A	82414	
ABC-15	250V 1/4" x 1-1/4" Fast Acting 15A	82415	
ABC-20	250V 1/4" x 1-1/4" Fast Acting 20A	82416	
ABC-25	250V 1/4" x 1-1/4" Fast Acting 25A	82417	
ABC-30	250V 1/4" x 1-1/4" Fast Acting 30A	82418	



Small Dimension Fuses

Bussmann® - 1/4" X 1 1/4"

Fast-Acting Fuse

Dimensions: 1/4" x 1 1/4" (6.4 x 31.7mm)

Volts: 250Vac (1/20-10A) 32Vac (12-30A)

Amps: 1/20-30A

IR: 35A (1/20-1A @ 250Vac), 100A (1 1/4-3A @ 250Vac), 200A (4-10A @ 250Vac), 10kA (1/20-10A @ 125Vac), 1000A (12-30A @ 32Vac)

Agency Information: CE, UL Listed, Guide JDYX, File E19180,0-10A UL Recognized, Guide JDYX2, File E19180, 12-30A CSA Certification, Class 1422-01, File 053787, 1/20-30A

Typical Applications: Electronic Circuits

Construction: Glass tube with nickel-plated brass end caps

Features:

- Original electronic glass tube fuse
- Fast-acting for maximum protection
- Wide amp/volt ratings allow versatility of protecting electronic circuits



AGC - Case QTY 5

Global No.	Description	Mars No.	Other
AGC-6/10	250V 1/4" x 1-1/4" Fast Acting 6/10A	—	
AGC-1/8	250V 1/4" x 1-1/4" Fast Acting 1/8A	—	
AGC-1/4	250V 1/4" x 1-1/4" Fast Acting 1/4A	82450	
AGC-3/8	250V 1/4" x 1-1/4" Fast Acting 3/8A	—	
AGC-1/2	250V 1/4" x 1-1/4" Fast Acting 1/2A	82009	
AGC-3/4	250V 1/4" x 1-1/4" Fast Acting 3/4A	82445	
AGC-1	250V 1/4" x 1-1/4" Fast Acting 1A	82456	
AGC-1-1/4	250V 1/4" x 1-1/4" Fast Acting 1-1/4A	82457	CRN-R (Cefco)
AGC-1-1/2	250V 1/4" x 1-1/4" Fast Acting 1-1/2A	82458	FLNR (Littelfuse)
AGC-2	250V 1/4" x 1-1/4" Fast Acting 2A	82460	LON-R (Cefco)
AGC-2.5	250V 1/4" x 1-1/4" Fast Acting 2.5A	82461	
AGC-3	250V 1/4" x 1-1/4" Fast Acting 3A	82462	TR (Ferraz/Shawmut)
AGC-3-2/10	250V 1/4" x 1-1/4" Fast Acting 3-2/10A	82459	
AGC-3-1/2	250V 1/4" x 1-1/4" Fast Acting 3-1/2A	—	TRR (Ferraz/Shawmut)
AGC-4	250V 1/4" x 1-1/4" Fast Acting 4A	82463	
AGC-5	250V 1/4" x 1-1/4" Fast Acting 5A	82464	
AGC-6	250V 1/4" x 1-1/4" Fast Acting 6A	82465	
AGC-6-1/4	250V 1/4" x 1-1/4" Fast Acting 6-1/4A	—	
AGC-7	250V 1/4" x 1-1/4" Fast Acting 7A	—	
AGC-7.5	250V 1/4" x 1-1/4" Fast Acting 7.5A	82466	
AGC-30	250V 1/4" x 1-1/4" Fast Acting 30A	82473	



Small Dimension Fuses

Bussmann® - 1/4" X 1 1/4"

Fast-Acting Fuse

Dimensions: 1/4" x 1 1/4" (6.35 x 31.75mm)

Volts: 250Vac (or less), 125Vdc (20A- 30A)

Amps: 1/4-30A

IR: 35A (1/4-1A @250Vac), 100A (11/2-2A @ 250Vac), 200A (21/2-10A @ 250Vac), 750A (12-15A @ 250Vac), 1500A (20-30A @ 250Vac), 10kA (1/4-30A @ 125Vac), 10kA (20-30A @ 125Vdc)

Agency Information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180, 0-20A CSA Certification, Class 1422-01, File 53787, 0-20A. UL Recognized, Guide JDYX2, File E19180, 25-30A, CSA Component Acceptance, Class 1422-30, 25-30A

Typical Applications: Electronic Circuits

Construction: Ceramic tube with nickel-plated brass end caps

Features:

- Ceramic body allows for higher amp/volt rating combinations
- Inventory consolidation by replacing MDL fuses allows for reduced SKU investment and minimizing potential for misapplying fuse



MDA - Case Qty 5

Global No.	Description	Mars No.	Other
MDA8	250V 1/4" x 1-1/4" Time Delay 8A	—	326 (Littelfuse) 3AB-SB Cefco
MDA10	250V 1/4" x 1-1/4" Time Delay 10A	—	MDX (Bussmann) MSL (Bussmann)



Small Dimension Fuses

Bussmann® - 1/4" X 1 1/4"

Fast-Acting Fuse

Dimensions: 1/4" x 1 1/4" (6.4 x 31.7mm)

Volts: 250Vac (1/16-8A), 32Vac (9-30A)

Amps: 1/16-30A

IR: 35A (1/16-1A @ 250Vac), 100A (1 1/4-3A @ 250Vac), 200A (4-8A @ 250Vac), 10000A (1/16-8A @ 125Vac), 1000A (9-30A @ 32Vac)

Agency Information: CE, UL Listed, Guide JDYX, File E19180, 1/16-8A; CSA Certification Class 1422-01, 1/16-8A; UL Recognized, Guide JDYX2, File E19180, 9-30A; CSA Component Acceptance, Class 142230, 9-30A

Typical Applications: Electronic Circuits

Construction: Glass tube, nickel-plated brass end caps

Features:

- Time-delay allows close sizing on inductive circuits



MDL - Case Qty 5

Global No.	Description	Mars No.	Other
MDL-1/2	250V 1/4" x 1-1/4" Time Delay 1A	81631	313 (Littelfuse) 3AG-SB GDL (Ferraz/ Shawmut)
MDL-3/4	250V 1/4" x 1-1/4" Time Delay 2A	—	
MDL-2	250V 1/4" x 1-1/4" Time Delay 2A	82507	
MDL-3	250V 1/4" x 1-1/4" Time Delay 3A	82510	
MDL-4	250V 1/4" x 1-1/4" Time Delay 4A	82512	
MDL-5	250V 1/4" x 1-1/4" Time Delay 5A	82513	
MDL-8	250V 1/4" x 1-1/4" Time Delay 8A	82517	
MDL-10	250V 1/4" x 1-1/4" Time Delay 10A	82518	
MDL15	250V 1/4" x 1-1/4" Time Delay 15A	82519	
MDL-20	250V 1/4" x 1-1/4" Time Delay 20A	81633	



Small Dimension Fuses

Bussmann® - 5mm X 20mm

Fast-Acting Fuse

Dimensions: 5mm x 20mm (0.197" x 0.788")

Volts: 250Vac (63mA-2.5A), 125Vac (3.15-15A)

Amps: 63mA-15A

IR: 35A (63mA- 1A @ 250Vac,p.f. = 0.7-0.8), 10kA (63mA-6A @ 125Vac,p.f. = 0.7-0.8), 100A (1.25-2.5A @ 250Vac, p.f. = 0.7-0.8), 200A (7-8A @ 125Vac,p.f. = 1.0), 150A (10-15A @ 125Vac,p.f. = 1.0)

Agency Information: CE, Std.248-14 UL Listed Guide JDYX, File E19180, 0-6A, UL Recognized, Guide JDYX2, File E19180, 7-15A, CSA Certified, Class 1422-01, File 53787, 0-6

Typical Applications: Electronic Circuits

Construction: Glass tube, nickel-plated brass end caps

Features:

- Fast-acting for maximum protection



GMA - Case Qty 5

Global No.	Description	Mars No.	Other
GMA-500MA	250V 5mm x 20mm Fast Acting 500mA	—	235 (Littelfuse) GGM (Ferraz/ Shawmut)
GMA-1	250V 5mm x 20mm Fast Acting 1A	81181	
GMA-1-1/2	250V 5mm x 20mm Fast Acting 1.5A	—	
GMA-1-6/10	250V 5mm x 20mm Fast Acting 1-6/10A	—	
GMA-2-1/2	250V 5mm x 20mm Fast Acting 2.5A	—	
GMA-5	250V 5mm x 20mm Fast Acting 5A	81185	



Small Dimension Fuses

Bussmann® - 5mm X 20mm

Fast-Acting Fuse

Dimensions: 5mm x 20mm (0.197" x 0.788")

Volts: 250Vac (63mA-3.15A), 125Vac (3.5-10A)

Amps: 63mA-10A

IR: 35A (63mA- 1A @ 250Vac, p.f. = 0.7-0.8), 10kA (63mA-6A @ 125Vac, p.f.= 0.7-0.8), 100A (1.25-3.15A @ 250Vac, p.f. = 0.7-0.8), 200A (6.3-10A @125Vac, p.f.= 1.0)

Agency Information: CE, Std. 248-14, UL Listed Guide JDYX,File E19180, 0-6.3A, UL Recognized, Guide JDYX2, File E19180, 7-8A, CSA Certified, Class 1422-01, File 53787, 0-6.3A

Typical Applications: Electronic Circuits

Construction: Glass tube, nickel-plated brass end caps

Features:

- Conforming to UL standards



GMC - Case Qty 5

Global No.	Description	Mars No.	Other
GMC-500MA	250V 5mm x 20mm Medium Time Delay 500mA	—	GSC (Ferraz/ Shawmut)
GMC-1	250V 5mm x 20mm Medium Time Delay 1A	82883	
GMC-1-1/2	250V 5mm x 20mm Medium Time Delay 1.5A	—	



Low Voltage Fuses

Bussmann® - Automotive Blade

Fast-Acting Blade Fuse

Volts: 32Vdc

Amps: 1-40A

IR: 1000A

Agency Information: UL Recognized, (3-40A) (Guide JFHR2, File E56412), SAE Standard J1284

Typical Applications: Automotive

Construction: Colored plastic housing with zinc fuse element

Features:

- Color coded plastic housing for easy identification of fuse ratings



ATC - Case Qty 5

Global No.	Description	Mars No.	Other
ATC-3	Fast Acting Automotive Blade Violet 3A	81631	ATO (Littelfuse)
ATC-4	Fast Acting Automotive Blade Pink 4A	—	
ATC-5	Fast Acting Automotive Blade Tan 5A	82507	
ATC-7-1/2	Fast Acting Automotive Blade Brown 7.5A	82510	
ATC-10	Fast Acting Automotive Blade Red 10A	82512	
ATC-15	Fast Acting Automotive Blade Blue 15A	82513	
ATC-20	Fast Acting Automotive Blade Yellow 20A	82517	
ATC-25	Fast Acting Automotive Blade Clear 25A	82518	
ATC-30	Fast Acting Automotive Blade Green 30A	82519	

Bussmann® - Automotive Blade

Fast-Acting Mini Blade Fuse

Volts: 32Vdc

Amps: 2-30A

IR: 1000A

Typical Applications: Automotive

Construction: Colored plastic housing with zinc fuse element

Features:

- Color coded plastic housing for easy identification of fuse ratings



ATM - Case Qty 5

Global No.	Description	Mars No.	Other
ATM-3	Fast Acting Mini Automotive Blade Violet 3A	—	—
ATM-10	Fast Acting Mini Automotive Blade Red 10A	81354	



Low Voltage Fuses

Bussmann® - Fast-Acting Midget

Fast-Acting Supplementary Fuse

Dimensions: 13/32" x 1 1/2 " (10.3 x 38.1mm)

Volts: 250Vac (or less)

Amps: 1-1/2-10A

IR: 10kA @ 125Vac (2/10-30A), 35A (2/10-1A @ 250Vac) 100A (11/2-3A @ 250Vac), 200A (4-10A @ 250Vac) 750A (12A- 15A @ 250Vac), 200A (20-30A @ 250Vac)

Agency Information: CE, Std. 248-14, UL 0-15/250V, Guide JDYX, File E19180
CSA Certified, 0-15/250V, Class 1422-01, File 53787

Typical Applications: General Purpose Circuits, Lighting Circuit Protection, Meter Circuits

Features:

- Low cost supplemental protection of 125V and 250V non-inductive circuits
- Upgrade with LP-CC product to reduce SKU investment and minimize potential arc-flash hazards (and minimize potential for misapplying fuse).



BAF - Case Qty 10

Global No.	Description	Mars No.	Other
BAF-1-1/2	250V 13/32" x 1-1/2" Fast Acting 1.5A	—	BLF (Littelfuse) MOL (Edison) OTM (Ferraz/ Shawmut)
BAF-10	250V 13/32" x 1-1/2" Fast Acting 10A	—	



Low Voltage Fuses

Bussmann® - Fast-Acting Midget

Fast-Acting Fuse

Dimensions: 13/32" x 13/8" (10.3 x 34.9mm)

Volts: 600Vac (1/10-5A), 250Vac (6 - 10A), 48Vac (12-30A)

Amps: 1-20A

IR: 10kA RMS Sym.

Agency Information: CE, Std. 248-14, UL Listed, 0-5A/600V, Guide JDYX, File E19180, CSA Certified, 0-5A/600V, Class 1422-01, File 53787

Typical Applications: Control Circuits, Lighting Ballasts, Meter Circuits

Construction: Fiber cartridge

Features:

- Low cost supplemental protection of non-inductive circuits
- Reduced interchangeability with other supplemental fuses minimizes misapplication



BBS - Case Qty 5

Global No.	Description	Mars No.	Other
BBS-1	600V 13/32" x 1-3/8" Fast Acting 1A	82608	BLS (Littelfuse) CBS (Cefco) EBS (Edison)
BBS-2	600V 13/32" x 1-3/8" Fast Acting 2A	82609	
BBS-3	600V 13/32" x 1-3/8" Fast Acting 3A	82610	
BBS-4	600V 13/32" x 1-3/8" Fast Acting 4A	82611	
BBS-5	600V 13/32" x 1-3/8" Fast Acting 5A	82612	
BBS-10	600V 13/32" x 1-3/8" Fast Acting 10A	—	
BBS-15	600V 13/32" x 1-3/8" Fast Acting 15A	—	
BBS-20	600V 13/32" x 1-3/8" Fast Acting 20A	—	



Low Voltage Fuses

Bussmann - Fast-Acting Midget

Fast-Acting Supplementary Fuse

Dimensions: 13/32" x 1 1/2" (10.3 x 38.1mm)

Volts: 600Vac (or less)

Amps: 1/10-30A

IR: 100kA RMS Sym. (UL)

Agency Information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180

Typical Applications: Control Circuits, Lighting Circuit Protection, Meter Circuits

Construction: Fiber cartridge

Features:

- Low cost supplemental protection of 600V or less non-inductive circuits
- Upgrade with LP-CC product to reduce SKU investment and minimize potential arc-flash hazards



KTK - Case Qty 10

Global No.	Description	Mars No.	Other
KTK-2	600V 13/32" x 1-1/2" Fast Acting 2A	82911	ATM (Gould) CTK (Cefco) KLK(Littelfuse) MCL (Edison)
KTK-3	600V 13/32" x 1-1/2" Fast Acting 3A	82916	
KTK-5	600V 13/32" x 1-1/2" Fast Acting 5A	82913	
KTK-10	600V 13/32" x 1-1/2" Fast Acting 10A	82917	
KTK-15	600V 13/32" x 1-1/2" Fast Acting 15A	82919	
KTK-20	600V 13/32" x 1-1/2" Fast Acting 20A	82920	
KTK-30	600V 13/32" x 1-1/2" Fast Acting 30A	82922	
KTK-35	600V 13/32" x 1-1/2" Fast Acting 35A	—	



Low Voltage Fuses

Bussmann® - *General Purpose*

General Purpose, Non-Current-Limiting Fuse

Volts: 250Vac, 125Vdc

Amps: 1/8-600A

IR: 50kA RMS Sym. (NON & NOS Class K5 0-60A), 10kA RMS Sym. (NON & NO-SC Class H65-600A), 50kA @ 125Vdc (NON Class K5 0-60A), 10kA @ 125Vdc (NON Class H 65-100A)

Agency Information: CE, UL Listed – 250V: Class K5 (0-60A), Std. 248-9, Class H (65-600A), Std. 248-6, (125Vdc: NON 0-100), 600V: Class K5 (0-60A), Std. 248-9, Class H (70-600A), Std. 248-6, Guide JDDZ, File E4273, CSA Certified – 250V: (0-12, 65-600), 600V: (0-600), Class 1421-01, File 53787

Typical Applications: Light Duty Circuit Locations

Features:

- Original fuse providing circuit protection



NON - Case Qty 10

Global No.	Description	Mars No.	Other
NON-1	250V One Time General Purpose 1A	—	
NON-5	250V One Time General Purpose 5A	—	
NON-10	250V One Time General Purpose 10A	82210	
NON-15	250V One Time General Purpose 15A	82212	
NON-20	250V One Time General Purpose 20A	82213	10KOTN (Cefco)
NON-25	250V One Time General Purpose 25A	82214	50KOTN (1-60) (Cefco)
NON-30	250V One Time General Purpose 30A	82215	EON (Brush)
NON-35	250V One Time General Purpose 35A	82216	KON (Edison)
NON-40	250V One Time General Purpose 40A	82217	NLN (Littelfuse)
NON-45	250V One Time General Purpose 45A	82218	
NON-50	250V One Time General Purpose 50A	82219	
NON-60	250V One Time General Purpose 60A	82220	OT (Ferraz/Shawmut)
NON-70	250V One Time General Purpose 70A	82221	
NON-80	250V One Time General Purpose 80A	—	
NON-100	250V One Time General Purpose 100A	82224	



Low Voltage Fuses

Bussmann® - *General Purpose*

General Purpose, Non-Current-Limiting Fuse

Volts: 600Vac

Amps: 15-250A

IR: 50kA RMS Sym. (NON & NOS Class K5 0-60A), 10kA RMS Sym. (NON & NO-SC Class H65-600A), 50kA @ 125Vdc (NON Class K5 0-60A), 10kA @ 125Vdc (NON Class H 65-100A)

Agency Information: CE, UL Listed – 250V: Class K5 (0-60A), Std. 248-9, Class H (65-600A), Std. 248-6, (125Vdc: NON 0-100), 600V: Class K5 (0-60A), Std. 248-9, Class H (70-600A), Std. 248-6, Guide JDDZ, File E4273, CSA Certified – 250V: (0-12, 65-600)†, 600V: (0-600), Class 1421-01, File 53787

Typical Applications: Light Duty Circuit Locations

Features:

- Original fuse providing circuit protection



NOS - Case Qty 10

Global No.	Description	Mars No.	Other
NOS-15	600V One Time General Purpose 15A	82251	10KOTS (Cefco)
NOS-20	600V One Time General Purpose 20A	82252	50KOTS (15-60)
NOS-25	600V One Time General Purpose 25A	82253	(Cefco)
NOS-30	600V One Time General Purpose 30A	82254	EOS (Brush)
NOS-35	600V One Time General Purpose 35A	82255	KOS (Edison)
NOS-40	600V One Time General Purpose 40A	82256	NLS (Littelfuse)
NOS-60	600V One Time General Purpose 60A	82259	OTS (Ferraz/
NOS-250	600V One Time General Purpose 600A	—	Shawmut)



Low Voltage Fuses

Bussmann® - *Inline Non-Rejection*

Fast-Acting, Non-Rejection, Inline Fuse

Volts: 300Vac (or less)

Amps: 3/16-15A

IR: 10kA

Agency Information: CE, Std. 248-14, UL Listed, 0-15A/300Vac (Guide JDYX, File E19180), CSA Certified, 0-10A/300V (Class 1422-01, File 53787)

Typical Applications: In-Line Lighting Ballast Protection

Construction: Glass Tube

Features:

- In-line, fast-acting circuit protection



GLR - Case Qty 5

Global No.	Description	Mars No.	Other
GLR-R-1/2	300V Fast Acting, Non-Rejecting 1/2A	—	LGR (Littelfuse) SLR (Ferraz/ Shawmut)
GLR-R-1	300V Fast Acting, Non-Rejecting 1A	81176	
GLR-R-1-6/10	300V Fast Acting, Non-Rejecting 1-6/10A	82887	
GLR-R-1-1/2	300V Fast Acting, Non-Rejecting 1.5A	82886	
GLR-R-2	300V Fast Acting, Non-Rejecting 2A	—	
GLR-R-3	300V Fast Acting, Non-Rejecting 3A	81177	
GLR-R-4	300V Fast Acting, Non-Rejecting 4A	—	
GLR-R-5	300V Fast Acting, Non-Rejecting 5A	81178	
GLR-R-6	300V Fast Acting, Non-Rejecting 6A	—	
GLR-R-7	300V Fast Acting, Non-Rejecting 7A	—	
GLR-R-8	300V Fast Acting, Non-Rejecting 8A	—	
GLR-R-9	300V Fast Acting, Non-Rejecting 9A	—	
GLR-R-10	300V Fast Acting, Non-Rejecting 10A	82891	
GLR-R-12	300V Fast Acting, Non-Rejecting 12A	—	
GLR-R-15	300V Fast Acting, Non-Rejecting 15A	82890	



Low Voltage Fuses

Bussmann® - *Inline Non-Rejection*

Fast-Acting, Non-Rejection, Inline Fuse

Volts: 300Vac (or less)

Amps: 3/10-10A

IR: 10kA

Agency Information: CE, Std. 248-14 0-10A, UL Listed (Guide JDYX, File E19180), CSA Certified, (Class 1422-01, File 53787)

Typical Applications: In-Line Lighting Ballast Protection

Construction: Glass Tube

Features:

- In-line, fast-acting circuit protection



GMF - Case Qty 5

Global No.	Description	Mars No.	Other
GMF-R-2	300V Fast Acting, Non-Rejecting 2A	—	LMF (Littelfuse)
GMF-R-3-2/10	300V Fast Acting, Non-Rejecting 3-2/10A	82888	SMF (Ferraz/ Shawmut)

Bussmann® - *Inline Rejection*

Time Delay, Size-Rejecting, Inline Fuse

Volts: 300Vac (or less)

Amps: 1/2-6 1/4A

IR: 10kA

Agency Information: CE, Std. 248-14, UL Listed (Guide JDYX, File E19180), CSA Certified, (Class 1422-01, File 53787)

Typical Applications: In-Line Lighting Ballast Protection

Features:

- In-line, fast-acting circuit protection



GMQ - Case Qty 5

Global No.	Description	Mars No.	Other
GMQ-R-1-6/10	300V Time Delay, Size Rejecting 1-6/10A	82887	—
GMQ-R-1-1/2	300V Time Delay, Size Rejecting 1.5A	82886	
GMQ-R-3-2/10	300V Time Delay, Size Rejecting 3-2/10A	81177	
GMQ-R-4	300V Time Delay, Size Rejecting 4A	—	
GMQ-R-5	300V Time Delay, Size Rejecting 5A	81178	



Low Voltage Fuses

Bussmann® - Plug Fuses

Adapters for Using Type S Rejection Fuses in Edison Base Fuse Sockets

Typical Applications: Plug fuse installations where it is desirable to restrict fuse amp ratings

Features:

- Fustat adapters screw into the “Edison” thread fuse sockets of standard fuse boxes making it easy to retrofit existing fuse installations
- Available in various amp ratings to cover a wide range of rating requirements



Fuse Adapters - Case Qty 10

Global No.	Description	Mars No.	Other
SA-1-1/4	Adapter for S Series 1-1/4A	—	ESA (Edison) SAO (Littelfuse)
SA-1-6/10	Adapter for S Series 1-6/10A	—	
SA-6-1/4	Adapter for S Series 6-1/4A	82379	
SA-8	Adapter for S Series 8A	—	
SA-10	Adapter for S Series 10A	—	
SA-15	Adapter for S Series 15A	82382	
SA-20	Adapter for S Series 20A	82383	
SA-30	Adapter for S Series 30A	82384	



Bussmann® - Plug Fuses

Dual-Element, Time-Delay Plug Fuse

Dimensions: S - Rejection base, T - Edison base

Volts: 125Vac

Amps: S Series: 1-1/4-30A, T Series: 3/10-30A

IR: 10kA RMS Sym.

Agency Information: CE, Std. 248-11, Type S and T: UL Listed (0-61/4) Guide JFHR, File E56412 (7-30A) Guide JEFV, File E12112; CSA Certified, Class 1423-01, File 53787

Typical Applications:

- S Series - Residential Load Centers
- T Series - Box Cover Units for small motor overload protection
- Applications benefiting from fuse rejection (S Series only)

Construction: S - Plastic base with rejection threads, T - Brass threads with plastic body

Features:

- Time-delay, dual-element T Series Edison base plug fuses provide small motor overload protection when used with box cover units
- Time-delay, dual-element S Series plug fuses provide a rejection feature (when used alone or with Fustat adapters to retrofit Edison base holders) to prevent over fusing of branch circuits



S & T Series - Case Qty 4

S Series			
Global No.	Description	Mars No.	Other
S-1-1/4	125V Time Delay, Rejection Base 1-1/4A	82307	3780 (.25-30) (Bussmann) SOO (Littelfuse)
S-1-6/10	125V Time Delay, Rejection Base 1-6/10A	82308	
S-2	125V Time Delay, Rejection Base 2A	82311	
S-2-8/10	125V Time Delay, Rejection Base 2-8/10A	—	
S-3	125V Time Delay, Rejection Base 3A	82315	
S-3-2/10	125V Time Delay, Rejection Base 3-2/10A	82316	
S-4	125V Time Delay, Rejection Base 4A	82318	
S-5	125V Time Delay, Rejection Base 5A	82320	
S-6	125V Time Delay, Rejection Base 6A	—	
S-6-1/4	125V Time Delay, Rejection Base 6-1/4A	82323	
S-7	125V Time Delay, Rejection Base 7A	—	
S-8	125V Time Delay, Rejection Base 8A	82325	
S-10	125V Time Delay, Rejection Base 10A	82327	
S-12	125V Time Delay, Rejection Base 12A	82328	
S-14	125V Time Delay, Rejection Base 14A	—	
S-15	125V Time Delay, Rejection Base 15A	82137	
S-20	125V Time Delay, Rejection Base 20A	82138	
S-25	125V Time Delay, Rejection Base 25A	82332	
S-30	125V Time Delay, Rejection Base 30A	82333	



Low Voltage Fuses

Bussmann® - Plug Fuses Cont.

S & T Series Cont. - Case Qty 4

<i>T Series</i>			
Global No.	Description	Mars No.	Other
T-1-1/4	125V Time Delay, Edison Base 1-1/4A	82334	3780 (.25-30) (Bussmann) SOO (Littelfuse)
T-1-6/10	125V Time Delay, Edison Base 1-6/10A	—	
T-2-8/10	125V Time Delay, Edison Base 2-8/10A	—	
T-3-2/10	125V Time Delay, Edison Base 3-2/10A	82338	
T-4	125V Time Delay, Edison Base 4A	82339	
T-5	125V Time Delay, Edison Base 5A	82340	
T-6	125V Time Delay, Edison Base 6A	—	
T-6-1/4	125V Time Delay, Edison Base 6-1/4A	82341	
T-8	125V Time Delay, Edison Base 8A	82342	
T-10	125V Time Delay, Edison Base 10A	82343	
T-12	125V Time Delay, Edison Base 12A	—	
T-15	125V Time Delay, Edison Base 15A	82346	
T-20	125V Time Delay, Edison Base 20A	82347	
T-25	125V Time Delay, Edison Base 25A	82348	
T-30	125V Time Delay, Edison Base 30A	82349	



Low Voltage Fuses

Bussmann® - Plug Fuses

Time-Delay, Loaded Link Plug Fuse

Dimensions: SL - Rejection base, TL - Edison base

Volts: 125Vac

Amps: 15-30A

IR: 10kA RMS Sym.

Agency Information: CE, Std. 248-11, UL Listed, Guide JEFV, File E12112

Typical Applications:

- Small motor and inductive load circuits with high in-rush current levels
- Used with box cover units to provide equipment protection
- Applications benefiting from fuse rejection (SL Series only)

Construction: SL - Plastic base with rejection threads, TL - Brass threads with plastic body

Features:

- Time-delay loaded link TL Series Edison base plug fuses pass motor overload starting currents without opening and allow closer sizing to motor load for added protection
- Time-delay loaded link SL Series fuses provide a rejection feature (when used alone or with Fustat adapters to retrofit Edison base holders) to help prevent overfusing



SL & TL Series - Case Qty 4

S Series			
Global No.	Description	Mars No.	Other
SL-15	125V Time Delay, Rejection Base 15A	82330	3770 (15-30) (Bussmann) GLS (15-30) SLO (15-30) (Littelfuse)
SL-20	125V Time Delay, Rejection Base 20A	82331	
S Series			
Global No.	Description	Mars No.	Other
TL-15	125V Time Delay, Rejection Base 15A	82350	3740 (15-30) (Bussmann) GTL (15-30) (Ferraz/Shawmut) TLO (15-30) (Littelfuse)
TL-2	125V Time Delay, Rejection Base 20A	82351	
TL25	125V Time Delay, Rejection Base 25A	82352	
TL-30	125V Time Delay, Rejection Base 30A	82353	



Low Voltage Fuses

Bussmann® - SC Series

Fast-Acting (1/2-6A), Time-Delay (7-60A) Fuse

Volts: 600Vac (1/2-20A), 480Vac (25-60A), 170Vdc (1/2-20A), 300Vdc (30 & 60A only)

Amps: 1/2-60A

IR: 100kA RMS Sym., 10kA DC

Agency Information: CE, Std. 248-5, Class G, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787

Typical Applications:

- Fusible Branch Panel boards
- HVAC Branch Circuit Protection



SC Series - Case Qty 10

Global No.	Description	Mars No.	Other
SC-1	600V Fast Acting 1A	82271	AG (Ferraz/ Shawmut) SEC (Edison) SLC (Littelfuse)
SC-2	600V Fast Acting 2A	82290	
SC-3	600V Fast Acting 3A	82272	
SC-5	600V Fast Acting 5A	82273	
SC-8	600V Fast Acting 8A	82275	
SC-10	600V Fast Acting 10A	82276	
SC-15	600V Fast Acting 15A	82278	
SC-20	600V Fast Acting 20A	82279	
SC-25	600V Fast Acting 25A	82280	
SC-30	600V Fast Acting 30A	82281	
SC-35	600V Fast Acting 35A	82282	
SC-40	600V Fast Acting 40A	82283	
SC-50	600V Fast Acting 50A	82285	
SC-60	600V Fast Acting 60A	82286	



Low Voltage Fuses

Bussmann® - Time-Delay Midget

Time-Delay Supplementary Fuse

Dimensions: 13/32" x 1 1/2" (10.3 x 38.1mm)

Volts: 250Vac (or less)

Amps: 1/10-30A

IR: 35A (1/10-1A @ 250Vac), 100A (11/8-31/2A @ 250Vac) 200A (4-10A @ 250Vac), 10kA (1/10-10A @ 125Vac), 10kA (12-30A @250Vac)

Agency Information: CE, Std. 248-14, UL Listed, 0-30/250Vac; File E19180, Guide JDYX, CSA Certified, 1-30/250Vac; Class 1422-01, File 53787

Typical Applications:

- General Purpose Circuits
- Lighting Circuit Protection
- Meter Circuits

Features:

- Low cost supplemental protection of 125V and 250V inductive circuits



FNM - Case Qty 10

Global No.	Description	Mars No.	Other
FNM-8/10	250V 13/32" x 1-1/2" Time Delay 8/10A	82953	CNM (Cefco) FLM (Littelfuse) FNW (Bussmann) MEN (Edison) TRM (Ferraz/ Shawmut)
FNM-1	250V 13/32" x 1-1/2" Time Delay 1A	82958	
FNM-2	250V 13/32" x 1-1/2" Time Delay 2A	82959	
FNM-2-1/2	250V 13/32" x 1-1/2" Time Delay 2.5A	—	
FNM-3	250V 13/32" x 1-1/2" Time Delay 3A	82960	
FNM-5	250V 13/32" x 1-1/2" Time Delay 5A	82965	
FNM-6-1/4	250V 13/32" x 1-1/2" Time Delay 6-1/4A	—	
FNM-7	250V 13/32" x 1-1/2" Time Delay 7A	—	
FNM-10	250V 13/32" x 1-1/2" Time Delay 10A	82969	
FNM-15	250V 13/32" x 1-1/2" Time Delay 15A	82970	
FNM-20	250V 13/32" x 1-1/2" Time Delay 20A	82972	



Low Voltage Fuses

Bussmann® - Time-Delay Midget

Time-Delay Supplementary Fuse

Dimensions: 13/32" x 11/2" (10.3 x 38.1mm)

Volts: 500Vac (or less)

Amps: 1/10-30A

IR: 10kA RMS Sym.

Agency Information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180
CSA Certified, Class 1422-01, File 53787

Typical Applications:

- Control Transformer 480V Primary Protection
- Lighting Circuit Protection
- Meter Circuits

Features:

- Low cost supplemental protection of transformers and relays at 500V or less



FNQ - Case Qty 10

Global No.	Description	Mars No.	Other
FNQ-3/10	500V 13/32" x 1-1/2" Time Delay 3/10A	—	
FNQ-1	500V 13/32" x 1-1/2" Time Delay 1A	82936	
FNQ-1-1/4	500V 13/32" x 1-1/2" Time Delay 1-1/4A	—	ATQ (Ferraz/ Shawmut)
FNQ-3	500V 13/32" x 1-1/2" Time Delay 3A	82942	
FNQ-5	500V 13/32" x 1-1/2" Time Delay 5A	82944	CNQ (Cefco)
FNQ-10	500V 13/32" x 1-1/2" Time Delay 10A	82947	FLQ (Littelfuse)
FNQ-15	500V 13/32" x 1-1/2" Time Delay 15A	82952	
FNQ-20	500V 13/32" x 1-1/2" Time Delay 20A	82948	MEQ (Edison)
FNQ-25	500V 13/32" x 1-1/2" Time Delay 25A	82949	
FNQ-30	500V 13/32" x 1-1/2" Time Delay 30A	82951	



Heating Products

Heat Restraining Kits Heat Sequencers

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Heat Restraining Kits

NAPCO - Heat Restraining Kits



Heating Element Coil Kits and Accessories	
Global No.	Description
5001	2500W @ 240V, 1800W @ 208V, 18"
5002	3000W @ 240V, 2250W @ 208V, 18½"
5003	4000W @ 240V, 3000W @ 208V, 26½"
5004-1/2	5000W 480V 1/2" HEATING EL
5004-5/8	5000W 48V HTG ELEMENT 5/8 DIAM
5004	5000W @ 480V, 23"
5005	5000W @ 240V, 3750W @ 208V, 28"
5005NF	5000W @ 240V, w/o fuse
5005-1/2	5KW 240 1/2" DIAMETER HEATING
5005-5/8	5KW HTG COIL 240V 5/8" DIA
5006	6000W @240V, 4500W @ 208V, 26"
5007	Fuse Link, 300° F
5007-10	FUSE LINK, 300 F, 10 PACK
5007B	FUSE LINK 350DEG EA.
5007B-10	Fuse Link, 350° F, 10 Pack
5008	Male Ceramic Insulator, 250V
5008-10	Male Ceramic Insulator, 250V, 10 Pack
5009	Female Ceramic Insulator, 250V
5009-10	Female Ceramic Insulator, 250V, 10 Pack
5010	Ribbed Ceramic Insulator, 250V
5010B	6KW 277V
5010-10	Ribbed Ceramic Insulator, 250V, 10 Pack
5011	Ceramic Fuse Link, 300° F
5011-3	Ceramic Fuse Link, 300° F, 3 Pack
5011R	NTCK300 CERMIC FSE LNK 300F 1S
5011R-3	Ceramic Fuse Link, 300° F, 3 Pack, Round
5012	Ceramic Fuse Link
5015	2.5 KW 460V RESTRING KIT
5016	5 KW 277V HEATER ELEMENT
5017	2500W 277V RESTRING KIT
5018	2.5KW 480V



Heat Sequencers

AMERICAN ZETTLER, INC. - *Electric Heat Sequencers- ZC24A34 Series*

The following models will replace sequencers in almost any electric heating system. Sequencers may be used on both separate blower and element and combination blower and element systems. Select the sequencers based on the number of circuits to be switched. When more than one sequencer is required, just wire the sequencers in series with the last switch of each sequencer energizing the control circuit of the next sequencer. If the sequencers control the fan/blower circuit, the first switch, M-1-M2, of each sequencer must always control the fan. This assures that the fan will remain on until all elements are de-energized.

Features and Benefits:

- Solid state PTC heaters
- Replaces most Klixon and TOD brands
- Quick-connect terminals
- Shock and vibration resistant
- Mounts in any position
- Contact ratings— to 25A at 120 or 240V, and 12.5A at 480V
- Full-load rating auxiliary contacts
- Standard operating ambience between -50° F (-45.5° C) and 165° F (73.8° C)
- UL File E237660, UL873; CSA approved





Standard Timings:

Global No.	Timings	Switches	Action	Timings—ON						Timings—OFF						Case Qty
				M1-M2	M3-M4	M5-M6	M7-M8	M9-M10	M1-M2	M3-M4	M5-M6	M7-M8	M9-M10			
24ZC-1	1	1	SPST	1-20	—	—	—	—	—	40-110	—	—	—	—	—	160
24ZC-2	1	1	SPST	—	—	30-90	—	—	—	—	—	1-30	—	—	160	
24ZC-3	1	2	DPST	1-20	§ 1-20	—	—	—	—	40-110	§ 40-110	—	—	—	160	
24ZC-4	1	2	DPST	—	—	30-90	§ 30-90	—	—	—	—	1-30	§ 1-30	—	160	
24ZC-5	2	3	1 DPST/ 1 SPST	1-110	§ 1-110	1-110	—	—	—	1-110	§ 1-110	1-110	—	—	80	
24ZC-6	2	4	2 DPST	1-110	§ 1-110	1-110	§ 1-110	—	—	1-110	§ 1-110	1-110	§ 1-110	—	80	
24ZC-14	4	5	1 SPST/ 2 DPST	1-160	§ 1-160	1-160	1-160	1-160	1-160	1-160	§ 1-160	1-160	1-160	1-160	—	

Table Notes: (1) M1-M2 and M3-M4 are always first switches to turn ON and to turn OFF. All other switches are random ON and random OFF.

(2) 24A34-14 switch contacts designated F1-F2 instead of M1-M2.

§ These contacts switch simultaneously

ON TIME- Elapsed time to make contacts after heater is energized (min to max)

OFF TIME- Elapsed time to make contacts after heater is de-energized (min to max)

OFF Timings are determined after PTC heater has been electrified for a total of 5 minutes.

Standard Timings determined at 25° C. Timings at temperatures above or below 25° will vary.



Heat Sequencers

AMERICAN ZETTLER, INC. - *Electric Heat Sequencers Cont.*

Electrical Ratings (24ZC-1—24ZC-14):

Single Load Contact Ratings (All Models)

VAC	Resistive (Non-Inductive)				Motor Ratings (Inductive)		Pilot Duty	UL Endurance Cycles
	NO Contacts (terminals 1-3)		NC Contacts (terminals 1-2)		Full Load	Locked Rotor		
	Watts	Amps	Watts	Amps				
120	3000	25.0	1200	10.0	10.0A	60.0A	125VA	100K
240	6000	25.0	1200	5.0	5.0A	30.0A	125VA	
480	6000	12.5	—	—	3.0A	18.0A	480VA	

Combined Load Contact Ratings (all Models):

30A @ 240 VAC Example: 23A non-inductive + 7 FLA/42 LRA inductive

Heater Pole:

24 VAC .018 (Anticipator)
 0.75 A Max Inrush
 0.16 to 0.20 Amps Steady Stat
 Ambient Rating: -50° to 165°F

AMERICAN ZETTLER, INC. - *Air Handler Applications*

Heat Pump Air Handler Applications— 24ZC-15

The 24ZC-15 utilizes a single bi-metal disc in a single pole double throw configuration. The SPDT switch action allows for a single set of timings. Mainly used in heat pump air handlers by providing a delay to the blower motor in cooling mode.

Standard Timings:

Model	Timing	Switches	Heat	Cool
24ZC-15	1	1	1-25	65-115

Electrical Ratings (24ZC-1—24ZC-14):

NO Contacts— Terminals 1-3

VAC	Resistive (Non-Inductive)		Motor Ratings (Inductive)		Pilot Duty	UL Endurance Cycles
	Watts	Amps	Full Load	Locked Rotor		
120	3000	25.0	10.0A	60.0A	125VA	100K
240	6000	25.0	5.0A	30.0A	125VA	
480	6000	12.5	3.0A	18.0A	480VA	



Heat Sequencer Cross Reference

Global	Zettler	Supco	Gem	Mars	Watsco	Klixon	White Rogers	Robertshaw	OEM
24ZC-1	ZC24A34-1	Q101	GS101	33241 33841	TDR10	6000AONI-98	24A34-1 24A34-7 24A34-13	611-241	Goodman® B1290906 Lennox® 12F20 & 58C9701 York® 525-37322-000
24ZC-2	ZC24A34-2	Q102	GS102	33242 33842	TDR15	6000AONI-97	24A34-2	611-242	Carrier® 40CF680020
24ZC-3	ZC24A34-3	Q103	GS103	33244 33844	TDR20	6000AONI-87 6000EO-102	24A34-3	611-244	ICP® / Carrier® HN67QC005 ICP® / Carrier® HQ1056789 Goodman® BT1256504
24ZC-4	ZC24A34-4	Q104	GS104	33245 33845	TDR25	6000E049	24A34-4	611-245	York® 525-37325-000 ICP® / Carrier® HN67QC006
24ZC-5	ZC24A34-5	Q105	GS105	33232 33832	TDR30	51172-32	24A34-5 24A34-54	611-232	York® 525-37327-000 Coleman® 3120A357
24ZC-6	ZC24A34-6	Q106	GS106	33233 33833	TDR35	51172-33	24A34-6	611-233	ICP® / Carrier® HN67QC008 ICP® / Carrier® P284-1313
24ZC-14	ZC24A34-14	Q107	GS107	33848	—	51172-35-1	24A34-14	611-007	York® 525-37328-000

1. All sequencers have a 24 volt heater

2. Part numbers are intended solely for identification, items offered are not represented to be manufactured by the company that built the original equipment.



HVAC Controls

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Miniature Pressure Switches

GFC, GLP, GHP, & GMR Series

Global offers a complete line of pressure controls for fixed set point, low and high pressure, manual reset, and fan cycling applications.

Specifications:

- 18" Leads
- 1/4" female flare fitting
- Direct line mount
- Contacts rated 6 amps, 24-240 VAC



GFC Series



GHP Series



GLP Series



GFC Series

Denotes R-410A Switches

Miniature Pressure Switches

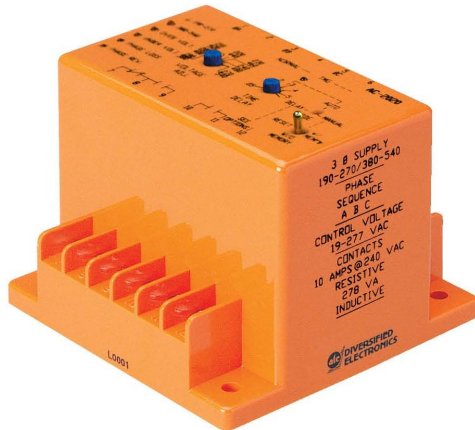
Global No.	Klixon No.	Mars No.	Cut Out	Cut In
Fan Cycling Controls				
GFC-340	20PS116KA264G126G	43303	126	264
GFC-341	20PS107KA275K210K	43306	210	275
Fixed Setting Pressure Controls				
GFC-370	20PS535MA400K300K	43340	400	300
Low Pressure - N.O.				
GLP-329	PS80-K2-F0305-020-005	43341	5	20
GLP-330	PS80-K2-F0307-025-005	43343	10	25
GLP-342	—	43353	75	100
GLP-362	PS80-K2-F0316-050-005	43346	25	50
GLP-363	PS80-K2-F0325-080-005	43346	25	80
GLP-364	PS80-K2-F0326-080-005	43350	40	80
GLP-371	—	43371	15	40
GLP-372	—	43372	22	50
GLP-373	—	43373	25	40
GLP-374	—	43374	60	95
GLP-375	—	43375	90	120
High Pressure - N.C.				
GHP-353	PS80-K1-0334-200-150	43337	200	150
GHP-354	PS80-K1-0336-250-150	43322	250	150
GHP-355	PS80-K1-0341-300-200	43325	300	200
GHP-356	PS80-K1-0348-350-250	43327	350	250
GHP-357	PS80-K1-0357-400-200	73329	400	200
GHP-358	PS80-K1-0358-400-300	43331	400	300
GHP-359	PS80-K1-0359-450-250	43334	450	250
GHP-361	—	43335	600	475
GHP-365	—	43365	590	490
GHP-366	—	43366	610	500
GHP-367	—	43367	650	500
GHP-376	—	43376	610	500
Manual Reset - N.C.				
Global No.	Klixon No.	Mars No.	Open Pressure	Features
GMR-350	29PSL004-1	43314	415	1/4" Copper Tube
GMR-352	29PSP002-1	43315	425	Panel Mount Cap Tub
GMR-365	29PSL012-24	43313	410	1/4" Flare Footing
GMR-368	—	43368	590	1/4" Female Flare



3-Phase Motor Protection



AC-2020 — 3-Phase Compressor Protector



DESCRIPTION

The AC 2020 compressor protector provides multimode time delays, reset selections and a memory capability which indicates, using LED's, the last fault condition. This offers not only protection for the compressor in adverse electrical conditions but also a method to readily determine the type of fault occurrence.

OPERATING VOLTAGE

Auto Ranges	
240 VAC	190-270 VAC, Adj., 50/60 Hz
480 VAC	380-540 VAC, Adj., 50/60 Hz

FEATURES

- Automatic Voltage Ranging
- Universal Control Voltage
- Condition/Fault Indicators
- Automatic/Manual Reset
- Last Fault Memory
- Delay-On-Make
- Delay-On-Break
- Auxiliary Contacts
- Easy Installation

PROTECTS AGAINST

- Phase Loss
- Under Voltage
- Over Voltage
- Phase Reversal
- Short Cycling

SPECIFICATIONS

MAXIMUM VOLTAGE:	550 VAC	
TRIP POINTS:		
UNDER VOLTAGE:	-10% of Setting	
OVER VOLTAGE:	+10% of Setting	
HYSTERESIS:	5% of Nominal Setting	
PHASE SEQUENCE:	ABC (Will Not Operate On CBA Sequence)	
POWER REQUIRED:	<5 VA	
CONTROL VOLTAGE:	19-288 VAC	
OUTPUT RATING:	278 VA Inductive; 10 Amps Resistive @ 240 VAC	
CONFIGURATION		
CONTROL:	SPST-N.O.	
AUXILIARY:	SPDT	
RESPONSE TIMES		
PICK-UP:	Auto Mode	Delay Mode
	.05 to 5 Min. (Adj.)	3 Min. (Fixed)
	Delay-on-Make	Delay-on-Break
DROP-OUT:	Over/Under Voltage, Phase Loss	
	2 Seconds (Approximately)	
MODE SELECTIONS:	Automatic; Manual; Delay-On-Break	
RESET SWITCH:	With Memory, Without Memory, Auto Reset, Manual Reset	
TRANSIENT WITHSTAND:	1500 V @ 8 x 20 Microseconds	
TEMPERATURES		
OPERATE:	-40°F to +165°F	
STORAGE:	-40°F to +190°F	
TERMINATIONS:	(12) #8-32 Screw Terminals	
ENCLOSURE:	Style "E", LEXAN® Surface Mounted	



3-Phase Motor Protection



AC-301 — Phase Loss Monitor



DESCRIPTION

Continuously monitors the three phase lines for adverse conditions such as Phase Loss (single phasing), Under Voltage (brown outs) and Phase Reversal (improper sequence). They will also detect a Power Failure or Thermostat Interruption. When any of the mentioned occur, the control relay drops out.

The Universal Output of the AC-301 is capable of operation on control voltages of 24, 120 or 208/240 VAC and employs a built in bypass circuit for allowing continuous current flow through the thermostat's compensating resistor while the timer output is off. The bypass circuitry is required only when the system control voltage is 24 VAC.

SPECIFICATIONS

DROP OUT RANGE:

- 1 Ø LOW: 83% of Adjustment Setting
- 3 Ø LOW: 90% of Adjustment Setting

TEMPERATURES

- OPERATE: -40°F to +150°F
- STORAGE: -40°F to +190°F

PHASE SEQUENCE:

- ABC (Will Not Operate CBA)
- 0.2 to 8 Minutes, Adjustable;
- Delay-On-Make

RELAY OUTPUT:

INDICATORS

- GREEN LED: Glows When Voltages Are Normal
- RED LED: Glows When Relay Picks Up

RESET:

POWER CONSUMPTION:

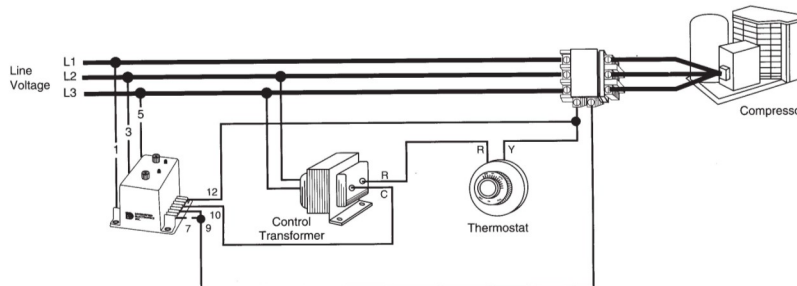
ENCLOSURE:

TERMINATIONS:

TRANSIENT PROTECTION:

MODEL NUMBER	OPERATING VOLTAGE	DROP OUT		PICK UP	DELAY ON DROP OUT
		1 Ø LOW	3 Ø LOW		
AC-301-230	190-270	158-224	171-243	1 Volt	0.5 Seconds
AC-301-380	350-440	290-365	315-396	Above	2.0 Seconds
AC-301-440	430-480	357-398	387-432	Drop Out	2.0 Seconds

All voltages referenced are 50/60 Hz





3-Phase Motor Protection



SLA Series — Phase Monitor Relay



DESCRIPTION

Any system using 3-Phase motors needs Phase Monitor protection. These monitors operate independently of motor size or power requirement of the system. When the phase sequence is correct and full line voltage is present on all three phases, the internal relay picks up. When incorrect phase sequence or phase loss occurs or the line voltages fall below the trip point, the relay drops out. Both DELTA AND WYE systems may be monitored. In WYE systems, connections to neutral are not required. The LED's glow when all conditions are normal.

SPECIFICATIONS

VOLTAGE: All Voltages Referenced are Phase-to-Phase, 50/60 Hz

DROP OUT: 1Ø Low: 83% of Setting
3Ø Low: 90% of Setting

RELAY SOCKET NEEDED:

RB-08 Recommended for Style A Enclosure. See page 3 for details. For Fig. 2, use part number RB-11 Relay Socket (not shown)



LISTED
FILE NUMBERS
UL: E55826 CSA: LR40123

MODEL NO.	OPERATING VOLTAGE	DROP OUT		PIN CONFIGURATION	AGENCY APPROVAL	LED	RESET	ENCLOSURE STYLE
		1Ø LOW	3Ø LOW					
SLA-120-ASA	95-130 Adj	79-108	85-117	Figure 1	● & CSA	Yes	Auto	A
SLA-230-ASA	190-270 Adj	158-224	171-243	Figure 1	● & CSA	Yes	Auto	A
SLA-380-ASA	350-440 Adj.	290-365	315-396	Figure 1	---	Yes	Auto	A
SLA-440-ASA	430-480 Adj	378-461	410-500	Figure 1	---	Yes	Auto	A
SUA-120-ALA	95-130 Adj	79-108	85-117	Figure 1	● & CSA	Yes	Auto	A
SUA-230-ALA	190-270 Adj	158-224	171-243	Figure 1	● & CSA	Yes	Auto	A
SUA-380-ASA	350-440 Adj	290-365	315-396	Figure 1	● & CSA	Yes	Auto	A
SUA-440-ASA	430-480 Adj	378-461	410-500	Figure 1	● & CSA	Yes	Auto	A
* SUA-120-ALAU	95-130 Adj	79-108	85-117	Figure 1	▲ & CSA	Yes	Auto	A
* SUA-230-ALAU	190-270 Adj	158-224	171-243	Figure 1	▲ & CSA	Yes	Auto	A
SLA-120-ALA	95-130 Adj	79-108	85-117	Figure 2	---	No	Auto	A
SLA-230-ALA	190-270 Adj	158-224	171-243	Figure 2	●	Yes	Auto	A
SLA-120-ALE	95-130 Adj	79-108	85-117	Figure 3	▲ & CSA	Yes	Auto	E
SLA-230-ALE	190-270 Adj	158-224	171-243	Figure 3	▲ & CSA	Yes	Auto	E
SLA-380-ALE	350-440 Adj	290-365	315-396	Figure 3	▲ & CSA	Yes	Auto	E
SLA-440-ALE	430-480 Adj	357-398	387-432	Figure 3	▲ & CSA	Yes	Auto	E
SLA-575-ALE	525-625 Adj	436-519	473-563	Figure 3	▲ & CSA	Yes	Auto	E
SLA-120-ALER	95-130 Adj	79-108	85-117	Figure 3	▲ & CSA	Yes	Manual	E
SLA-230-ALER	190-270 Adj	158-224	171-243	Figure 3	▲ & CSA	Yes	Manual	E
SLA-380-ALER	250-440 Adj	290-396	315-396	Figure 4	▲ & CSA	Yes	Manual	E
SLA-440-ALER	430-480 Adj	357-398	387-432	Figure 4	▲ & CSA	Yes	Manual	E
SLA-120-AFN	120	100	108	Figure 5	●	No	Auto	N
SLA-208-AFN	208	173	187	Figure 5	●	No	Auto	N
SLA-220-AFN	220	183	198	Figure 5	●	No	Auto	N
SLA-230-AFN	230	191	207	Figure 5	●	No	Auto	N
SLA-240-AFN	240	199	216	Figure 5	●	No	Auto	N

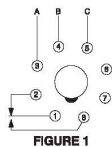


FIGURE 1

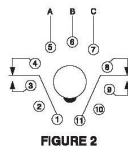


FIGURE 2

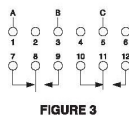


FIGURE 3

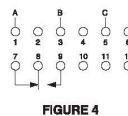


FIGURE 4

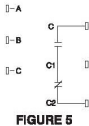


FIGURE 5

* UL LISTED ONLY WHEN USED WITH RB-08 SOCKET

● UL Recognized
▲ UL Listed

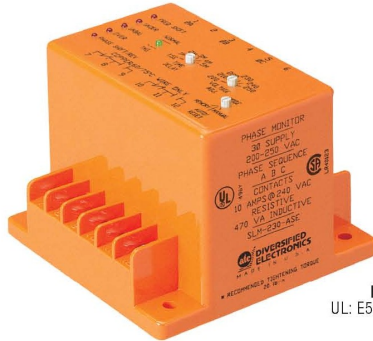
NOTES:
ALL MODELS AVAILABLE WITH FIXED OPERATING VOLTAGES
ALL MODELS AVAILABLE IN 400 Hz OPERATION - CONSULT FACTORY



3-Phase Motor Protection



SLM Series — Microprocessor Controlled Phase Monitor



FILE NUMBERS
UL: E55826 CSA: LR40123

FEATURES

- Fault Indicators
- External Adjustments
- Auto/Manual Reset
- Delay-On-Make
- Last Fault Memory
- DPDT Contacts
- Low Power Consumption
- Compact Packaging

PROTECTS AGAINST

- Phase Loss
- Under Voltage
- Over Voltage
- Phase Unbalance
- Phase Reversal
- Frequency Shift
- Phase Shift
- Uniform Restart In Multiple Load Installations

MODEL NO.	NOMINAL PHASE TO PHASE VOLTAGE SET POINTS	MAXIMUM VOLTAGE
SLM-120-ASE	105, 110, 115, 120, 125, 130	143 VAC
SLM-230-ASE	200, 210, 220, 230, 240, 250	275 VAC
SLM-380-ASE	350, 365, 380, 390, 400, 415	457 VAC
SLM-440-ASE	440, 450, 460, 470, 480, 490	540 VAC
SLM-575-ASE	525, 550, 575, 600	690 VAC

DESCRIPTION

The SLM Series are completely digital monitoring devices designed to detect a wide variation of incoming line abnormalities. Not only are they designed to protect your valuable equipment against Phase Loss, Under Voltage, and Phase Reversal but they allow for the added protection of Over Voltage, Phase Unbalance, Frequency Shift, and Phase Shift. With three modes of operation available in one package, the user has the freedom to choose Auto, Manual, or Memory functions to aid in the prevention of equipment failure and for use as a diagnostic tool.

SPECIFICATIONS

PHASE SEQUENCE:	ABC (Will Not Operate On CBA Sequence)		
TRIP POINTS:			
UNDER VOLTAGE:	-10% of Setting		
OVER VOLTAGE:	+10% of Setting		
FREQUENCY TRIP POINTS:			
DROP-OUT:	±4% of 60 Hz (380 V, 50 Hz)		
PICK-UP:	±3% of 60 Hz (380 V, 50 Hz)		
UNBALANCE TRIP POINTS:			
DROP-OUT:	7%		
PICK-UP:	5%		
OUTPUT RATING:	DPDT, 360 VA Inductive; 1/2 hp 3 A Resistive @ 600 VAC		
RESPONSE TIMES			
OPERATE:			
Sampling	2 Seconds		
Delay-on-Make	(Sampling Delay) + (1.5 seconds to 5 minute delay) Adjustable in one (1) minute increments		
RELEASE:			
Under Voltage:	1.5 Sec., (Approximately)		
Over Voltage	1.5 Sec., (Approximately)		
Frequency Shift	1.5 Sec., (Approximately)		
Unbalance	2.0 Sec., (Approximately)		
* Phase Loss/Shift	1.0 Sec., (Approximately)		
RESET MODES:	Automatic; Manual; Automatic with Memory		
LED INDICATORS:	COLOR	STATE	CONDITION:
DESIGNATION	Green	Flashing	Timing
Time Delay/Normal		ON	Output Energized
Under Voltage	Red	ON	Fault
Over Voltage	Red	ON	Fault
Phase Sequence, Shift	Red	ON	Fault
Frequency Shift	Red	ON	Fault
Unbalance	Red	ON	Fault
POWER REQUIRED:	7 VA Typical		
TRANSIENT WITHSTAND:	2500 Volts for 10 ms		
TEMPERATURES			
OPERATE:	0°C to +155°C		
STORAGE:	-45°C to +85°C		
CONFIGURATION			
CONTROL:	SPST-N.O.		
AUXILIARY:	SPDT		
ENCLOSURE:	Style "E", LEXAN® Surface Mounted		
TERMINATIONS:	(12) #8-32 Screw Terminals		
AGENCY APPROVALS:	UL Listed; File #E55826 CSA Certified File #LR40123		



3-Phase Motor Protection



SLU Series — Multi-Mode Phase Monitor with Relay



SLU-100-ASA

SLU-100-ASD



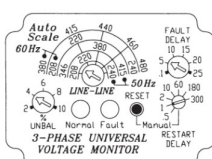
FEATURES

- DIN Rail Mount & Plug-In Style Available
- Adjustable Restart Delay
- Adjustable Fault Delay
- Manual or Automatic Reset
- Adjustable Operating Range: 200-500 VAC 3-Phase Nominal

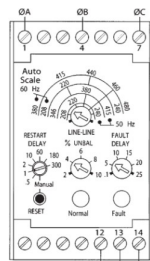
PROTECTS AGAINST

- Phase Loss
- Phase Unbalance
- Phase Reversal
- Over/Under Voltage
- Over/Under Frequency
- Phase Shift

TOP LABELS



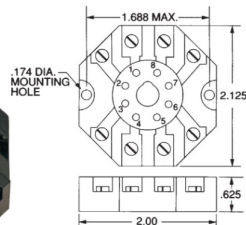
SLU-100-ASA



SLU-100-ASD



RB-08



DESCRIPTION

Phase Monitor Relays (3-Phase Monitors) provide cost-effective protection against premature equipment failure caused by voltage faults on 3-Phase systems (Wye or Delta). Until recently, different phase monitors were required to address voltage range and protection requirements for each individual power and motor circuit. The SLU Series multimode phase monitoring relay, was designed for the convenience of electricians, maintenance managers and engineers. A single SLU Phase Monitoring Relay can be easily adjusted for the voltage, imbalance percentage and time delay requirements to protect against unbalanced voltages or single phasing regardless of any regenerative voltages.

AUTO RANGING SCALES

Frequency	Nominal Line-to-Line Voltages	Adjustable Range
60 Hz	208, 220, 240	200-250
60 Hz	380, 415, 440, 460, 480	360-500
50 Hz	208, 220, 240	200-250
50 Hz	346, 380, 415	330-430

SPECIFICATIONS

VOLTAGE BAND

DROP-OUT: ±10% of Range Setting (Under/Over)

PICK-UP: ±7% of Range Setting (Under/Over)

PHASE SEQUENCE: ABC (Will Not Operate On CBA Sequence)

PHASE UNBALANCE: 2% to 10%, Adjustable Drop-out

PHASE SHIFT: 13° Drop-out, 12° Pick-up (Phase-Loss)

RESPONSE TIMES

POWER UP: 2.5 S Minimum

FAULT DELAY: 0.1 to 25 S, Adjustable

SEVERE FAULT: 100mS (Phase-Loss, Unbalance or Phase Reversal)

RESTART: 0.5 to 300 S, Adjustable (Automatic Reset)

HYSTERESIS: 10% of Setting

RELAY OUTPUT: SPDT, 10A @ 240 VAC Resistive, 1/2 HP @ 240 VAC

FREQUENCY SHIFT: ±4% Drop-out, ±3%, Pick-up 50 or 60 Hz

INDICATORS

NORMAL (GREEN LED):

FAULT (RED LED):

FLASHING

Fault Delay Active

Restart Delay Active

CONTINUOUS

Relay Energized

Relay De-energized

TEMPERATURES

OPERATE: 0°C to +55°C

STORAGE: -45°C to +85°C

REPEAT ACCURACY: 1% @ Fixed Condition

TERMINALS: Slotted Screw Terminal Clamps, 12AWG Max. (DIN Rail Only)

ENCLOSURE

STYLE A: LEXAN® Dust Cover

DIN RAIL: 35mm DIN Rail, 14 Term Polycarbonate Housing

Relay Socket Recommended

UL Recognized and CSA Certified for 10A@600VAC. The molded thermoplastic base has brass, nickel plated inserts with #6-32 steel, nickel plated screws.



Linesets & Minisplit Accessories

Linesets Minisplit Accessories

Twinsplit twin insulated copper tube

Copper tube is made according to ASTM B280 and covered with Ebrille's foamed polyethylene, obtained by extrusion using environmentally friendly gases. Cleaned inside and sealed at the ends under a pressure of more than 70 tons, These products are the ideal solution for air conditioning systems, conveyance of refrigerant gases and mini split.

- ✓ Produced by Ebrille, a company with more than 40 years experience with PE insulated linesets
- ✓ Our products reduce installation time and the tight insulation fit improve R value
- ✓ Insulated with a tough tight fitting PE foam insulation. Eliminates condensation water logging and installation tears
- ✓ Available in diameters 1/4" - 5/8"
- ✓ Insulation thickness 1/2"
- ✓ Insulation chemistry meets ASTM E84



TECHNICAL DATA							
First copper tube OD	inch	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"
Second copper tube OD	inch	3/8"	1/2"	5/8"	1/2"	5/8"	3/4"
First copper tube thickness	inch	0,03	0,03	0,03	0,032	0,032	0,032
Second copper tube thickness	inch	0,032	0,032	0,035	0,032	0,035	0,035
P = allowable pressure at 200°F (ASME B31) first copper tube	psi	1125	1125	1125	787	787	787
P = allowable pressure at 200°F (ASME B31) second copper tube	psi	787	700*	700*	700*	700*	700*
Main PE foam insulation thickness	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Thermal conductivity at 75°F	0,0357 W/mk (0,248 Btu - in / h *sq. Ft * °F)						
Outer PE skin thickness	µm	200	200	200	200	200	200
Roll lengths	ft	50	50	50	50	50	50
		25	25	25	25	25	25

* experimental working pressures



POLYETHYLENE INSULATION "R" VALUE		
r values (h* ft* °f / btu λ. thermal conductivity w/m*k = 0.0357 a 24°C 0.248 btu - in / h * ft 2+°f)		
Pipe insulation ID size	Insulation thickness 1/2"	Insulation thickness 3/4"
1/4"	4.1	6.6
3/8"	3.6	5.9
1/2"	3.3	5.4
5/8"	3.1	5.1
3/4"	3.0	4.8
7/8"	3.0	4.6

Global No.	Description	Pallet Qty
E14121250B	Twinsplit 1/4-1/2 x 50ft Black	16
E14381250B	Twinsplit 1/4-3/8 x 50ft Black	16
E38581250B	Twinsplit 3/8-5/8 x 50ft Black	13

UNIVERSAL SELF FLARE FITTINGS

FOR COPPER AND ALUMINIUM TUBES

- EBRILLE -
INDUSTRIES

(G) EXCLUSIVE DISTRIBUTOR

NEW PRODUCT



EBRILSMART TECHNICAL CHARACTERISTICS

- Working temperature: -49°F to 302°F
- Maximum operating pressure: 45 bar
- Suitable for all refrigerants HCFC, HFC, HC Triple metallic seal
- Compatible with traditional 45° flare fittings
- The use of a torque wrench for the installation is not required
- To be used exclusively on R220 annealed copper tubes and OH111 aluminium tubes

EBRILSMART CERTIFICATION

- Conformity with European Directives (PED, RoHS, and REACH)
- Superior performance than the traditional 45° flare fittings

Global No.	Description	Case Qty
ES14	Ebrilsmart 1/4" fitting 2-Pack	30
ES38	Ebrilsmart 3/8" fitting 2-Pack	25
ES12	Ebrilsmart 1/2" fitting 2-Pack	25
ES58	Ebrilsmart 5/8" fitting 2-Pack	25



**COUNTER
DISPLAY
AVAILABLE**

PART NUMBER ES-DISPLAY



Relays & Transformers

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Transformers
Fan Centers

Customer Service: (800) 531-5967

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Fan Relays

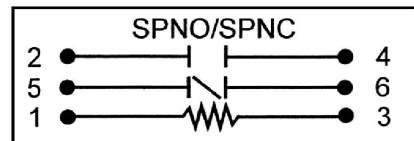
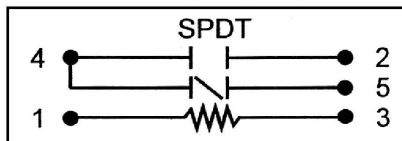
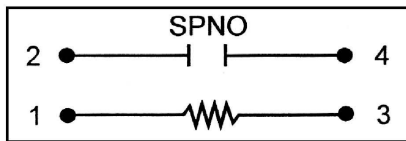
AMERICAN ZETTLER, INC. - 340, 290, 360, 370, 380 Series

Global general purpose fan relays are value priced and UL recognized. The Global GFR series includes a universal mounting bracket and will replace the most popular products in use today.

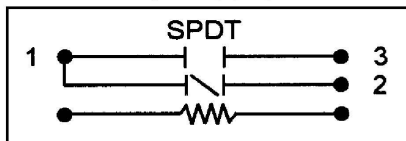
Fan Relays

Global No.	Coil VAC	Contact Type	Contact Rating											
			Locked Rotor Inrush				Resistive				Full Load Inductive			
			120	250	277	480	120	250	277	480	120	250	277	480
GFR-290	24	SPNO	18	18	—	—	16	16	—	—	8	8	—	—
GFR-291	120													
GFR-292	208/240													
GFR-293	24	SPDT	72	—	36	18	15	—	15	10	—	—	6	3
GFR-294	120													
GFR-295	208/240													
GFR-340	24	DPDT	60	48	42	—	18	18	18	—	12	8	7	—
GFR-341	120													
GFR-342	208/240													
GFR-343	24	SPDT												
GFR-370	24	SPDT	60	48	42	—	18	18	18	—	12	8	7	—
GFR-372	120													
GFR-374	208/240													
GFR-377	277													
GFR-380	24	SPNO/SPNC	60	48	42	—	18	18	18	—	12	8	7	—
GFR-382	120													
GFR-384	208/240													

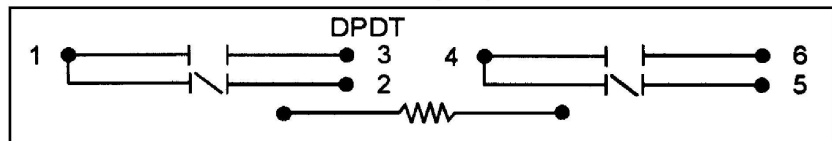
SERIES 290, 360, 370, 380



SERIES 343



SERIES 340, 341, 342



Customer Service: (800) 531-5967

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Fan Relay Cross Reference

Global No.	VAC	Contacts	JARD	MARS	Packard	SUPCO	Diversitech
GFR-290	24	SPNO	JFR-290	90290	PR290Q	90290	D90-290
GFR-291	120	SPNO	JFR-291	90291	PR291Q	90291	D90-291
GFR-292	208/240	SPNO	JFR-292	90292	PR292Q	90292	D90-292
GFR-293	24	SPDT	JFR-293	90293	PR293Q	90293	D90-293
GFR-294	120	SPDT	JFR-294	90294	PR294Q	90294	D90-294
GFR-295	208/240	SPDT	JFR-295	90295	PR295Q	90295	D90-295
GFR-340	24	DPDT	JFR-340	90340	PR340	90340	D-90340
GFR-341	120	DPDT	JFR-341	90341	PR341	90341	D-90341
GFR-342	208/240	DPDT	JFR-342	90342	PR342	90342	D-90342
GFR-343	24	SPDT	JFR-343	90343	—	—	—
GFR-370	24	SPDT	JFR-370	90370	PR370	90370	D90-370
GFR-372	120	SPDT	JFR-372	90372	PR372	90372	D90-372
GFR-374	208/240	SPDT	JFR-374	90374	PR374	90374	D90-374
GFR-377	277	SPDT	JFR-377	—	—	—	—
GFR-380	24	SPNO/SPNC	JFR-380	90380	PR380	90380	D90-380
GFR-382	120	SPNO/SPNC	JFR-382	90382	PR382	90382	D90-382
GFR-384	208/240	SPNO/SPNC	JFR-384	90384	PR384	90384	D90-384



Potential Relays



The Global line of potential relays are superior in both price and performance. These relays assist in the control of air conditioning, heating or refrigeration system compressor motors.

Features and Benefits:

- 50A switching capability
- SPST-NC configurations
- .250" quick connect termination
- ISO 9001 certified
- UL, CUR SA11095
- Non-position sensitive design*
- Universal mounting— complete with screws



Potential Relays - Case Qty 75

Global No.	Hold Voltage	Pick-Up Voltage	Drop Out Voltage
GPR-63	170	140-153	30-65
GPR-64	395	245-275	60-140
GPR-65	336	171-184	55-90
GPR-66	395	208-239	60-130
GPR-67	420	300-328	75-121
GPR-68	495	323-352	75-135
GPR-69	336	180-195	40-105
GPR-70	253	285-305	35-77
GPR-71	420	212-232	60-121

Potential Relay Cross Reference

Global No.	JARD No.	MARS No.	MARS No.	General Electric Groups
GPR-63	JPR-63	19002	19163	2J, 2K, 2L, 2M, 5n, 7J, 7K, 7L, 7M, 7n, 8L, 8M, 8N
GPR-64	JPR-64	19003	19164	3A, 3B, 3AV, 3AU, 4A, 4B, 6A, 6B, 6AV, 10A, 10B, 10AU, 10A
GPR-65	JPR-65	19004	19165	3P, 3R, 3AP, 5P, 5R, 5S, 5T, 22S
GPR-66	JPR-66	19005	19166	3U, 3V, 3AT, 6U, 6V, 6W
GPR-67	JPR-67	19006	19167	3C, 3D, 3AA, 4C, 4D, 4BK, 6C, 6D, 6AA, 10C, 10D, 26A, 26B, 26C, 26D
GPR-68	JPR-68	19007	19168	3e, 3F, 3AB, 3AC, 4e, 4F, 4G, 6e, 6F, 6G, 10H, 10AB, 10AC, 26e, 26F, 26G, 26H, 27e, 27F, 27G
GPR-69	JPR-69	19008	19169	3S, 3T, 10S, 10T, 25S, 25T, 10AS
GPR-70	JPR-70	19009	19170	5B, 5C, 5D, 5AA, 8B, 8C, 8D
GPR-71	JPR-71	19010	19171	6TV, 6TW, 10V



Foot Mount Transformers

Open Construction

- Safety agency approved
- Inherently limited design provides protection from short circuiting

Open Construction, Wire Leads

Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT2031F	2031F	44501	20	120/208/240	24
GT4011F	4011F	44502	40	120	24
GT4021F	4021F	44503	40	208/240	24
GT4031F	4031F	44504	40	120/208/240	24
GT4032F*	4032F	44505	40	120/208/240	2.5/12./24
GT40271F	40271F	44507	40	277	24
GT5031F	50531F	44508	50	120/208/240	24
GT5032F	5032F	44509	50	120/208/240	2.5/12./24
GT7531F*	7531F	44510	75	120/208/240	24

- Safety agency approved
- All models feature a UL recognized manual reset circuit breaker

Open Construction With Circuit Breaker

Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT5041C	5041C	44511	50	120/208/240/480	24
GT6041C	6041C	44512	60	120/208/240/480	24
GT7541C	7541C	44513	75	120/208/240/480	24
GT7541STC	7541STC	44514	75	120/277/380/575	24
GT10041C	10041C	44514	100	120/208/240/480	24
GT10041STC	10041STC	44516	100	120/277/380/575	24

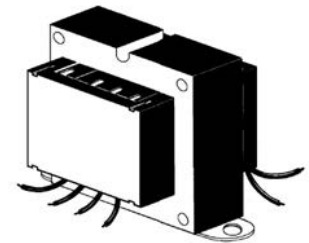
Open Construction With Circuit Breaker

Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT4031OEM	4031OEM	44517	40	120/208/240	24

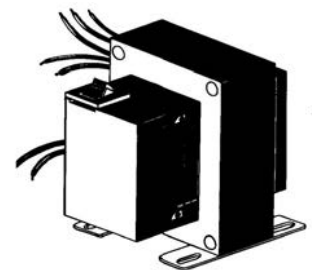
Open Construction With Circuit Breaker

Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT4031VM**	4031VM	44518	40	120/208/240	24

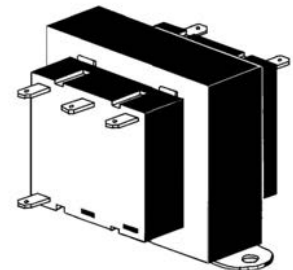
*In-Line fuse protection
 **2 Brackets Included



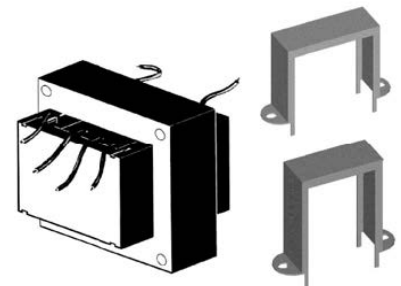
GT4031F



GT7541C



GT40310OEM



GT4031VM

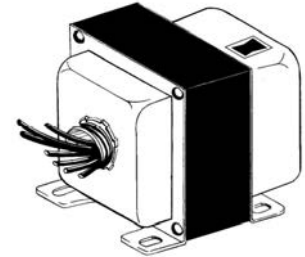


Hub and Multi-Mount Transformers

Hub Mount Transformers

Available either in 50VA or 75 VA, these 2 versatile transformers replace Honeywell® AT150F and AT175F. All leads pass through the chase nipple.

- Model 5041MCB, 50 VA, Model 7541MCB, 75 VA
- Plate mount or foot mount
- Four inputs including 120/208/240/480 VAC
- UL Recognized



With Circuit Breakers and Multiple Inputs of 120/208/240/480 VAC

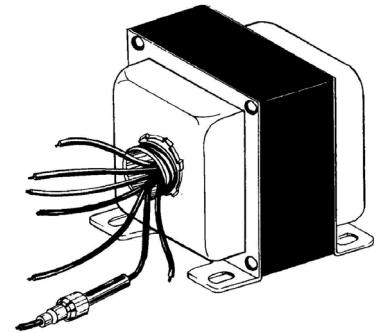
Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT5041MCB	5041MCB	44519	50	120/208/240/480	24
GT7541MCB	7541MCB	44520	75	120/208/240/480	24

Multi-Mount Transformers

- Optional 3-way mounting for maximum flexibility
- Safety agency approved
- Welded laminations for quiet operation

Closed Construction, 4" X 4" Plate

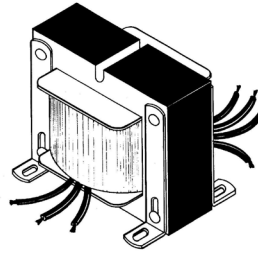
Global No.	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT4011M	4011M	44522	40	120	24
GT4021M	4021M	44523	40	208/240	24
GT4031M	4031M	44524	40	120/208/240	24
GT5031M	5031M	44525	50	120/208/240	24
GT5032M	5032M	44526	48	120/208/240	2.5/12./24
GT7541M	7541M	44527	75	120/208/240/480	24
GT7541STM	7541STM	44528	75	120/240/277/575	24



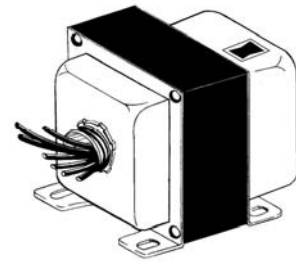


Power Transformers

- Several models with dual voltage output
- Welded laminations for quiet operation
- Conservative heat rise characteristics



GT5024P



GT10048P

Power Transformers

Global No.	Description	Jard No.	Mars No.	VA	Primary VAC	Secondary VAC
GT5024P	Foot mount, wire leads	5024P	44536	50	208/240	120/24
GT7524P	Foot mount, wire leads	7524P	44538	75	208/240/480	120/24
GT10048P	Fully enclosed junction box ready	75481P	44539	100	480	120

Product Overview

CALCULATION OF VA REQUIREMENTS:

Transformer power is rated by the VA (Voltage-Ampere) capability. To determine the required transformer VA, multiply the transformer output voltage (VAC) by the current required (Amps.) to power the load.

$$\text{VA} = \text{Volts} \times \text{Amperes}$$

To determine the maximum output current of a transformer, divide the transformer VA rating by the transformer output voltage (VAC).

$$\text{Amperes} = \text{VA} \div \text{VAC}$$

COLOR CODES FOR TRANSFORMER LEADS:

Primary Side:

<u>Common</u>	<u>120</u>	<u>208</u>	<u>240</u>	<u>277</u>	<u>380</u>	<u>480</u>	<u>575</u>
White	Black	Red	Orange	Brown	Yellow	Violet	Gray

Secondary Side:

<u>Common</u>	<u>2.5</u>	<u>12</u>	<u>24</u>
Blue	Violet	Gray	Yellow



Transformer Cross Reference

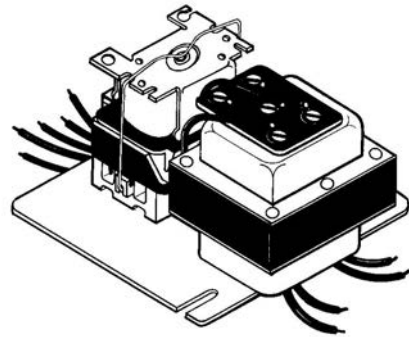
Transformer Cross Reference						
Global	Jard	Mars	Honeywell	Universal	White Rogers	Packard
GT2031F	2031F	50351	AT20A1123	UET114	—	PF42420
GT4011F	4011F	50352, TR405, 50201	AT40A1121 AT140B1206	—	90-T40F1	PF12440
GT4021F	4021F	50353, TR406, 50202	AT40A1139 AT140B1032	—	90-T40F2	PF22440
GT4031F	4031F	50354, 50217, TR123, 50203	AT40A1121 AT40A1139 AT140B1214	UET105 UET115	90-T40F3	PF42440
GT4032F	4032F	50355, 50356, TR401, 50205	—	UET101	—	PF32440
GT40241F	40241F	50356	—	—	—	—
GT40271F	40271F	50306	AT87A1189	—	—	PF27440
GT4031OEM	4031OEM	50362, 50363, T100E, 50213	—	—	—	—
GT5031F	5031F	50358	AT150B1146	—	90-T50F3	—
GT7531F	7531F	50324	—	UET175	—	PF52475F
GT5041C	5041C	50327, TC500C/B, 50227	—	—	90-T50C3	—
GT6041C	6041C	50316	—	UET160	90-T60C3	PF52460
GT7541C	7541C	50321, 50231, T750C/B	AT88A1005 AT88A1021 AT88A1047	UET179R UET175	90-T75C3	PF52475
GT7541STC	7541STC	—	—	—	—	—
GT10041C	10041C	50341, 50340	—	—	—	PF524100
GT10041STC	10041STC	—	—	—	—	—
GT2031M	2031M	50301	AT120A1004	—	—	—
GT4011M	4011M	50302	AT72D1683 AT140A1000	UET112	90-T40M1	PM12440
GT4031M	4031M	50303, 50304	AT40A1018 AT140A1026 AT72D1683 AT72D1691 AT140A1018	UET113	90-T40M3 90-T40M2	PM32440 PM42440
GT5031M	5031M	50314	AT87A1106 AT87A1007 AT87A1049 AT87A1056 AT150A1007	UET150	90-T50M3	PM44450
GT5032M	5032M	50333	—	UET111	—	PM43448
GT7541M	7541M	50320, 50322, 50324, 50326	AT88A1005 AT88A1021 AT88A1047 AT175A1008 AT175F1023	—	—	—
GT4011FC GT40118FC	4011FC 40118FC	24013/24020	R828TA1048	—	90-113	FC90113
GT4031FC	4031FC	24010/24022	R8285B1053	—	90-118	FC90119
GT5041MCB	—	5041MCB	—	—	—	—
GT7541MCB	—	7541MCB	—	—	—	—



Fan Center controls provide convenient low voltage control of one and two speed fan motors and auxiliary circuits in heating, cooling or heating/cooling applications. Each Global fan center control is a reliable, compact unit consisting of a 24 volt control transformer and a plug-in switching relay mounted on a 4" square electrical junction box cover. All line voltage connections are made inside the box with color coded pre-stripped leads. Low voltage connections are made at a convenient terminal board mounted to the transformer.

Features and Benefits:

- Plug-in style relay for easy field replacement
- Pre-stripped, color coded leads simplify wiring
- Combination screw/solder terminals for low voltage wiring
- Standard double-throw relays handle both one and two speed motors

**Fan Centers**

Global No.	VA	Primary VAC	Secondary VAC	Contact Type	HP Rating
GT40118FC	40	120	24	DPDT	3/4
GT4031FC	40	208/240	24	DPDT	3/4



Specialty Products

Cleaners & Degreasers
La-Co Products
Tapes & Sealants
Wire Nuts
Power Cords
Squeegee Supreme



LA-CO® - Various Products

Part No.	Description	Case Qty
G32850	All Temp Leak Detect	24
G08910	Bic EZ Break Compound	24
G11511	Bloc-It 10 oz.	24
G11509	Cool Gel 1 qt.	12
G11575	Heat Seal Stik	12
G11577	Heat Seal Stik 3/8 oz.	12
G44072	Low Density Teflon Tape 1/2" X 250"	144
G79711	Pierce 12 oz.	24
G12219	Pipe Joint Stik	24
G12110	Pipe Tite 1/2 pt.	24
G11775	Plasto Joint Stik	144
G22107	Regular Flux Paste 1 lb.	24
G22101	Regular Flux Paste 2 oz.	48
G22104	Regular Flux Paste 4 oz.	48
G79706	Rust Buster Zoom Spout 4 oz.	24
G96023	Sharpie #15- Black	72
G22302	Silver Brazing Flux Paste	48
G42009	Slic-Tite Paste 4 oz.	24
G42019	Slic-Tite Paste 8 oz.	24
G41600	Slic-Tite Stik	24
G79704	Zoom Spout Oiler	24
G969820	Valve Action Paint Marker (white, yellow, red, blue, black, green)	48

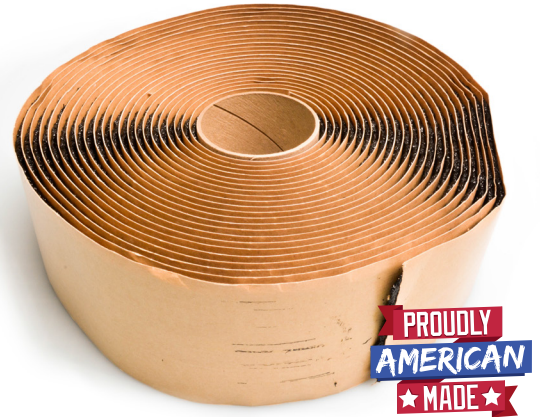




Tapes and Power Cords

Tape, Permagum

Part No.	Description	Case Qty
7500	Cork Tape 1/8" X 2" X 30'	1
7501	Foam Tape, 1/8" X 2" X 30'	56
7502	Mastagum, 3/8" X 25'	1
7504	Mastagum, 2 lb. Slug	1



Power Cords

For multiple uses and suitable for a replacement power cord for air conditioners, refrigerators, freezers, micro-waves.

Part No.	Description	Case Qty
8065	6' Pigtail, 115V, 90° Plug, 16 Gauge	50
8065S	6' Pigtail, 115V, Straight Plug, 16 Gauge	25
8066	3' Pigtail, 115V, 90° Plug, 16 Gauge	100
8067	6' Pigtail, 124V, 12 Gauge	25





Easy-Twist Wire Connectors

Easy-Twist® Wire Connectors are well known for giving you more - in less twists, less labor, less time. Flame retardant UL 94V-2 thermo-plastic shell provides excellent electrical insulation. Temperature rating 105°C (221°F), fixed, precise square wire spring provides secure gripping of conductors. Deep skirt entry provides protection from flashover and shorts. Sure-grip ribs improve gripping ability and comfort, compact design ensures proper installation – especially in tight spaces. Threaded funnel entry guides the wires into the connector easily, pre-twisting of wires is not necessary, 1,000 volt maximum in fixtures and signs.



Part No.	Description	Wire Range	Quantity
WN-1	STANDARD GREY EASY TWIST	22-14 AWG	CARTON OF 100
WN-1J	STANDARD GREY EASY TWIST	22-14 AWG	JAR OF 300
WN-2	STANDARD BLUE EASY TWIST	22-14 AWG	CARTON OF 100
WN-2J	STANDARD BLUE EASY TWIST	22-14 AWG	JAR OF 300
WN-3	STANDARD ORANGE EASY TWIST	22-14 AWG	CARTON OF 100
WN-3J	STANDARD ORANGE EASY TWIST	22-14 AWG	JAR OF 300
WN-4	STANDARD YELLOW EASY TWIST	22-10 AWG	CARTON OF 100
WN-4J	STANDARD YELLOW EASY TWIST	22-10 AWG	JAR OF 200
WN-4SJ	STANDARD YELLOW EASY TWIST	22-10 AWG	JAR OF 100
WN-5	EASY TWIST MULTI PAIL 4PK, ORANGE / YELLOW / RED / BLUE	—	—
WN-6	STANDARD RED EASY TWIST	22-8 AWG	CARTON OF 100
WN-6J	STANDARD RED EASY TWIST	22-8 AWG	JAR OF 350
WN-6SJ	STANDARD RED EASY TWIST	22-8 AWG	JAR OF 100
WN-7	WINGED BLUE EASY TWIST	14-6 AWG	CARTON OF 50
WN-7J	WINGED BLUE EASY TWIST	14-6 AWG	JAR OF 50
WWN-1	WINGED GREY EASY TWIST	18-8 AWG	CARTON OF 50
WWN-4SJ	WINGED YELLOW EAST TWIST	18-10 AWG	JAR OF 100
WWN-6SJ	WINGED RED EASY TWIST	18-8 AWG	JAR OF 100



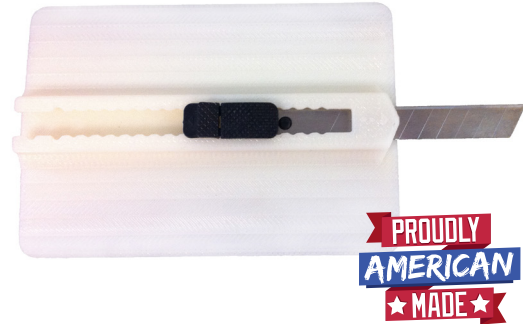
Squeegee Supreme

Squeegee Supreme

The Squeegee Supreme not only smoothes out tape on duct work, but cuts it as well.

Features and Benefits:

- 2 tools in one
- Retractable blade for safety
- Works with all duct tape
- Made in the USA



Global No.	Description	Case Qty
SS-4	Squeegee with blade; 4 pack	24 Packs



Tools

The Job Knob Short-pro Tool

Customer Service: (800) 531-5967

Trust the (G)

www.GlobalTheSource.com



The Job Knob

Many acetylene tanks do not come with a mechanism on the valve to open them, only a metal shank. The Job Knob offers the user the ability to open and close the valve with ease without jeopardizing the integrity of the shank. The Job Knob also **magnetically** stays with the tank in use until the time of exchange, where it can easily slide onto the new tank valve.

Caution: make sure valve stem is completely shut off and hoses are bled before storing tanks.

Global No. - Job Knob

Features and Benefits:

- Open/close valve with ease
- No more stripping the stem
- Fits large and small tanks
- Stays on magnetically
- Removable- easily slides onto new tank valve
- 2 lb. draw from magnet
- Temperature range: -50/+400



Acetylene Safety Info:

These were copied and pasted directly from OSHA.gov and are open to interpretation.

1910.253(b)(5)(ii)(E)

Cylinders not having fixed hand wheels shall have keys, handles, or nonadjustable wrenches on valve stems while these cylinders are in service. In multiple cylinder installations only one key or handle is required for each manifold.

1910.253(b)(5)(ii)(Q)

A hammer or wrench shall not be used to open cylinder valves. If valves cannot be opened by hand, the supplier shall be notified.

1910.253(b)(5)(iii)(L)

Where a special wrench is required it shall be left in position on the stem of the valve while the cylinder is in use so that the fuel-gas flow can be quickly turned off in case of emergency. In the case of Mani folded or coupled cylinders at least one such wrench shall always be available for immediate use.

ALSO

Special Rules for the use of Acetylene Cylinders (provided courtesy of National Welders Supply Inc. <http://www.nwsco.com>)

- 1.Acetylene should never be used at a pressure exceeding 15 pounds per square inch.
- 2.Acetylene cylinders should be used and stored in an upright position to avoid possibility of drawing out acetone.
- 3.Keep sparks and flame away from Acetylene cylinders.
- 4.Never use Acetylene from cylinders through blowpipes or other devices equipped with shut off valves on the Acetylenesupply connections, without reducing the pressure through a suitable regulator attached to the cylinder valve.
- 5.After removing valve cap, open valve for a moment to clear opening of dust or dirt particles.
- 6.After attaching regulator and before cylinder valve is opened, see that adjusting screw of the regulator is released. Alwayskeep the Acetylene cylinder valve key or wrench on the cylinder while in use. Never open an Acetylene cylinder valve morethan one full turn; then, in case of fire, the valve can be closed immediately.
- 7.Before regulator is removed from a cylinder, close the cylinder valve and release all gas from regulator.
- 8.Never attempt to transfer Acetylene from one cylinder to another nor to mix any other gas with it in the cylinder.
- 9.The wrench used for opening the cylinder valve should always be kept on the valve stem when cylinder is in use.
- 10.When returning empty cylinders, see that valves are closed to prevent evaporation of acetone.
- 11.Never, under any circumstances, attempt to refill an Acetylene cylinder.
- 12.Never test for Acetylene leaks with an open flame. Use an approved leak detector or solution.



Short-Pro Tool

Short-Pro Tool

Automatic reset circuitry used to quickly locate shorts in 24VAC circuits while protecting controls from damage.

Features and Benefits:

- Automatically resets when lead (short) is removed
- Saves time— no more running to the parts store for fuses
- Saves money— no more burned out fuses while troubleshooting
- Saves equipment— circuit board and/or transformer is protected from not having the right size fuse
- East to use— when light is on, the short exists; when light goes off, the short is fixed
- 12" leads with alligator clips
- One year warranty
- Global No. - GSPT
- Case Qty - 25

