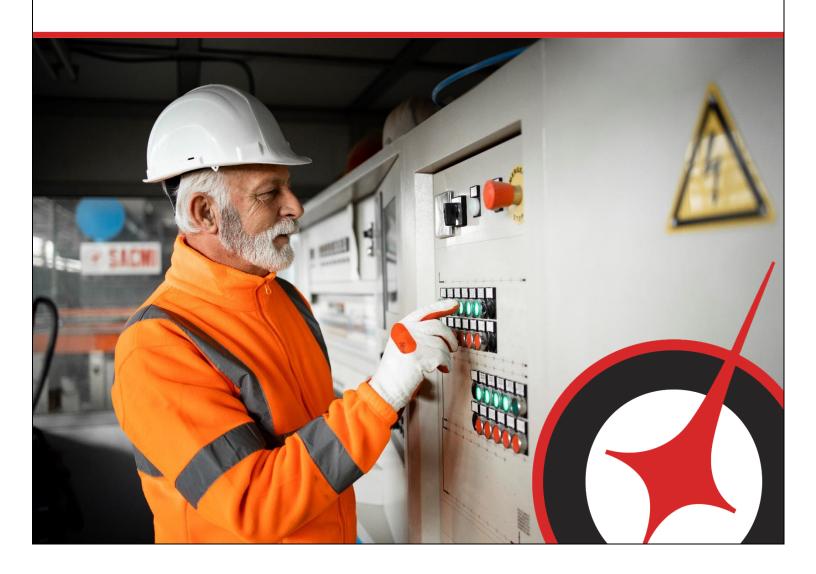


CONTROL

Quick Selector Guide





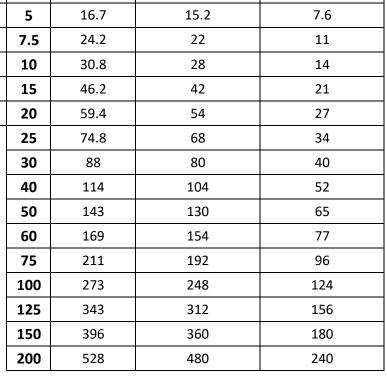
Motor Current Rating Chart for Full Load Amps

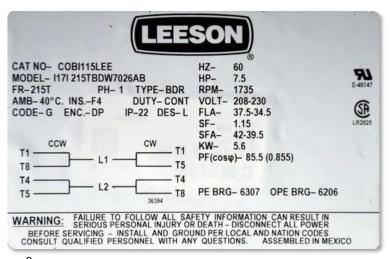
| 1-Phase AC Motor F.L.A. | | | | 3-F | hase AC Motor F.L | .A. |
|-------------------------|---------------|---------------|-----|-----------|-------------------|---------------|
| HP | 110-120 Volts | 220-240 Volts | HP | 208 Volts | 220-240 Volts | 440-480 Volts |
| 1/4 | 5.8 | 2.9 | 1/2 | 2.4 | 2.2 | 1.1 |
| 1/3 | 7.2 | 3.6 | 3/4 | 3.5 | 3.2 | 1.6 |
| 1/2 | 9.8 | 4.9 | 1 | 4.6 | 4.2 | 2.1 |
| 3/4 | 13.8 | 6.9 | 1.5 | 6.6 | 6 | 3 |
| 1 | 16 | 8 | 2 | 7.5 | 6.8 | 3.4 |
| 1.5 | 20 | 10 | 3 | 10.6 | 9.6 | 4.8 |
| 2 | 24 | 12 | 5 | 16.7 | 15.2 | 7.6 |
| 3 | 34 | 17 | 7.5 | 24.2 | 22 | 11 |
| 5 | 56 | 28 | 10 | 30.8 | 28 | 14 |
| 7.5 | 80 | 40 | 15 | 46.2 | 42 | 21 |
| 10 | 100 | 50 | 20 | 59.4 | 54 | 27 |
| | | • | 25 | 74.8 | 68 | 34 |
| - 1 (11) | | | 30 | 88 | 80 | 40 |

The full-load current values are for motors running at usual speeds and motors with normal torque characteristics. Motors built for especially low speeds or high torques may have higher full-load currents, and multi-speed motors will have full- load currents varying with speed. In these cases, the nameplate current ratings should be used.

This table is intended to be a general guide for AC motor Full Load Amperes. Always use the F.L.A. written on the motor nameplate first if it is available.









Womack Electric Supply Company's focus on the industrial market brings the resources that promote energy savings, increase efficiency, reduce downtime, and save money. Womack Electric provides industrial solutions by understanding the business, anticipating needs, and working to attack the most critical areas. From world class products to trained specialists, Womack Electric is the local source to serve this rapidly changing market.

Established in 1938, Womack Electric's customer centric philosophy serves to focus our efforts on consistent conformance to customer expectations for quality products and professional service. We understand that our own success is a direct result of the success of those we serve. We articulate this philosophy every day in the capabilities and pride of workmanship of every Womack Electric employee serving you.

Womack Electric is proud to be a member of the Crescent Electric Supply family. Crescent Electric is one of the largest electrical distribution companies in the United States with branches nationwide.















Contact your local Womack Electric Supply representative to learn more about Womack's industrial product and service solutions.





CONTROL **Quick Selection Guide**

| | 04 | IEC (| Conta | ctors | & Start | ers |
|--|----|-------|-------|-------|---------|-----|
|--|----|-------|-------|-------|---------|-----|

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IEC Contactors & Starters

EATON XT Contactors

| Part Number | Description | HP @480V | Frame |
|--------------|--|----------|-------|
| XTCE007B10A | Contactor 7A 120V Coil | 3 | В |
| XTCE009B10A | Contactor 9A, 120V Coil | 5 | В |
| XTCE009B10TD | Contactor 9A, 24VDC Coil | 5 | В |
| XTCE009B10T | Contactor 9A, 24VAC Coil | 5 | В |
| XTCE012B10A | Contactor 12A, 120V Coil | 10 | В |
| XTCE015B10TD | Contactor 15A, 24VDC Coil | 10 | В |
| XTCE018C10A | Contactor 18A, 120V Coil | 10 | С |
| XTCE018C10B | Contactor 18A, 240V Coil | 10 | С |
| XTCE018C10TD | Contactor 18A, 24VDC Coil | 10 | С |
| XTCE025C10A | Contactor 25A, 120V Coil | 15 | С |
| XTCE032C10A | Contactor 32A, 120V Coil | 20 | С |
| XTCE032C10TD | Contactor 32A, 24VDC Coil | 20 | С |
| XTCE038C10A | Contactor 32A, 120V Coil | 25 | С |
| XTCE040DS1A | Contactor 40A, 120V Coil, W/1NO-1NC AUX | 30 | D |
| XTCE050DS1A | Contactor 50A, 120V Coil W/1NO-1NC AUX | 40 | D |
| XTCE065DS1A | Contactor 65A, 120V Coil W/1NO-1NC AUX | 50 | D |
| XTCE080FS1A | Contactor 80A, 120V Coil, W/1NO-1NC AUX | 60 | F |
| XTCE095FS1A | Contactor 95A, 120V Coil, W/1NO-1NC AUX | 75 | F |
| XTCE115GS1A | Contactor 115A, 120V Coil, W/1NO-1NC AUX | 100 | G |

EATON XT Solid State Electronic Overload Relays

| Part Number | Description | Aux Contact Config | Frame |
|-------------|-------------------------------|--------------------------|-------|
| XTOE1P6BCS | SS Overload .33-1.65A Frame B | NO-NC | В |
| XTOE005BCS | SS Overload 1-5A Frame B | NO-NC | В |
| XTOE020BCS | SS Overload 4-20A Frame B | NO-NC | В |
| XTOE1P6CCS | SS Overload .33-1.65A Frame C | NO-NC | С |
| XTOE005CCS | SS Overload 1-5A Frame C | NO-NC | С |
| XTOE020CCS | SS Overload 4-20A Frame C | NO-NC | С |
| XTOE045CCS | SS Overload 9-45A Frame C | NO-NC | С |
| XTOE045DCS | SS Overload 9-45A Frame D | NO-NC | D |
| XTOE100DCS | SS Overload 20-100A Frame D | NO-NC | D |
| XTOE100GCS | SS Overload 20-100A Frame F | NO-NC | F |
| XTOE175GCS | SS Overload 35-175A Frame G | NO-NC | G |

EATON Auxiliary Contacts and Accessories

| Part Number | Description | Frame |
|-------------|---------------------------------|-------|
| XTCEXFAC11 | Aux Contact, Top Mount 1NO-1NC | B-C |
| XTCEXFAC22 | Aux Contact, Top Mount 2NO-2NC | B-C |
| XTCEFBG11 | Aux Contact, Top Mount 1NO-1NC | D-G |
| XTCEFBG22 | Aux Contact, Top Mount 2NO-2NC | D-G |
| XTCEXSAB10 | Aux Contact, Side Mount 1NO | В |
| XTCEXSAB01 | Aux Contact, Side Mount 1NC | В |
| XTCEXSCC11 | Aux Contact, Side Mount 1NO-1NC | С |
| XTCEXSBN11 | Aux Contact, Side Mount 1NO-1NC | D-H |
| XTOBXDINC | DIN Rail Adapter CC1 | B-C |

EATON XT Solid State Electronic Overload Relays Remote Mount

| Part Number | Description |
|-------------|---|
| XTOE005CCSS | Solid State Overload, 1-5 AMP, Stand Alone |
| XTOE020CCSS | Solid State Overload, 4-20 AMP, Stand Alone |
| XTOE045CCSS | Solid State Overload, 9-45 AMP, Stand Alone |
| XTOE100GCSS | Solid State Overload, 20-100 AMP, Stand Alone |



The XT Line of IEC Power Control, consisting of contactors, overload relays, mini controls, manual motor protectors and combination style starters, is one of the world's newest and most complete IEC Power Control product lines on the market.

The XT line applies new technology and design to help OEMs address five basic needs:

- Improving production
- Lowering material cost
- Improving performance
- Improving usability
- Improving safety



Manual Motor Protectors



| Part Number | Description | HP @ 480V | Frame |
|-------------|-----------------------|-----------|-------|
| XTPRP16BC1 | MMP Rotary, .116A | * | В |
| XTPRP25BC1 | MMP Rotary .1625A | * | В |
| XTPRP40BC1 | MMP Rotary .254A | * | В |
| XTPRP63BC1 | MMP Rotary .463A | * | В |
| XTPR001BC1 | MMP Rotary .63 - 1A | * | В |
| XTPR1P6BC1 | MMP Rotary 1 - 1.6A | 3/4 | В |
| XTPR2P5BC1 | MMP Rotary 1.6 - 2.5A | 1 | В |
| XTPR004BC1 | MMP Rotary 2.5 - 4A | 2 | В |
| XTPR6P3BC1 | MMP Rotary 4 - 6.3A | 3 | В |
| XTPR010BC1 | MMP Rotary 6.3- 10A | 7-1/2 | В |
| XTPR012BC1 | MMP Rotary 8 - 12A | 7-1/2 | В |
| XTPR016BC1 | MMP Rotary 10 - 16A | 10 | В |
| XTPR020BC1 | MMP Rotary 16 - 20A | 10 | В |
| XTPR025BC1 | MMP Rotary 20 - 25A | 15 | В |
| XTPR032BC1 | MMP Rotary 25 - 32A | 25 | В |
| XTPR040DC1 | MMP Rotary 32 - 40A | 30 | D |
| XTPR050DC1 | MMP Rotary 40 - 50A | 30 | D |
| XTPR058DC1 | MMP Rotary 50 - 58A | 40 | D |
| XTPR063DC1 | MMP Rotary 58 - 63A | 40 | D |

XT Series - Electronic Manual Motor Protectors and Electronic Motor Starters

Eaton XT IEC Power Control Family

- Electronic coil controller allows contactors to reduce power consumption and generate less heat, resulting in lower cooling requirements, the ability to mount more contactors/starters per cabinet, and an extended life on pilot devices that carry control signals.
- AC and DC devices with the same dimensions achieved with an electronically controlled coil system allow for space savings and reduced engineering design time.
- Wiring is not required, therefore increasing installation and maintenance efficiency.
- Twin terminals with separate sockets in contactors up to 400A offer installation and application flexibility when using different size wires. The improved integrity of the connections reduces cabling faults.

*For smaller motors, use FLA data on nameplate.

Accessories

| Part Number | Description | Frame |
|-----------------|---|-------|
| XTPAXLSA | MMP Accessory Line Side Adapter | ALL |
| XTPAXFA11 | MMP Accessory Front Mount Aux A 1NO/1NC | ALL |
| XTPAXSA11 | MMP Accessory Side Mount Aux 1NO/1NC | ALL |
| XTPAXSA12 | MMP Accessory Side Mount Aux 1NO/2NC | ALL |
| XTPAXSA21 | MMP Accessory Side Mount Aux 2NO/1NC | ALL |
| XTPAXCLKA2 | Commoning Link, 3PH to connect 2 MMPs together | В |
| XTPAXCLKA2D | Commoning Link, 3PH to connect 2 MMPs together | D |
| XTPAXCLKA3 | Commoning Link, 3PH to connect 3 MMPs together | В |
| XTPAXCLKA3D | Commoning Link, 3PH to connect 3 MMPs together | D |
| XTPAXCLKA4 | Commoning Link, 3PH to connect 4 MMPs together | В |
| XTPAXCLKA4D | TPAXCLKA4D Commoning Link, 3PH to connect 4 MMPs together | |
| XTPAXCLKA5 | Commoning Link, 3PH to connect 5 MMPs together | В |
| XTPAXLSA | Line Side Adapter for UL508 Combo Starter Installation | В |
| XTPAXLSAD | Line Side Adapter for UL508 Combo Starter Installation | D |
| XTPAXTPCB | Combo Connection Kit - for adjoining XTCE and XTPR combo | В |
| XTPAXECMC | Electrical Connection Kit for adjoining XTCE and XTPR | В |
| XTPAXECMD | Electrical Connection Kit for adjoining XTCE and XTPR | D |
| XTPAXENCSEM65RY | MMP Enclosure (NEMA 1, 12, 3R, Red & Yellow Handle) | В |



NEMA Starters with Solid State Overloads



| Part Number | Description | HP @ 480V |
|---------------|---|-----------|
| AN19BN0A5E005 | SZ 0 AN19 FVNR Starter w/ C440 (1-5A) Electronic OL, 120V Coil | 1/2-3HP |
| AN19DN0A5E020 | SZ 1 AN19 FVNR Starter w/ C440 (4-20A) Electronic OL, 120V Coil | 5-10HP |
| AN19GN0A5E045 | SZ 2 AN19 FVNR Starter w/ C440 (9-45A) Electronic OL, 120V Coil | 10-25HP |
| AN19KN0A5E100 | SZ 3 AN19 FVNR Starter w/ C440 (20-100A) Electronic OL, 120V Coil | 25-50HP |
| AN19NN0A5E140 | SZ 4 AN19 FVNR Starter w/ C440 (28-140A) Electronic OL, 120V Coil | 25-100HP |

Accessories

| Part Number | Description | NEMA Size |
|-------------|--|-----------|
| C320KGS4 | Side Mounted AUX Contact Block 1NO/1NC | 00-2 |
| 9-2875-3 | Replacement Coil - 480V For 00 | 00 |
| 9-2876-3 | Replacement Coil - 480V For 0 | 0 |
| 9-2703-3 | Replacement Coil - 480V For Size 1 | 1 |

Replacement SS Overloads - C441

| Part Number | Description | NEMA Size |
|-------------|-------------------|-----------|
| XTOE005CCS | 1-5 AMP NEMA 0/1 | 0/1 |
| XTOE020CCS | 4-20 AMP NEMA 1 | 1 |
| XTOE045CCS | 9-45 AMP NEMA 2 | 2 |
| XTOE100DCS | 20-100 AMP NEMA 3 | 3 |
| XTOE175GCS | 35-175 AMP NEMA 4 | 4 |

Replacement SS Overloads - C440 - SAME AS IEC!!!

NEMA Starter Solutions - Reliable, accurate, intelligent motor protection

Eaton's Freedom NEMA AN19 starter series combines exceptional Freedom contactor ratings with the C440 electronic overload's superior motor protection features.

AN19 starters can be monitored in real-time over communications, allowing for reduced troubleshooting efforts and downtime.

Benefits

- Ease of use
- Compact design
- Real-time accuracy
- Open and enclosed offerings













Variable Frequency Drives



Input 480V 3 Phase Out 480V 3 Phase

| Part Number | Description | HP | Α |
|------------------|------------------------------------|----|-----|
| DG1-344D3FB-C21C | Eaton DG1 Variable Frequency Drive | 2 | 4.3 |
| DG1-347D6FB-C21C | Eaton DG1 Variable Frequency Drive | 5 | 7.6 |
| DG1-34016FB-C21C | Eaton DG1 Variable Frequency Drive | 10 | 16 |
| DG1-34023FB-C21C | Eaton DG1 Variable Frequency Drive | 15 | 23 |
| DG1-34031FB-C21C | Eaton DG1 Variable Frequency Drive | 20 | 31 |

Kits and Accessories

| Part Number | Description |
|-------------------|---|
| DXG-KEY-RMTKIT | REMOTE KEYPAD MOUNTING KIT |
| DXG-ACC-FR2N12KIT | NEMA 1 Kit for Frame MI-2 |
| DXG-ACC-FR3N12KIT | NEMA 1 Kit for Frame MI-3 |
| DXG-ACC-SOFTWARE | Software Kit: (Software, Cable, Manual) |

PowerXL DG1 General Purpose Variable Frequency Drives

Eaton's PowerXL DG1 general purpose, variable frequency drives are engineered for today's demanding commercial and industrial applications. With an industry leading energy efficiency algorithm, high short-circuit current rating and robust design, the DG1 offers customers increased efficiency, safety, and reliability.

Core Features

- Ease of use: Easy Startup Wizard, PC Tool software, four built-in applications, diagnostics, local/remote button, removable keypad with copy/paste functionality
- Space-savings: Compact size, open Type 12 option, on-board communication, and I/O
- Energy Optimization: Active energy control algorithm, 5% DC choke, input surge protection, EMI/RFI filter built-in
- Certifications: UL, CE, cUL, RoHS, C-Tick







Variable Frequency Drives



GA500 AC Microdrive (Applications: Conveyors, Pumps, Fans) (Click to Learn More)

| | | | | | 240V I | Models | | | | 48 | 80V Mod | els | |
|-----------|-------------------|--------------|------------|--------|--------|--------------|--------|------|--------|--------------|---------|--------|--------|
| Power Out | Power Output (HP) | | ngle-Phase | | | Three-Phase | | | | Three-Phase | | | |
| Normal | Heavy | Catalog Code | Outpu | t Amps | Frame | Catalog Code | Output | Amps | Frame | Catalog Code | Outpu | t Amps | Frame |
| Duty | Duty | catalog coac | ND | HD | Traine | catalog couc | ND | HD | Traine | Catalog Couc | ND | HD | Tranic |
| 1/6 | 1/6 | GA50UB001ABA | 1.2 | 0.8 | 1.1 | GA50U2001ABA | 1.2 | 0.8 | 1.1 | | | | |
| 1/4 | 1/4 | GA50UB002ABA | 1.9 | 1.6 | 1.1 | GA50U2002ABA | 1.9 | 1.6 | 1.1 | | | | |
| 1/2 | 1/2 | | | | | | | | | GA50U4001ABA | 1.2 | 1.2 | 2.1 |
| 3/4 | 1/2 | GA50UB004ABA | 3.5 | 3 | 1.3 | GA50U2004ABA | 3.5 | 3 | 1.2 | | | | |
| 1 | 3/4 | | | | | | | | | GA50U4002ABA | 2.1 | 1.8 | 2.2 |
| 1.5 | 1 | GA50UB006ABA | 6 | 5 | 2.4 | GA50U2006ABA | 6 | 5 | 1.4 | | | | |
| 2 | 2 | | | | | | | | | GA50U4004ABA | 4.1 | 3.4 | 2.4 |
| 3 | 2 | GA50UB010ABA | 9.6 | 8 | 2.5 | GA50U2010ABA | 9.6 | 8 | 2.3 | | | | |
| 3 | 3 | GA50UB012ABA | 12.2 | 11 | 3.2 | | | | | GA50U4005ABA | 5.4 | 4.8 | 2.5 |
| 4 | 3 | | | | | GA50U2012ABA | 12.2 | 11 | 2.4 | GA50U4007ABA | 7.1 | 5.6 | 2.5 |
| 5 | 4 | | | | | | | | | GA50U4009ABA | 8.9 | 7.3 | 2.5 |
| N/A | 5 | GA50UB018ABA | N/A | 17.6 | 4 | | | | | | | | |
| 7.5 | 5 | | | | | GA50U2021ABA | 21 | 17 | 3.1 | GA50U4012ABA | 11.9 | 9.2 | 3.1 |
| 10 | 7.5 | | | | | GA50U2030ABA | 30 | 25 | 5 | | | | |
| 10 | 10 | | | | | | | | | GA50U4018ABA | 17.5 | 14.8 | 5 |
| 15 | 10 | | | | | GA50U2042ABA | 42 | 33 | 5 | GA50U4023ABA | 23.4 | 18 | 5 |
| 20 | 20 | | | | | GA50U2070ABA | 70 | 60 | 7 | GA50U4031ABA | 31 | 24 | 6 |
| 25 | 20 | | | | | GA50U2082ABA | 82 | 75 | 7 | GA50U4038ABA | 38 | 31 | 6 |
| 30 | 25 | | | | | | | | | GA50U4044ABA | 44 | 39 | 8 |
| 40 | 30 | | | | | | | | | GA50U4060ABA | 60 | 45 | 8 |

| Popular Option | Popular Options (More Found in Catalog) | | | | | |
|--|---|---------------|-------------------------|----------------------|-------------------------------------|--|
| Communication Cards IP20/UL Type 1 Adapter Kits (For C | | | dapter Kits (For GA50U) | Keypads and Remote N | lounting | |
| Part Number | Description | Part Number | Description | Part Number | Description | |
| SI-N3 | DeviceNet™ | ZBAA-GA50V2-4 | 4001ABA & 4002ABA | JVOP-KPLCA04MEB | Standard Keypad | |
| SI-ES3 | EtherCAT® | ZBAA-GA50V2-5 | 4004ABA | JVOP-KPLCC04MBB | Keypad with Bluetooth | |
| SI-EN3 | Ethernet/IP Card | ZBAA-GA50V2-2 | 4005ABA thru 4009ABA | ZPBA-GA500 | Remote Mount Kit- Standard Keypad | |
| SI-EN3/D | Ethernet/IP dual port | ZBAA-GA50V3-2 | 4012ABA | 900-239-230-001 | Outdoor Type 12/3/3R Keypad Mount | |
| SI-EM3 | Modbus/TCP | ZBAA-GA50V5-1 | 4018ABA & 4023ABA | UWR0051 | Remote Mount Cable-1M | |
| SI-EP3 | PROFINET® | ZBAA-GA50V6-1 | 4031ABA & 4038ABA | UWR0052 | Remote Mount Cable-3M | |
| JOHB-GA50 | Option Card Carrier | ZBAA-GA50V8-1 | 4044ABA & 4060ABA | UWR01258 | USB Cable for PC to Drive Comm - 3M | |

Questions to consider...

What is the application?

Constant Torque Applications (Conveyors, loaders, etc.) require a suitable drive (GA500 OR GA800). Variable torque loads (fans and centrifugal pumps) can be controlled with either CT Drives or specialized Fan/Pump Drives (P1000 on opposite side).

What are your Full Load Amps?

Check motor nameplate to make sure voltages and full load amps (FLA) are known. Pick next larger size drive as compared to FLA.

How/Where is the drive being mounted?

There are a lot of options to mount inside and enclosure, or as a stand-alone controller. NEMA 1 Kits are available, as well as configured drives in NEMA 1, NEMA 12 or NEMA 3R Enclosures.

How is the Drive being communicated with?

If using a PLC to start and stop the drive, make sure to choose the proper communication card (i.e., Ethernet IP).



V1000-4X AC Micro-Drive in 4X Enclosure

Ranges:

1/8 to 25HP 230V, 460V.
Applications:
Food processing, wash-down areas.

Serial and ethernet comms.

Notes:

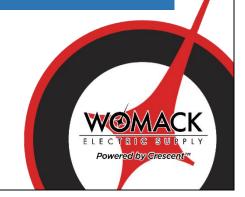
Current-Wet or dusty environments. Off the shelf as complete.

No configuration needed.

(Click to Learn More)

Free Technical Support! 1-800-Yaskawa

Free Training! Check with your local Sales Associate



Variable Frequency Drives



GA800 AC Industrial Drive (Applications: Conveyors, Pumps, Fans, Closed Loop Systems, or Any Application!) (Click to Learn More)

| Power Out | Power Output (HP) 240V Models | | | s | | | 480V Mode | ls | |
|---------------|-------------------------------|--------------|----------|------|-------|--------------|-----------|------|-------|
| Name of Deets | Haarin Dubi | Catalan Cada | Output / | Amps | F | Catalan Cada | Output | Amps | F |
| Normal Duty | Heavy Duty | Catalog Code | ND | HD | Frame | Catalog Code | ND | HD | Frame |
| 1 | 3/4 | GA80U2004ABM | 4.2 | 3.5 | 1 | GA80U4002ABM | 2.1 | 1.8 | 1 |
| 1.5 | 1 | GA80U2006ABM | 6 | 5 | 1 | | | | |
| 2 | 1.5 | GA80U2008ABM | 8 | 6.9 | 1 | GA80U4004ABM | 4.1 | 3.4 | 1 |
| 3 | 2 | GA80U2010ABM | 9.6 | 8 | 1 | GA80U4005ABM | 5.4 | 4.8 | 1 |
| 4 | 3 | GA80U2012ABM | 12.2 | 11 | 1 | GA80U4007ABM | 7.1 | 6.5 | 1.5 |
| 5 | 4 | GA80U2018ABM | 17.5 | 14 | 1.5 | GA80U4009ABM | 8.9 | 7.2 | 1.5 |
| 7.5 | 5 | GA80U2021ABM | 21 | 17.5 | 1.5 | GA80U4012ABM | 11.9 | 9.2 | 1.5 |
| 10 | 7.5 | GA80U2030ABM | 30 | 25 | 1.5 | GA80U4018ABM | 17.5 | 14.8 | 1.5 |
| 15 | 10 | GA80U2042ABM | 42 | 33 | 1.5 | GA80U4023ABM | 23.4 | 18 | 1.5 |
| 20 | 15 | GA80U2056ABM | 56 | 47 | 2 | GA80U4031ABM | 31 | 24 | 2 |
| 25 | 20 | GA80U2070ABM | 70 | 60 | 3 | GA80U4038ABM | 38 | 31 | 2 |
| 30 | 25 | GA80U2082ABM | 82 | 75 | 3 | GA80U4044ABM | 44 | 39 | 3 |
| 40 | 30 | GA80U2110ABM | 110 | 88 | 4 | GA80U4060ABM | 59.6 | 45 | 3.5 |
| 50 | 40 | GA80U2138ABM | 138 | 115 | 6 | GA80U4075ABM | 74.9 | 60 | 4 |
| 60 | 50 | GA80U2169ABM | 169 | 145 | 7 | GA80U4089ABM | 89.2 | 75 | 6 |
| 75 | 60 | GA80U2211ABM | 211 | 180 | 7 | GA80U4103ABM | 103 | 91 | 6 |
| 100 | 75 | GA80U2257ABM | 257 | 215 | 9 | GA80U4140ABM | 140 | 112 | 7 |
| 125 | 100 | GA80U2313ABM | 313 | 283 | 9 | GA80U4168ABM | 168 | 150 | 7 |
| 150 | 125 | GA80U2360ABM | 360 | 346 | 10 | GA80U4208ABM | 208 | 180 | 9 |
| 150 | 150 | GA80U2415ABM | 415 | 415 | 10 | | | | |
| 200 | 150 | | | | | GA80U4250ABM | 250 | 216 | 9 |
| 250 | 200 | | | | | GA80U4302ABM | 302 | 260 | 9 |
| 300 | 250 | | | | | GA80U4371ABM | 371 | 304 | 10 |
| 350 | 300 | | | | | GA80U4414ABM | 414 | 371 | 10 |
| 400 | 350 | | | | | GA80U4477ABM | 477 | 414 | 11 |
| 450 | 400 | | | | | GA80U4568ABM | 568 | 477 | 11 |
| 500 | 450 | | | | | GA80U4605ABM | 675 | 605 | 11 |
| 600 | 500 | | | | | GA80U4720ABM | 720 | 605 | 11 |

| Popular Option | Popular Options (More Found in Catalog) | | | | | | |
|--|---|-----------------|--------------------------|-----------------|----------------------------|---|--|
| Communication Cards NEMA 1 Type Adapters | | apters | Keypads and Remo | ote Mounting | Custom Configurations | | |
| Part Number | Description | Part Number | Description | Part Number | Description | Description | |
| SI-EN3 | EtherNet/IP | 900-192-121-001 | 240V - 42A / 480V - 23A | JVOP-KPLCC04MBB | LCD KP with Bluetooth | • Installed in N1, 3R, or 12 Enclosure. | |
| SI-ES3 | EtherCAT | 900-192-121-002 | 240V - 56A / 480V 31-38A | 900-192-933-001 | Type 1 KP Panel Mount Kit | Circuit Breaker or Disconnect. | |
| SI-EP3 | Profinet | | | UWR0051 | KP Remote Mount Cable - 1M | Additional Line Reactors. | |
| SI-P3 | Profibus-DP | | | | | Cover Control. | |
| SI-N3 | DeviceNet | | | | | Flange Mounted Heat Sink. | |

Choose YASKAWA and Get Connected!

Whether you prefer discrete / analog control or high-speed communication, GA800 covers all your needs for control interface and provides robust connections on all major networks.



Additional YASKAWA Drive Families

FP605 Industrial Fan and Pump Drive



RANGES:

• IP20/UL Type 1 - 240 VAC: 3 to 150 HP - 480 VAC: 3 to 600 HP

• IP55/UL Type 12 - 240 VAC: 3 to 40 HP - 480 VAC: 3 to 100 HP

APPLICATIONS: Delivers a highly efficient and sustainable solution for all your pump and fan motor control needs.

(Click Here to Learn More)

U1000 Matrix Drive-IEEE 519 Compliant for Clean Power



RANGES: 1 - 800HP 230V, 460V
APPLICATIONS: Water/Wastewater, IEEE 519
Specifications where Clean-Power is a requirement. Used when 75% or greater regeneration capacity is needed. Meets specifications for 18-Pulse Applications.
ACCESSORIES AVAILABLE: Serial & Ethernet comms, NEMA 1 end cap (needed for 150HP & higher).

(Click Here to Learn More)



Control Relays



| Part Number | Description |
|------------------|---|
| EASY-E4-UC-12RC1 | 24V DC/AC 4 IN, 4 Analog Out, 4 Relay Out |
| EASY-E4-AC-12RC1 | 120V AC, 8 Digital In, 4 Relay Out |
| EASY-E4-UC-8RE1 | 24V DC Expander Module8IO |
| EASY-E4-UC-16RE1 | 24V DC Expander Module 16 IO |
| EASY-E4-AC-8RE1 | 120V AC Expander Module 8 IO |
| EASY-BOX-E4-UC1 | Starter Kit (Base Unit Plus Software) |
| EASYSOFT-SWLIC | Software |

TRL Series Multi-Function Timing Relays

Features time adjustment from 50 milliseconds up to 100 hours. Outgoing change-over contact rated 8 amps/250V. Flexible voltage supply and control input: 12V - 240Vac/dc for TRL07 and 24V - 240Vac/dc for TRL04.

| Function | Part # TRL04 | Part # TRL07 |
|------------------------------------|--------------|--------------|
| ON DELAY (Voltage Controlled) | X | X |
| OFF Delay (w/Control Input) | X | X |
| Single Shot Leading Edge | | X |
| Single Shot Trailing Edge | | X |
| ON DELAY (w/Control Input) | | X |
| Single Shot Leading Edge (Voltage) | X | X |
| Symmetric Pulse Generator | X | X |



IDEC Ice Cube Relays

| Part Number | Description | Base |
|--------------|-----------------------------|--------|
| RH1BUL24VDC | Relay, 1P, 10A, 24VDC Coil | SH1B05 |
| RH1BUL24VAC | Relay, 1P, 10A, 24VAC Coil | SH1B05 |
| RH1BUL120VAC | Relay, 1P, 10A, 120VAC Coil | SH1B05 |
| RH2BUL24VDC | Relay, 2P, 10A, 24VDC Coil | SH2B05 |
| RH2BUL24VAC | Relay, 2P, 10A, 24ADC Coil | SH2B05 |
| RH2BUL120VAC | Relay, 2P, 10A, 120VAC Coil | SH2B05 |
| RH3BUL120VAC | Relay, 3P, 10A, 120VAC Coil | SH3B05 |
| RH3BUL24VDC | Relay, 3P, 10A, 24VDC Coil | SH3B05 |
| RH4BUL24VDC | Relay, 4P, 10A, 24VDC Coil | SH4B05 |
| RH4BUL120VAC | Relay, 4P, 10A, 120VAC Coil | SH4B05 |



Think Automation and beyond...





WOMACK ELECTRIC SURPLY Powered by Grescent*

WAGO DIN Rail Relays

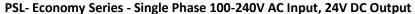
| WAGO DIN Nail Nelays | |
|----------------------|--|
| Part Number | Description |
| 788-303 | Relay, 1Pole, 16A, Red Ind., 15MM, Gray, 12 VDC Coil |
| 788-304 | Relay, 1Pole, 16A, Red Ind., 15MM, Gray, 24 VDC Coil |
| 788-311 | Relay, 2Pole, 16A, Red Ind., 15MM, Gray, 12 VDC Coil |
| 788-312 | Relay, 2Pole, 16A, Red Ind., 15MM, Gray, 24 VDC Coil |
| 788-512 | Relay, 2Pole, 16A, Red Ind., 15MM, Gray, 24 VAC Coil |
| 857-304 | Relay, 1Pole, Slim 6MM Wide, 6A, Gray, 24V DC Coil |
| 857-357 | Relay, 1Pole, Slim 6MM Wide, 6A, Gray, 120V AC Coil |

Voltage Management

Power Supplies

PSG Series - Single Phase 85-264V AC Input, 24V DC Output

| Part Number | Description |
|-------------|------------------|
| PSG60E24RM | 2.5A Output, 60W |
| PSG120E24RM | 5A Output, 120W |
| PSG240E24RM | 10A Output, 240W |
| PSG480E24RM | 20A Output, 480W |



| Part Number | Description |
|-------------|-------------------|
| PSL30E24RP | 1.25A Output, 30W |
| PSL60E24RP | 2.5A Output 60W |

PSG Series - Three Phase 400-500V AC Input, 24V DC Output

| F3G Selles - Illiee | rod Series - Tillee Filase 400-500 V Ac Iliput, 24 V DC Output | | | | |
|---------------------|--|--|--|--|--|
| Part Number | Description | | | | |
| PSG60F24RM | 2.5A Output | | | | |
| PSG120F24RM | 5A Output | | | | |
| PSG240F24RM | 10A Output | | | | |
| PSG480F24RM | 20A Output | | | | |
| PSG960F24RM | 40A Output | | | | |



| Three Thuse 400 3000 Ac input, 240 Be Output | |
|--|-------------|
| Part Number | Description |
| 787-738 | 6.5A Output |
| 787-1640 | 10A Output |
| 787-1642 | 20A Output |
| 787-1644 | 40A Output |



FAT•N



Wago "Cage Clamp" Power Supplies Single Phase 90-264V AC Input, 24V DC Output

| Part Number | Description |
|-------------|-------------|
| 787-712 | 2.5A Output |
| 787-722 | 5A Output |
| 787-732 | 10A Output |
| 787-734 | 20A Output |
| 787-736 | 40A Output |

Control Transformers

Primary 240 X 480VAC - Secondary 120VAC

| Part Number | VA | Description |
|-------------|-----|--|
| C0050E2AFB | 50 | Transformer with Primary and Secondary Fuse Blocks |
| C0100E2AFB | 100 | Transformer with Primary and Secondary Fuse Blocks |
| C0250E2AFB | 250 | Transformer with Primary and Secondary Fuse Blocks |
| C0350E2AFB | 350 | Transformer with Primary and Secondary Fuse Blocks |
| C0500E2AFB | 500 | Transformer with Primary and Secondary Fuse Blocks |

Primary 240/480VAC - Secondary 24VAC

| Part Number | VA | Description |
|-------------|-----|--|
| C0075E2BFB | 75 | Transformer with Primary and Secondary Fuse Blocks |
| C0100E2BFB | 100 | Transformer with Primary and Secondary Fuse Blocks |





Terminal Blocks – Cage Clamp



Cage Clamp (Tool Type) Terminal Blocks 22-12 AWG, 600V, 20A

| Part Number | Description |
|-------------|---|
| 2002-1201 | 2-Conductor, 5.2MM, Gray |
| 2002-1207 | 2-Conductor, Ground, 5.2MM Green/Yellow |
| 2002-1301 | 3-Conductor, 5.2MM, Gray |
| 2002-1401 | 4-Conductor, 5.2MM, Gray |
| 2002-1407 | 4-Conductor, Ground, 5.2MM Green/Yellow |
| 2002-2201 | Double-deck, 5.2MM, Gray |
| 2002-3201 | Triple-deck, 5.2MM, Gray |
| 2002-3227 | Triple-deck, 5.2MM w/Ground Cond., Gray |
| 2004-1401 | 4-Conductor, 6.2MM, Gray |
| 2004-1407 | 4-Conductor, 6.2MM, Green/Yellow |
| 2006-1201 | 2-Conductor, 7.5MM, Gray |
| 2006-1301 | 3-Conductor, 7.5MM, Gray |
| 2006-1307 | 3-Conductor, 7.5MM, Green/Yellow |
| 2010-1301 | 3-Conductor, 10MM, Gray |
| 270-570 | 4-Conductor Sensor Block, 2.5MM ² , Gray |



| Part Numbers | Description |
|--------------|---|
| 2202-1201 | 2-Conductor, 5.2MM, Gray |
| 2202-1207 | 2-Conductor, Ground, 5.2MM Green/Yellow |
| 2202-1301 | 3-Conductor, 5.2MM, Gray |
| 2202-1401 | 4-Conductor, 5.2MM, Gray |
| 2210-1201 | 2-Conductor, 10MM, Gray |

Fused Terminal Blocks- Cage Clamp

| Part Numbers | Description |
|--------------------|---|
| 282-120 | 2-Conductor Fuse block, Gray, for 1/4 x 1 Fuse, W/O Ind |
| 2002-1611 | 2-Conductor Fuse block, Gray, for 5X20MM Fuse, W/O Ind |
| 2002-2611/1000-541 | Double Deck Fuse block, Gray, for 5X20MM Fuse, W/O Ind |

Unmanaged Ethernet Switches by Wago

| Part Number | Description |
|-----------------|-------------------|
| 852-111/000-001 | 5 Port ECO Switch |
| 852-112/000-001 | 8 Port ECO Switch |

Unmanaged industrial ethernet switches have ethernet ports for easily setting up small- to medium-sized networks. Its slim design paired with a DIN-rail adapter simplifies installation in the control cabinet and provides high vibration and shock resistance.



As the world leader in spring pressure connection technology, WAGO offers the perfect connection system to meet your specific needs.

Convenience Outlets - DIN RAIL

510-17643 15A Duplex Receptacle, DIN Rail Mountable

511-97944 15A Duplex GFI, DIN Rail Mountable









Terminal Block – Cage Clamp Accessories and Printing Options



End/Separator Plates, Anchors, and DIN RAIL

| | Boossistics |
|--------------|--|
| Part Numbers | Description |
| 2002-1291 | Plate for 2002-12xx series; 0.8 MM wide; gray |
| 2002-1292 | Plate for 2002-12xx series; 0.8 MM wide; orange |
| 2002-1293 | Plate for 2002-12xx series; 2 MM wide; gray |
| 2002-1392 | Plate for 2002-13xx series; 0.8 MM wide; orange |
| 2002-1393 | Plate for 2002-13xx series; 2 MM wide; gray |
| 2002-1492 | Plate for 2002-14xx series; 0.8 MM wide; orange |
| 2002-1493 | Plate for 2002-14xx series; 2.0 MM wide; gray |
| 2002-1494 | Plate for 2002-14xx series; 2.0 MM wide; orange |
| 2002-2291 | Plate for 2002-22xx series; 0.8 MM wide; gray |
| 2002-2292 | Plate for 2002-22xx series; 0.8 MM wide; orange |
| 2002-3291 | Plate for 2002-32xx series; 0.8 MM wide; gray |
| 2002-3292 | Plate for 2002-32xx series; 0.8 MM wide; orange |
| 2002-4192 | Plate for 2002-41xx series; 1.0 MM wide; orange |
| 2002-991 | Plate for 2002 series fuse blocks; 2.0 MM wide; gray |
| 2002-992 | Plate for 2002 series fuse blocks; 2.0 MM wide; orange |
| 249-116 | Screwless end stop; 6MM wide; for 35MM DIN-rail, Gray |
| 249-117 | Screwless end stop; 10MM wide; for 35MM DIN-rail, Gray |
| XBANS3575P | Eaton Din Rail- Steel Slotted 2M |

Terminal Block Label Printing, Wire Marking, and Tools

| Part Numbers | Description |
|--------------|--|
| 258-5000 | Thermal transfer printer; Smart Printer |
| 2009-110 | Marking strips on reel; snap-on type; white, non-stretch |
| 2009-115 | Marking strips on reel; snap-on type; white, stretch |
| 258-5005 | Thermal transfer ink ribbon for Smart Printer |
| 258-5006 | Replacement Roller |
| 793-5502 | WMB Marking Card, White; 1-10 |
| 793-5503 | WMB Marking Card, White; 11-20 |
| 793-5504 | WMB Marking Card, White; 21-30 |
| 210-719 | Operating tool; Blade: 2.5 x 0.4 mm; |

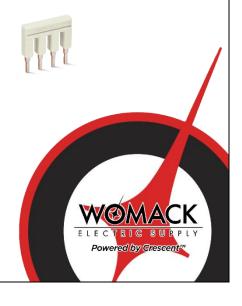






Jumpers (Insulated)

| Jumpers (insulated) | | |
|---------------------|--------------------|--|
| Part Numbers | Description | |
| 2002 Series | | |
| 2002-402 | 2-way; light-gray | |
| 2002-403 | 3-way; light-gray | |
| 2002-404 | 4-way; light-gray | |
| 2002-405 | 5-way; light-gray | |
| 2002-406 | 6-way; light-gray | |
| 2002-407 | 7-way; light-gray | |
| 2002-408 | 8-way; light-gray | |
| 2002-410 | 10-way; light-gray | |
| | | |
| 2004 Series | | |
| 2004-402 | 2-way; light-gray | |
| 2004-403 | 3-way; light-gray | |
| 2004-404 | 4-way; light-gray | |
| 2004-405 | 5-way; light-gray | |
| 2004-406 | 6-way; light-gray | |
| 2004-407 | 7-way; light-gray | |
| 2004-410 | 10-way; light-gray | |
| | | |
| 2006 Series | | |
| 2006-402 | 2-way; light-gray | |
| 2006-403 | 3-way; light-gray | |
| 2006-404 | 4-way; light-gray | |
| 2006-405 | 5-way; light-gray | |
| | | |



Terminal Blocks – Screw Connection / Distribution Blocks



6.2MM, 10G, Screw Connection, Through Feed, Single Level

| Part Number | Description |
|-------------|----------------------------|
| XBUT4 | Grey |
| XBUT4BU | Blue |
| XBUT4OR | Orange |
| XBUT4BK | Black |
| XBUT4PE | Green Ground Block |
| XBUT4FBE | Fuse Block for 5X20MM Fuse |

6.2MM, 10G, Spring Cage, Through Feed, Single Level

| Part Number | Description |
|-------------|-----------------|
| XBPT4 | Grey |
| XBATPT4 | Partition Plate |

6.2MM, 10G, Screw Connection, Through Feed, Double Level

| Part Number | Description | |
|-------------|---------------------------|--|
| XBUTT4 | Grey Double Level | |
| XBUTT4PE | Ground Block Double Level | |

Accessories

| 1.0000001.00 | |
|--------------|---------------------------|
| Part Number | Description |
| XBACUT10 | End Cover |
| XBATUT10 | Partition Plate |
| XBAFBS26 | Plug In Bridge - 2 Pole |
| XBAFBS36 | Plug In Bridge - 3 Pole |
| XBAFBS56 | Plug In Bridge - 5 Pole |
| XBAFBS106 | Plug In Bridge - 10 Pole |
| XBATSPAI4 | Test Adapter |
| XBMZB6 | Blank Marker Strip |
| XBAES35C | End Stop, One Screw Mount |
| XBAES35N | End Stop, Snap On |
| XBANS3575P | 35MM DIN Rail, Slotted 1M |

XBUT Series IEC Terminal Blocks Screw Connection

Key Features:

- Maintenance-free connections
- Global acceptance
- Multi-conductor connections
- Flexible plug-in bridge system
- · Large surface area for marking
- Standardized testing system
- Metal parts made of tin-plated copper

This Control Quick Selection Guide shows commonly used, in-stock items. Additional configurations for all items shown are available.

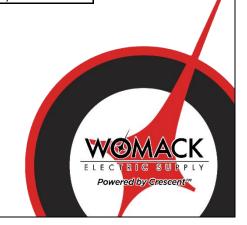


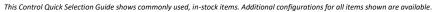
Power Distribution Blocks

| Part Number | Description |
|-------------|--|
| UD80A | 80A 1 Pole Distribution Block – 1in (#4Ga), 6 Out (#4 to #16) |
| UDJ160A | 160A 1 Pole Distribution Block – 1 in (3/0), 6 Out (#4 to #14) |
| UD250A | 250A 1 Pole Distribution Block – 1in (250MCM), 11 Out (#1) |
| UD-400112CU | 400A 1 Pole Distribution Block – 1in (400MCM), 11 Out (#6) |

nVent ERIFLEX Single Pole Distribution Block Features

- Tinned CU or AL block allows for CU/AL direct connections, or using ferrule
- Design allows for visual inspection of conductor and confirmation of connection
- Modular snap-together blocks for building multi-pole power blocks
- Easily clips onto DIN rail or mounts to panel with screws
- 95% fill ratio





Molded Case Industrial Circuit Breakers



Power Defense Breakers

| Part Number | Description |
|---------------------|-----------------------------|
| PDG-1-3-C-0015-TFFJ | 15A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0025-TFFJ | 20A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0020-TFFJ | 25A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0030-TFFJ | 30A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0050-TFFJ | 50A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0060-TFFJ | 60A 600V 3P 18KAIC Breaker |
| PDG-1-3-C-0100-TFFJ | 100A 600V 3P 18KAIC Breaker |

Accessories

| Part Number | Description |
|---------------|---------------------------------------|
| PDG1X3TA1256W | Multi-wire Terminal 6 Wire |
| PDG1XHMDE | Handle and Mechanism (Shaft Separate) |
| PDG12XHMS307 | 12' Shaft |

Power Defense







A globally rated platform from Eaton.

The Power Defense Molded Case Circuit Breaker portfolio is globally rated in a small footprint for easy adaptability no matter the application or project requirement. A circuit breaker with communicating electronic trip units and the ability to generate the data to help you optimize your facilities' performance, and to help keep your employees, customers, and end-users safe by reducing the risk of arc flash events.

Explore the features and functionalities of Eaton's globally rated molded case circuit breaker platform.

You will be able to:

• Increase equipment uptime

GLOBAL

- Reduce the effort and costs involved with servicing or replacing equipment
- Predict potential points of failure with advances in trip unit
- View data directly from the breaker that helps you determine breaker health
- Improve system reliability
- Best use data available to you to reduce maintenance cost and increase safety





Rotary Disconnects



Non-Fused Switches

| Part Number | Description |
|-------------|---|
| R5A3016U | 16 AMP 3P Non Fused Disc Switch UL 508 |
| R5A3030U | 30 AMP 3P Non Fused Disc Switch UL 508 |
| R5A3040U | 40 AMP 3P Non Fused Disc Switch UL 508 |
| R5A3080U | 80 AMP 3P Non Fused Disc Switch UL 508 |
| R9C3100U | 100 AMP 3P Non Fused Disc Switch UL 508 |

Handles

| Part Number | Description |
|-------------|-------------------|
| SHB00N12 | Black Door Handle |
| SHR00N12 | Red Door Handle |

Shafts

| Part Number | Description |
|-------------|-----------------|
| SF150SH5X5 | 5.9 Inch Shaft |
| SF320SH5X5 | 12.6 Inch Shaft |

Accessories

| Part Number | Description |
|-------------|------------------------|
| TS3R5A | 3 Pole Terminal Shroud |
| AC1NONC | 1 NO/ 1 NC Aux Contact |

Fused Switches

| Part Number | Description |
|-------------|--|
| R9I3030FCC | Fusible Disconnect Switch 30A Class CC |
| R9J3060FJ | Fusible Disconnect Switch 60A Class J |
| R9K3100FJ | Fusible Disconnect Switch 100A Class J |
| R9L3200FJ | Fusible Disconnect Switch 200A Class J |

Handles

| Part Number | Description |
|-------------|--|
| SHB00N12 | Black Door Handle for 30 and 60A, N3R/12 |
| SHR00N12 | Red Door Handle for 30 and 60A, N3R/12 |
| PHB2N12F | Black handle for 100A and 200A Switches N1/3R/12 |
| PHR2N12F | Red Handle for 100A and 200A Switches N1/3R/12 |

Shafts

| Part Number | Description |
|--------------|---------------------------|
| SF200SH5X5H | 7.9 Inch Shaft 5mmx5mm |
| SF200PH10X10 | 7.9 Inch Shaft 10mmx10mm |
| SF320PH10X10 | 12.6 Inch Shaft 10mmx10mm |

Accessories

| 7.0000001.00 | | |
|--------------|-------------|------------------|
| | Part Number | Description |
| | AC1NOR9 | 1 NO Aux Contact |



Eaton's full-range of rotary disconnects offers a compact, economical, and high- quality choice for switching and isolation spanning a range from 16A - 1200A.

The R5 Series of switches are UL 508 listed devices, suitable for use as motor disconnects. The R9 offering consists of UL 98 listed fusible and non-fusible products that may be used for service entrance, or anywhere a local means of disconnect is needed or required.

R5 Product Description:

R5 Series (UL 508 listed) products are manually operated modular switches. Load break switching and isolation provide safety solutions for any low voltage circuit, particularly for machine and control circuits. The R5 Series products are manual motor controllers suitable as motor disconnect.

R9 Product Description:

R9 Series (UL98 listed) Fusible 30–800A manual operated multi-pole fusible disconnect switches use double break contacts per pole that ensure complete isolation of the fuse when the switch is in the OFF position. When installed with fuses, they provide protection for low voltage electrical installations against short circuit and overload.











Circuit Protection

FAT-N

UL 489 Mini DIN Breakers C-Curve

| Amperage | 1 pole | 2 pole | 3 Pole |
|----------|---------------|---------------|---------------|
| 0.5 | FAZ-C0.5/1-NA | FAZ-C0.5/2-NA | FAZ-C0.5/3-NA |
| 1 | FAZ-C1/1-NA | FAZ-C1/2-NA | FAZ-C1/3-NA |
| 2 | FAZ-C2/1-NA | FAZ-C2/2-NA | FAZ-C2/3-NA |
| 3 | FAZ-C3/1-NA | FAZ-C3/2-NA | FAZ-C3/3-NA |
| 4 | FAZ-C4/1-NA | FAZ-C4/2-NA | FAZ-C4/3-NA |
| 5 | FAZ-C5/1-NA | FAZ-C5/2-NA | FAZ-C5/3-NA |
| 6 | FAZ-C6/1-NA | FAZ-C6/2-NA | FAZ-C6/3-NA |
| 7 | FAZ-C7/1-NA | FAZ-C7/2-NA | FAZ-C7/3-NA |
| 8 | FAZ-C8/1-NA | FAZ-C8/2-NA | FAZ-C8/3-NA |
| 10 | FAZ-C10/1-NA | FAZ-C10/2-NA | FAZ-C10/3-NA |
| 13 | FAZ-C13/1-NA | FAZ-C13/2-NA | FAZ-C13/3-NA |
| 15 | FAZ-C15/1-NA | FAZ-C15/2-NA | FAZ-C15/3-NA |
| 16 | FAZ-C16/1-NA | FAZ-C16/2-NA | FAZ-C16/3-NA |
| 20 | FAZ-C20/1-NA | FAZ-C20/2-NA | FAZ-C20/3-NA |
| 25 | FAZ-C25/1-NA | FAZ-C25/2-NA | FAZ-C25/3-NA |
| 30 | FAZ-C30/1-NA | FAZ-C30/2-NA | FAZ-C30/3-NA |
| 32 | FAZ-C32/1-NA | FAZ-C32/2-NA | FAZ-C32/3-NA |
| 40 | FAZ-C40/1-NA | FAZ-C40/2-NA | FAZ-C40/3-NA |
| 50 | FAZ-C50/1-NA | FAZ-C50/2-NA | FAZ-C50/3-NA |
| 63 | FAZ-C63/1-NA | FAZ-C63/2-NA | FAZ-C63/3-NA |

Optimum product quality, tested reliability, and safety stand for best protection of personnel, installations, and plant.

Eaton's FAZ-NA DIN rail mountable circuit breaker is designed for use in branch service applications.

The Curve type (B, C, D, etc...) designates the instantaneous trip current range, or the amount of

• B Curve: Trips above 3 Times In Up To 5 Times In • C Curve: Trips above 5 Times In Up To 10 Times In

• D Curve: Trips above 10 Times In Up To 20 Times In

An "SP" may be added to the end of the part number for single pack













Typical applications Feeder and branch circuit protection

- HACR equipment (heating, air conditioning, refrigeration) (internal/external)
- Convenience receptacle circuits (internal/external)
- Load circuits leaving the equipment (external)
- Motor control circuits
- Power conditioners
- Power supplies
- PLC I/O points
- Computers
- Relays
- UPS



Control Circuit Fuses and Blocks



| Glass Fuses 1/4 X 1-1/4, 250V Fast Acting For Use With Control Transformers, Terminal Blocks) | | | | |
|---|-------------|---------|----------|----------|
| AGC-1/8-R | AGC-1-R | AGC-3-R | AGC-8-R | AGC-25-R |
| AGC-1/2-R | AGC-1-1/2R | AGC-4-R | AGC-10-R | AGC-30-R |
| AGC-6/10-R | AGC-2-R | AGC-5-R | AGC-15-R | |
| AGC-3/4-R | AGC-2-1/-2R | AGC-7-R | AGC-20-R | |

| Glass Fuses 5x20mm, 250V Fast Acting (For Use With Certain Terminal Blocks) | | | | |
|---|---------|---------|----------|----------|
| GMA-500-R | GMA-2-R | GMA-4-R | GMA-7-R | GMA-15-R |
| GMA-1-R | GMA-3-R | GMA-5-R | GMA-10-R | |

| RK5 Fuses, 600V Time Delay | | | | |
|---|---------|---------|---------|---------|
| (For Use In Class R Rotary Disconnects And Fuse Blocks) | | | | |
| FRSR-2-1/2 | FRSR-5 | FRSR-12 | FRSR-25 | FRSR-40 |
| FRSR-3 | FRSR-6 | FRSR-15 | FRSR-30 | FRSR-50 |
| FRSR-4 | FRSR-10 | FRSR-20 | FRSR-35 | FRSR-60 |

| Class CC 600V Time Delay (For Use With CC Fuse Holders) | | | | |
|--|---------|---------|----------|----------|
| LP-CC5 | LP-CC-2 | LP-CC-6 | LP-CC-10 | LP-CC-25 |
| LP-CC-1 | LP-CC-3 | LP-CC-7 | LP-CC-12 | LP-CC-30 |
| LP-CC-1.25 | LP-CC-4 | LP-CC-8 | LP-CC-15 | |
| LP-CC-1.4 | LP-CC-5 | LP-CC-9 | LP-CC-20 | |

| Class CC 600V Fast Acting (For Use With CC Fuse Holders And ICT) | | | | |
|--|---------|----------|----------|----------|
| KRK-R5 | KRK-R-3 | KRK-R-6 | KRK-R-15 | KRK-R-30 |
| KRK-R-1 | KRK-R-5 | KRK-R-10 | KRK-R-20 | |

| Class J 600V Time Delay | | | | |
|-------------------------|--------|--------|--------|---------|
| JDL-2 | JDL-15 | JDL-30 | JDL-45 | JDL-80 |
| JDL-6 | JDL-20 | JDL-35 | JDL-50 | JDL-100 |
| JDL-10 | JDL-25 | JDL-40 | JDL-60 | JDL-125 |

| Fuse Blocks | |
|-------------|------------------------------------|
| RM60030-3CR | 30A, 600V 3P, Class R, Fuse Block |
| RM60060-3CR | 60A, 600V, 3P, Class R, Fuse Block |
| JM60030-3CR | 30A, 600V 3P, Class J, Fuse Block |
| JM60060-3CR | 60A, 600V, 3P, Class J, Fuse Block |

| Bussman Class CC Fuse Holders | | |
|-------------------------------|--|--|
| CHCC1DIU | 1 Pole Class CC DIN Rail Fuse Holder w/Indicator | |
| CHCC2DIU | 2 Pole Class CC DIN Rail Fuse Holder w/Indicator | |
| CHCC3DIU | 3 Pole Class CC DIN Rail Fuse Holder w/Indicator | |

Bussmann series fuses play a major role in industrial or commercial facilities by providing reliable, maximum protection to power systems via electrical and electronic fuses, fuse holders, and power distribution blocks.







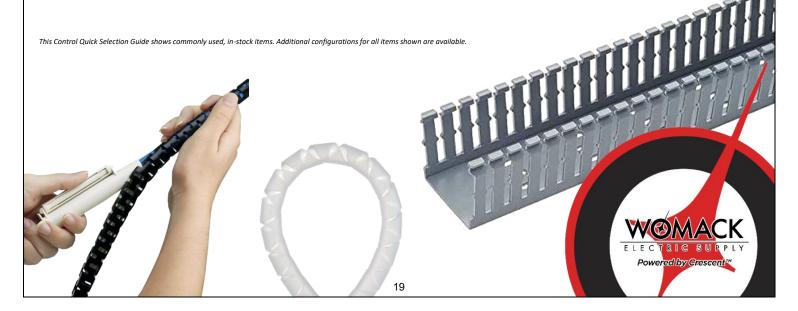
Wiring Duct & Accessories



| Part Number | Description |
|-------------|---|
| PW50F-T20 | Pan-Wrap Split Harness Wrap 1/2", Black |
| PW75F-C20 | Pan-Wrap Split Harness Wrap 3/4", Black |
| T38F-C | Spiral Wrap, 3/8", Natural |
| T50F-C | Spiral Wrap, 1/2", Natural |
| F1X1.5LG6 | 1" x 1.5" Slotted Wiring Duct, Light Gray |
| F1X2LG6 | 1" x 2" Slotted Wiring Duct, Light Gray |
| F1X3LG6 | 1" x 3" Slotted Wiring Duct, Light Gray |
| F1.5X1.5LG6 | 1.5" x 1.5" Slotted Wiring Duct, Light Gray |
| F1.5X3LG6 | 1.5" x 3" Slotted Wiring Duct, Light Gray |
| F2X1.5LG6 | 2" x 1.5" Slotted Wiring Duct, Light Gray |
| F2X2LG6 | 2" x 2" Slotted Wiring Duct, Light Gray |
| F2X3LG6 | 2" x 3" Slotted Wiring Duct, Light Gray |
| F2X4LG6 | 2" x 4" Slotted Wiring Duct, Light Gray |
| F3X3LG6 | 3" x 3" Slotted Wiring Duct, Light Gray |
| F3X4LG6 | 3" x 4" Slotted Wiring Duct, Light Gray |
| F4X4LG6 | 4" x 4" Slotted Wiring Duct, Light Gray |
| C1LG6 | 1" Wiring Duct Cover, Light Gray |
| C1.5LG6 | 1.5" Wiring Duct Cover, Light Gray |
| C2LG6 | 2" Wiring Duct Cover, Light Gray |
| C3LG6 | 3" Wiring Duct Cover, Light Gray |
| C4LG6 | 4" Wiring Duct Cover, Light Gray |

* Wide Finger Duct Available

Panduit offers a wide variety of sizes, colors, and materials to meet your application's wire capacity needs and space constraints. This allows for reduced control panel footprints by utilizing unused 3D space within your control panels.



Wire Terminals and Ferules



| Part Number | Description |
|-------------|--|
| BSN10-L | Butt Splice Nylon Insulated 12-10AWG PK50 |
| BSN14-C | Butt Splice Nylon Insulated 16-14AWG PK100 |
| BSN18-C | Butt Splice Nylon Insulated 22-18AWG PK100 |
| PN10-10F-L | Fork Nylon Insulated 12-10AWG #10 PK50 |
| PN10-8F-L | Fork Nylon Insulated 12-10AWG #8 PK50 |
| PN10-14F-L | Fork Nylon Insulated 12-10AWG 1/4" PK50 |
| PN14-10F-C | Fork Nylon Insulated 18-14AWG #10 PK100 |
| PN14-6F-C | Fork Nylon Insulated 18-14AWG #6 PK100 |
| PN14-8F-C | Fork Nylon Insulated 18-14AWG #8 PK100 |
| PN18-10F-C | Fork Nylon Insulated 22-18AWG #10 PK100 |
| PN18-6F-C | Fork Nylon Insulated 22-18AWG #6 Stud PK100 |
| PN18-8F-C | Fork Nylon Insulated 22-18AWG #8 Stud PK100 |
| PN14-10R-C | Ring Nylon 18-14AWG #10 Stud PK100 |
| PN14-6R-C | Ring Nylon 18-14AWG #6 Stud PK100 |
| PN14-8R-C | Ring Nylon 18-14AWG #8 Stud PK100 |
| PN18-10R-C | Ring Nylon 22-18AWG #10 Stud PK100 |
| PN18-6R-C | Ring Nylon 22-18AWG #6 Stud PK100 |
| PN18-8R-C | Ring Nylon 22-18AWG #8 Stud PK100 |
| PN10-10R-L | Ring Nylon Insulated 12-10AWG #10 PK50 |
| PN10-8R-L | Ring Nylon Insulated 12-10AWG #8 Stud PK50 |
| PN10-14R-L | Ring Nylon Insulated 12-10AWG 1/4" Stud PK50 |

Insulated Ferules

| Part Number | Description |
|-------------|---------------|
| FSD75-8-D | Ferrule 20AWG |
| FSD76-8-D | Ferrule 18AWG |
| FSD78-8-D | Ferrule 16AWG |
| FSD80-8-D | Ferrule 14AWG |
| FSD81-12-C | Ferrule 12AWG |
| FSD82-12-C | Ferrule 10AWG |
| FSD83-12-C | Ferrule 8AWG |

Crimp Tool

| Part Number | Description |
|-------------|--------------------|
| CT-1000 | Ferrule Crimp Tool |



 $\label{lem:additional} \textit{Additional configurations for all items shown are available}.$





Panel / Wire Identification Printing



| Part Number | Description |
|-------------|---|
| M210 | Portable Label Printer |
| M211 | Bluetooth Printer, access files and design on phone, compact and wearable |

Labels

| Part Number | Label Type | Color | Width Inches |
|----------------|--|-----------------|--------------|
| M21-500-595-WT | Continuous Vinyl, All Weather | Black on White | 0.5 |
| M21-750-595-WT | Continuous Vinyl, All Weather | Black on White | 0.75 |
| M21-500-595-YL | Continuous Vinyl, All Weather | Black on Yellow | 0.5 |
| M21-750-595-YL | Continuous Vinyl, All Weather | Black on Yellow | 0.75 |
| M21-750-427 | Self-Laminating | Black on White | 0.75 |
| M21-1000-427 | Self-Laminating | Black on White | 1 |
| M21-1500-429 | Self-Laminating | Black on White | 1.5 |
| M21-500-499 | Wire-Cable Wrap, Multi-purpose | Black on White | 0.5 |
| M21-750-499 | Wire-Cable Wrap, Multi-purpose | Black on White | 0.75 |
| M21-125-C-342 | Heat Shrink, 0.125 in. diameter x 7 ft | Black on White | 0.125 |
| M21-187-C-342 | Heat Shrink, 0.187 in. diameter x 7 ft | Black on White | 0.187 |



<u>CEMBRE IDENTIFICATION AND LABELING</u> <u>SYSTEMS</u>

CEMBRE offers a number of innovative solutions to meet the demands for high performance and reliability in the industrial and manufacturing sectors.

THERMAL TRANSFER SHEET PRINTER MARKINGGENIUS®

The revolution in identification systems, MARKINGGENIUS®MG3 is a high-speed flatbed printer using thermal transfer technology to produce identification and labeling media for cables and tubing, panel building components and equipment of all types.

Windows® based, the high resolution MARKINGGENIUS®MG3 prints monocolor true type fonts, while also reproducing Clipart images, drawings, and bitmaps down to very small dimensions.



Enclosures & Accessories



Hoffman CONCEPT SERIES NEMA 4/12

| Part Number | Dimensions (H" x W" x D") | Back Panel Needed |
|-------------|---------------------------|-------------------|
| CSD16126 | 16" X 12" X 6" | CP1612 |
| CSD20168 | 20" X 16" X 8" | CP2016 |
| CSD24208 | 24" X 20" X 8" | CP2420 |
| CSD30248 | 30" X 24" X 8" | CP3024 |
| CSD30308 | 30" X 30" X 8" | CP3030 |
| CSD363612 | 36" X 36" X 12" | CP3636 |
| CSD42308 | 42" X 36" X 8" | CP4230 |
| CSD48308 | 48" X 36" X 8" | CP4830 |

Continuous Hinge with Clamps, Type 12

| Part Number | Dimensions (H" x W" x D") | Back Panel Needed | |
|-------------|---------------------------|-------------------|---|
| A6044CH | 6" X 4" X 4" | A6P4 | |
| A8066CH | 8" X 6" X 6" | A8P6 | |
| A1008CH | 10" X 8" X 4" | A10P8 | |
| A10086CH | 10" X 8" X 6" | A10P8 | |
| A10106CH | 10" X 10" X 6" | A10P10 | |
| A1210CH | 12" X 10" X 6" | A12P10 | |
| A1212CH | 12" X 12" X 6" | A12P12 | |
| A1412CH | 14" X 12" X 6" | A14P12 | |
| A1614CH | 16" X 14" X 6" | A16P14 | |
| A202006LP | 20" X 20" X 6" | A20P20 | |
| A242408LP | 24" X 24" X 8" | A24P24 | · |
| A363608LP | 36" X 36" X 8" | A36P36 | · |

Accessories

| Part Number | Description |
|-------------|---------------------------|
| A4AXFN | Compact Axial Fan 4" 120V |
| AFLT44 | Filter Kit 4" |
| AVK44 | Louver Kit, 4x4 |

CSD Series Applications:

CSD Series Concept Enclosures are ideal for machine control applications. With streamlined styling, flush quarter-turn latches and an attractive, durable finish.

A Series Applications:

For applications requiring a bright white interior to increase control visibility, this enclosure includes a padlocking hasp and staple for security and screw-down clamps for secure closure.





22мм Operators

Pushbuttons

| Part Number | Description | |
|-------------|--|--|
| M22-DR-G | Green Flush Maintained Pushbutton (Field convertible to Momentary) | |
| M22-DR-S | Black Flush Maintained Pushbutton (Field convertible to Momentary) | |
| M22-DR-R | Red Flush Maintained Pushbutton (Field convertible to Momentary) | |
| M22-DRH-R | Red Extended Momentary Pushbutton | |
| M22-DL-G | Green Illuminated Pushbutton | |
| M22-DL-R | Red Illuminated Pushbutton | |

Pilot Lights

| 1 HOU EIGHUS | |
|--------------|--|
| Part Number | Description |
| M22-L-R | Red Indicating Light |
| M22-L-G | Green Indicating Light |
| M22-L-Y | Yellow Indicating Light |
| M22-L-B | Blue Indicating Light |
| M22-L-W | White Indicating Light |
| M22-LED-G | Green Front Mounted 12-30VAC/DC LED unit |
| M22-LED-R | Red Front Mounted 12-30VAC/DC LED Unit |
| M22-LED-W | White Front Mounted 12-30VAC/DC LED Unit |
| M22-LED230-G | Green Front Mounted 85-264VAC LED Unit |
| M22-LED230-W | White Front Mounted 85-264VAC LED Unit |
| M22-LED230-R | Red Front Mounted 85-264VAC LED Unit |
| M22-LED230-R | Red Front Mounted 85-264VAC LED Unit |

E-Stops

| Part Number | Description |
|-------------|-------------------------|
| M22-PV | Push-Pull E-Stop |
| M22-PVL | Red Illuminated E-Stop |
| M22-PVT | Twist-to-Release E-Stop |

Selector Switches

| Part Number | Description | |
|-------------|--|--|
| M22-WK | Two Position Momentary Selector Switch | |
| M22-WK3 | Three Position Momentary Selector Switch | |
| M22-WKV | Two Position Maintained Selector Switch | |
| M22-WRK3 | Three Position Maintained Selector Switch | |
| M22-WRS | Two Position Maintained Selector Switch, Keyed | |
| M22-WRS3 | Three Position Maintained Selector Switch, Keyed | |

Contact Blocks

| Part Number | Description |
|-------------|---------------------------------|
| M22-K01 | 1NC Front Mounted Contact Block |
| M22-K10 | 1NO Front Mounted Contact Block |
| M22-KC01 | 1NC Base Mounted Contact Block |
| M22-KC10 | 1NO Base Mounted Contact Block |

Non-Metallic 22M Operator Enclosures by Eaton

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|-------------|---------------------------------------|
| Part Number | Description |
| M22-I1-PG | 1 Operator, IP67, IP69K, NEMA 4X, 13 |
| M22-I2-PG | 2 Operators, IP67, IP69K, NEMA 4X, 13 |
| M22-I3-PG | 3 Operators, IP67, IP69K, NEMA 4X, 13 |

Metal 22M Operator Enclosures by Hoffman

| Part Number | Description |
|-------------|--------------------|
| E1PBG | 1 Operator, N12/13 |
| E2PBG | 2 Operator, N12/13 |
| E3PBG | 3 Operator, N12/13 |

Miscellaneous Operators

| miscendificous op | Miscellaneous operators | |
|-------------------|--|--|
| Part Number | Description | |
| M22-R4K7 | Potentiometer, 4.7K | |
| M22-R10K | Potentiometer, 10K | |
| M22-DDLF-GR | Double Pushbutton, Green/Red Pushbuttons, Center Light | |

Accessories

| , 10003301103 | |
|---------------|---|
| Part Number | Description |
| M22S-R30 | 30mm to 22mm hole adapters |
| M22-B | Plug to Close Mounting Holes |
| M22-XD-SWRGYB | Flush Button Plate Pack (Black Red Green, Yellow, White, Blue |
| M22-USB-SA | Bulkhead Interface, USB Port |
| M22-RI45-SA | Bulkhead Interface RI45 Port |



Pushing the Boundaries of What's Possible...

Modular Design and Functionality

- Modular and flexible
- Plastic construction with silver, black and metal bezel options
- Stackable contact blocks
- Spring-cage terminal blocks
- Traditional contact elements (M22-K) and indicating lights (M22-LED) with 45mm depth



30мм Operators



Pushbuttons

| Part Number | Description |
|-------------|--|
| 10250T30G | Green Flush Momentary Pushbutton W/1NO 1 N/C |
| 10250T31R | Red Extended Head Momentary Pushbutton W 1N/C 1N/O |
| 10250T30B | Black Flush Momentary Pushbutton W 1 N/O 1 N/C |
| 10250T33 | Red Mushroom Emergency Stop with 1N/O 1N/C |

Pilot Lights

| i not Eights | |
|----------------|------------------------------|
| Part Number | Description |
| 10250T197LRP2A | Red Indicating Light 120V |
| 10250T197LGP2A | Green Indicating Light 120V |
| 10250T197LRP24 | Red Indicating Light 24VDC |
| 10250T197LGP24 | Green Indicating Light 24VDC |

E-Stops

| Part Number | Description |
|---------------|------------------|
| 10250T5B62-1X | Push-Pull E-Stop |

Selector Switches

| Part Number | Description |
|-------------|--------------------------------------|
| 10250T20KB | Two Position MAINT Selector Switch |
| 10250T21KB | Three Position MAINT Selector Switch |

Contact Blocks

| Part Number | Description |
|-------------|-----------------------|
| 10250T51 | 1NC Contact Block |
| 10250T53 | 1NO Contact Block |
| 10250T1 | 1NO/1NC Contact Block |
| 10250T2 | 2NO Contact Block |
| 10250T3 | 2NC Contact Block |

Enclosures

| Part Number | Description |
|-------------|---------------------------------------|
| E1PB | Hoffman 1 Hole Enclosure 30MM, N12/13 |
| E2PB | Hoffman 2 Hole Enclosure 30MM, N12/13 |
| E3PB | Hoffman 3 Hole Enclosure 30MM, N12/13 |

Miscellaneous Operators

| Part Number | Description |
|-------------|--------------------|
| 10250T338 | Potentiometer, 5K |
| 10250T333 | Potentiometer, 10K |



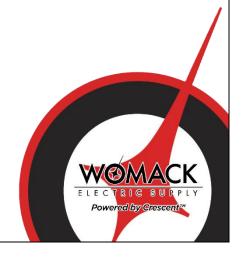
Largest breadth of functionality and only one piece metal housing operator in the industry.

Eaton's 10250T line of heavy-duty, water and oil-tight 30.5mm pushbuttons are an excellent choice for applications where reliability and durability are required.

The pushbuttons feature a heavy-duty zinc die-cast construction, and reliability nibs improve contact reliability even under dry circuit and fine dust conditions.

- 30.5mm
- NEMA Class 1 Division 2
- NEMA 4X Rated





Notification Products

FAT•N

Eaton SL7-70MM Stack Lights

Continuous Light

| Part Number | Voltage | Color |
|-------------|-------------|-------|
| SL7-L24-R | 24V AC/DC | Red |
| SL7-L24-G | 24V AC/DC | Green |
| SL7-L24-A | 24V AC/DC | Amber |
| SL7-L24-B | 24V AC/DC | Blue |
| SL7-L120-R | 110/120V AC | Red |
| SL7-L120-G | 110/120V AC | Green |
| SL7-L120-A | 110/120V AC | Amber |
| SL7-L120-B | 110/120V AC | Blue |

Flashing Light

| Part Number | Voltage | Color |
|-------------|-------------|-------|
| SL7-BL24-R | 24V AC/DC | Red |
| SL7-BL24-G | 24V AC/DC | Green |
| SL7-BL120-R | 110/120V AC | Red |
| SL7-BL120-G | 110/120V AC | Green |

Acoustic Modules

| Part Number | Voltage | Color |
|-------------|-------------|-------|
| SL7-AP24 | 24V AC/DC | Black |
| SL7-AP120 | 110/120V AC | Black |

Bases

| Part Number | Description | |
|--------------|---|--|
| SL7-CB-100 | 100MM Black With Aluminum Tube And Black Base | |
| SL7-CB-T-100 | 100MM Black With M20 Threaded Base | |





Horns

| Part Number | Description |
|-------------|---|
| 450E-024 | 24v Electronic Horn, 4 X 4 Inches |
| WB | Weatherproof Backing Box For 450, 350 Horns |
| 350-120-30 | 120V Mechanical Horn, 4 X 4 Inches |

Eaton's SL Series Stack Lights

Attention-Grabbing Performance

- Tool Free Assembly
- Customizable Configurations
- Compliant with global performance standards
- Reliable audible and visual signaling







Sensor Solutions

DATA ENSING easing automation challenges



SR31 sensors fork with slot of mmdepth is



SRF line includes 30, 50, 80 and 120mm fork sensors



TL50 contrast sensor is reduction.





TL46 contrast sensor widest line with RGB LED from basic



LD46 is equipped with 5 UV high power LED emission and high



saving in a standard



S65-W sensor offers space saving in a standard



DS3 light arrays are used to detect and/or measure



for height or width,...



Sensors to Solve the **Toughest Applications**

- Limit Switches
- Inductive Sensors
- Proximity Switches
- Photo-Electric
- Ultra-Sonic
- Color Registration
- Flag Sensors
- Contrast Sensors
- Time-Of Flight
- Level
- Encoders
- Smart Sensors
- Arrays
- Fiber Optic





SMART-VSTH The Smart Vision Sensor (VS) is a unique and very...



S5N S5N is the Datalogic new generation M18 sensor line



S51 sensors offer best cost saving and the widest choice



S5 standard M18 sensors with axial or radial optics,



S15 tubular sensors with short barrel, in plastic or...







Contrinex is a global technology leader for Smart Sensors for complex automation and smart factory applications using real-time sensor data for **IIoT** and remote asset management.



line offers through beam,...



SM-all LINE offers the smallest photoelectric



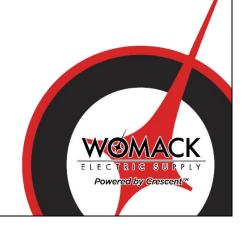
focus, SM2 ultra-flat

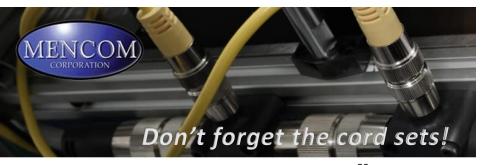


The S100 Sensor basic line offers the most competitive.



S45 line offers LED and Laser sensors in standard miniature...





Safety Solutions

Optimum Safety Solutions for Every Application!

... from the Best Names in the Business



















Safety Relays
Light Curtains
Safety Sensors
Safety Switches
Safety Scanners
Safety Gate Systems
Safety Controllers

... and More

Safety PLCs

This Control Quick Selection Guide shows commonly used, in-stock items. Additional configurations for all items shown are available.

Technical Support Center

Our Technical Support Center has experienced engineers who can assist you with your industrial automation and electrical control needs. Our Technical Support Team offers real-time customer assistance in finding the 'right' product or an alternative to your current manufacturer, pre-sale application support, post-sale product support and troubleshooting.

- Product Research and Selection
 Product Application Support
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