

WOMACK
ELECTRIC SUPPLY

Powered by Crescent™

CONTROL

Quick Selector Guide



1-Phase AC Motor F.L.A.			3-Phase 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
			30	88	80	40
			40	114	104	52
			50	143	130	65
			60	169	154	77
			75	211	192	96
			100	273	248	124
			125	343	312	156
			150	396	360	180
			200	528	480	240

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.



AC Induction Motor					
HIGH EFFICIENT					
ORD. NO.	1LA0264SE41		E NO.		
TYPE	RGZESD		FRAME	286T	
H.P.	30.0		SERVICE FACTOR	1.15	3 PH
AMPS.	35.0		VOLTS	460	
R.P.M	1765		HERTZ	60	
DUTY	CONT 40° C AMB		DATE CODE		
CLASS	F	NEMA DESIGN B	KVA CODE G	NEMA NOM. EFF	93.0
SH END BRG	50RU03K30		OPP END BRG	50BC03JPP3	
Made in Mexico					



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 through a deep understanding of the business, anticipating needs, and working with you to attack critical areas of concern.

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.



Technical Support Center

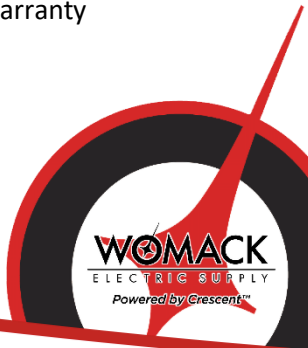
Our Technical Support Center has experienced engineers who can assist you with your industrial automation and electrical control needs. Our Technical Support Team offers real-time customer assistance in finding the ‘right’ product or an alternative to your current manufacturer, pre-sale application support,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

- Product Research and Selection
- Product Application Support
- Proof-of-Concept
- Wireless Site Surveys
- Automation and Control Troubleshooting
- Cross Referencing and BOM Conversations
- VFD Start-up Service and Extended Warranty
- Training



CONTACT US

techsupport@womackelectric.com
866.432.9581



CONTROL

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Molded Case Industrial Circuit Breakers



Panel Mount Breakers, 3 Pole, 600V

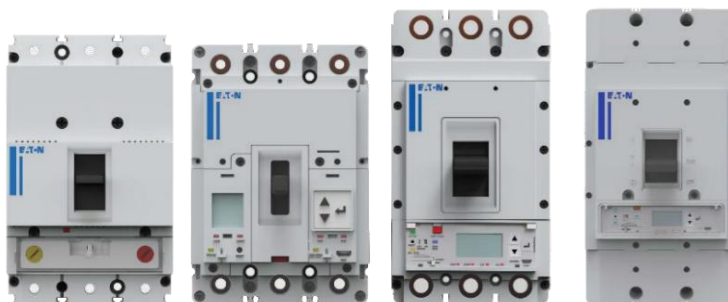
Amperage	Part Numbers		
	18KAIC	35KAIC	65KAIC (Standard)
15	PDG-1-3-C-0015-TFFJ	PDG-1-3-F-0015-TFFJ	PDG-1-3-G-0015-TFFJ
20	PDG-1-3-C-0020-TFFJ	PDG-1-3-F-0020-TFFJ	PDG-1-3-G-0020-TFFJ
25	PDG-1-3-C-0025-TFFJ	PDG-1-3-F-0025-TFFJ	PDG-1-3-G-0025-TFFJ
30	PDG-1-3-C-0030-TFFJ	PDG-1-3-F-0030-TFFJ	PDG-1-3-G-0030-TFFJ
50	PDG-1-3-C-0050-TFFJ	PDG-1-3-F-0050-TFFJ	PDG-1-3-G-0050-TFFJ
60	PDG-1-3-C-0060-TFFJ	PDG-1-3-F-0060-TFFJ	PDG-1-3-G-0060-TFFJ
100	PDG-1-3-C-0100-TFFJ	PDG-1-3-F-0100-TFFJ	PDG-1-3-G-0100-TFFJ

Accessories

Part Number	Description
PDG1X3TA1256W	Multi-wire Terminal 6 Wire
PDG1XHMDE	Handle and Mechanism (Shaft Separate)
PDG12XHMS307	12' Shaft
PDGXPLKSNAP	Padlockable Handle Lock, Snap-on (Fit Type: Center)
PDG1XPLKT	Padlockable Handle Lock Hasp (Fit Type: Top)
PDG1XPLKTOFF	Padlockable Handle Lock Hasp (Fit Type: Top)
PDG1XPLKROFF	Padlockable Handle Lock Hasp (Fit Type: Right)
AUX1A1BPK	Auxiliary Switch, Field Installable, 1NO/1NC (1 Form C)
AUX2A2BPK	Auxiliary Switch, Field Installable, 2 NO/2NC (2 Form C)
ALM1M1BEPK	Alarm Switch, Field Installable, 3P, 1NO/1NC
ALM2M2BEPK	Alarm Switch, Field Installable, 3P, 2NO/2NC

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.

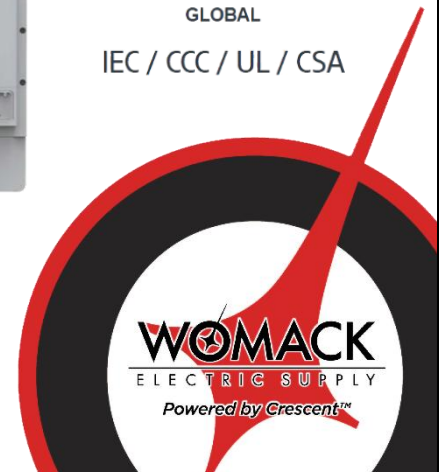
**Power
Defense**



A globally rated platform from Eaton.



GLOBAL
IEC / CCC / UL / CSA



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

Rotary Disconnects



Non-Fused Switches

Part Number	Description
R5A3016U	16 AMP 3P Non-Fused Disconnect Switch UL 508
R5A3030U	30 AMP 3P Non-Fused Disconnect Switch UL 508
R5A3040U	40 AMP 3P Non-Fused Disconnect Switch UL 508
R5A3080U	80 AMP 3P Non-Fused Disconnect Switch UL 508
R9C3100U	100 AMP 3P Non-Fused Disconnect 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 5mm x 5mm
SF200PH10X10	7.9 Inch Shaft 10mm x 10mm
SF320PH10X10	12.6 Inch Shaft 10mm x 10mm

Accessories

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.

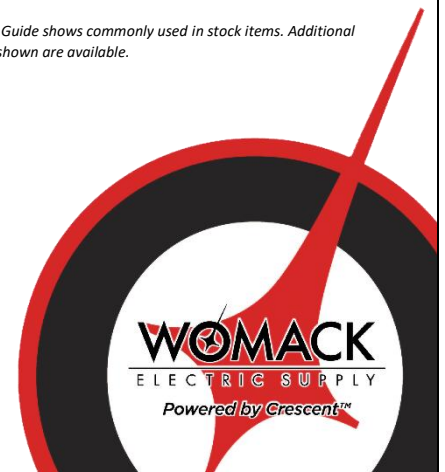
R5 Product Description:

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.

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



Circuit Protection



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 current at which the breaker will trip without causing a time delay (magnetic trip).

- **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

- HACR Equipment
- Convenience Receptacles
- Load Circuits
- Motor Control Circuits
- Power Supplies
- Power Conditioners
- PLC I/O Points
- UPS, Computers, & Relays

Need To Save Space? Use WAGO Electronic Circuit Breakers



Single Channel, 24VDC	Description
787-3861/100-000	1 AMP
787-3861/200-000	2 AMP
787-3861/400-000	4 AMP
787-3861/600-00	6 AMP
787-3861/800-000	8 AMP
787-3861/108-020	1-8 AMP Adjustable (every 1A)
787-3861/004-020	.5-4 AMP Adjustable (every .5A)

787-3861: Next Gen Single-Channel ECB Advantages:

- Ability to configure the S2 output on ALL variants and to report 7 different states including triggered or manually switched off along with early load warnings
- Devices no longer have a hard to open cover to access the manual reset wheel, offering an indented button to be operated with a tool
- On adjustable units, the current limit can be set via discrete setting wheel instead of a sequence of inputs through the manual input wheel, making it much easier to set and identify current settings.
- Six fixed and two adjustable rated current versions from 0.5 A to 8 A
- LED status indicators to identify device status
- 6mm slimline design
- Easy jumpering to 857 and 2857 series devices with same terminal layout
- High switching capacity: > 50,000 μ F for non-NEC Class 2 devices
- S1 Input and Configurable S2 Output for easy remote monitoring and control
- Approvals: CE, UL 61010, UL 2367, and UL 1310 NEC Class 2 Versions



Multi-Channel, 24VDC	Description
787-3664	Basic 4 Channel
787-3668	Basic 8 Channel

Next Gen 4-and 8-Channel ECB Advantages:

- Improves channel density
- Each config. uses 32mm on DIN Rail
- High switch-on capacity: > 50,000 μ F
- Approvals: CE, UL 61010-2-201, UL 2367
- Offers even higher current circuit protection
- 1-10A circuit protection per channel (16A/Binding)
- Group message input/output signals

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



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-CC-.5	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 Control Transformers)

KTK-R-1	KTK-R-2	KTK-R-21/2	KTK-R-3	KTK-R-5
KTK-R-6	KTK-R-10	KTK-R-15	KTK-R-20	KTK-R-25
KTK-R-30				

Class J 600V Time Delay

LPJ-15SP	LPJ-20SP	LPJ-25SP	LPJ-30SP	LPJ-35SP
LPJ-40SP	LPJ-50SP	LPJ-60SP	LPJ-80SP	LPJ-100SP
LPJ-125SP	LPJ-150SP	LPJ-200SP		

Fuse Blocks – Open Style

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

Class CC Fuse Holders - Fingersafe

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.

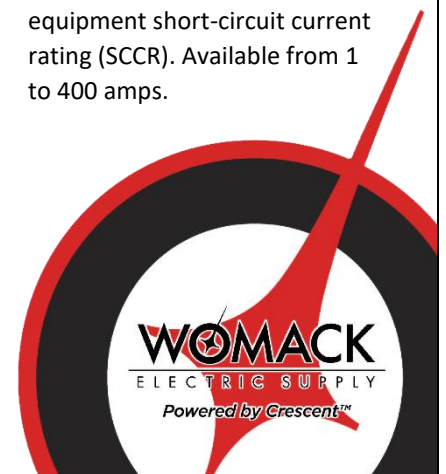


SPACE SAVING SOLUTION

Bussman series Class CF CUBEFuses



Low-Peak™ CUBEFuse™ delivers the smallest footprint compared to any Class CC, J or RK fuse solution - requiring up to 70% less space when combined with its unique fuse holder or UL® 98 Listed Compact Circuit Protector switch. Freeing up space is powerful. And the CUBEFuse does just that, while packing up to a 300-kA interrupting rating and enabling higher equipment short-circuit current rating (SCCR). Available from 1 to 400 amps.



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



PSL- Economy Series - Single Phase 100-240V AC Input, 24V DC Output

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

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

Part Number	Description
PSG60F24RM	2.5A Output
PSG120F24RM	5A Output
PSG240F24RM	10A Output
PSG480F24RM	20A Output
PSG960F24RM	40A Output



Wago "Cage Clamp" Power Supplies

Single Phase 90-264V AC Input, 24V DC Output

Part Number	Output
787-712	2.5 AMP
2587-2144	5 AMP
2587-2146	10 AMP
2587-2148	40 AMP

Wago "Cage Clamp" Power Supplies

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

Part Number	Output
2587-2346	10 AMP
2587-2347	20 AMP
2587-2348	40 AMP

Control Transformers

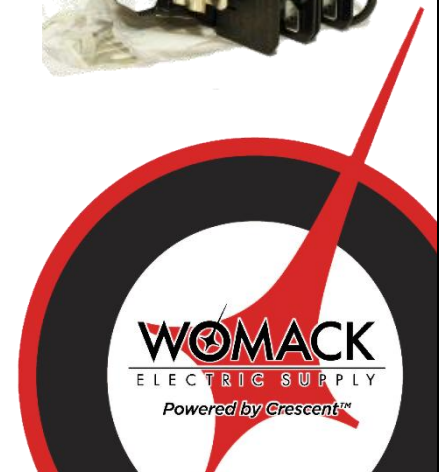
Primary 240 X 480VAC - Secondary 120VAC

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



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



Push Button Terminal Blocks

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

Convenience Outlets - DIN RAIL

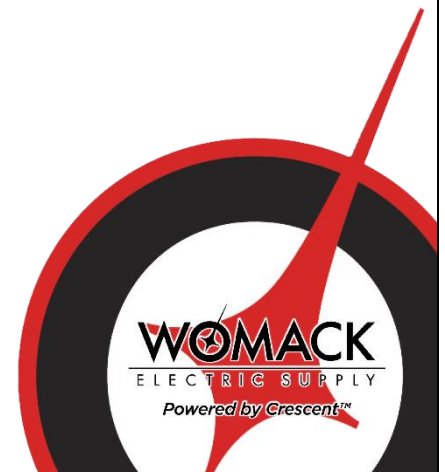
510-17543

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

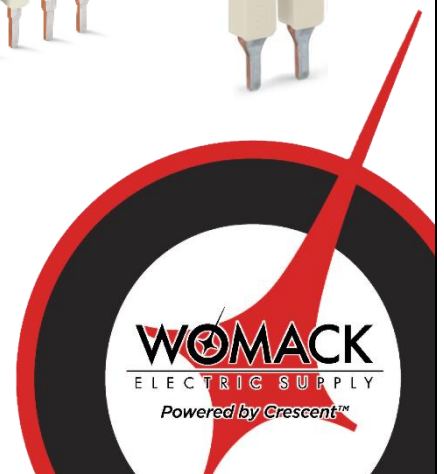
Part Numbers	Description
2002-1291	Plate for 2002-12xx Series; 0.8 MM Wide; Gray
2002-1292	Plate for 2002-12xx Series; 0.8 MM Wide; Orange
2002-1293	Plate for 2002-12xx Series; 2 MM Wide; Gray
2002-1392	Plate for 2002-13xx Series; 0.8 MM Wide; Orange
2002-1393	Plate for 2002-13xx Series; 2 MM Wide; Gray
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)

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



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

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

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
XBATSPA14	Test Adapter
XBMZB6	Blank Marker Strip
XBAES35C	End Stop, One Screw Mount
XBAES35N	End Stop, Snap On
XBANS3575P	35MM DIN Rail, Slotted 1M

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

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

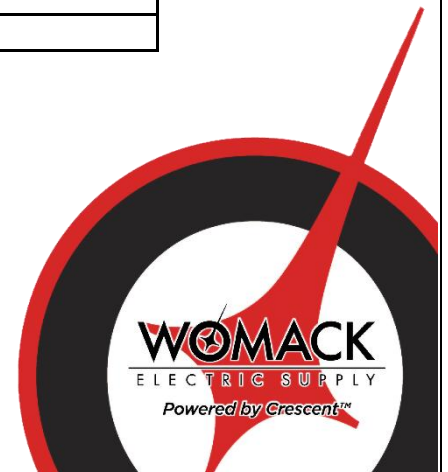
XBUT Series IEC Terminal Blocks - Screw Connection



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.



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 Module 8 IO
EASY-E4-UC-16RE1	24V DC Expander Module 16 IO
EASY-E4-AC-8RE1	120V AC Expander Module 8 IO
EASY-RTD-DC-43-03B1T	Easy Remote Touch Display Operating Panel 24V DC 4.3Z TFTCOLOR 480x272 PX Res. Ethernet
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 TRL92 and 24V – 240Vac/dc for TRL91.

Function	Part # TRL91	Part # TRL92
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

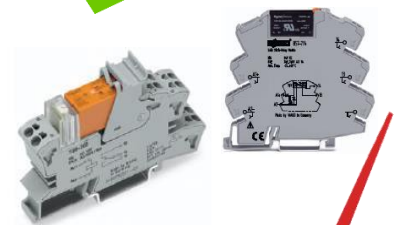


Think Automation and beyond...

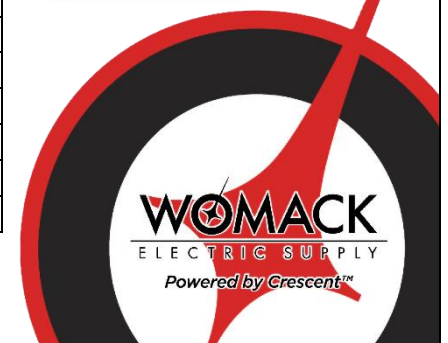


WAGO DIN Rail Relays

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



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



IEC Contactors & Starters



EATON XT Contactors

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

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

EATON XT Solid State Electronic Overload Relays

Part Number	Description	Aux Contact Config	Frame
XTOE1P6BCS	SS Overload .33-1.65A Frame B	NO-NC	B
XTOE005BCS	SS Overload 1-5A Frame B	NO-NC	B
XTOE020BCS	SS Overload 4-20A Frame B	NO-NC	B
XTOE1P6CCS	SS Overload .33-1.65A Frame C	NO-NC	C
XTOE005CCS	SS Overload 1-5A Frame C	NO-NC	C
XTOE020CCS	SS Overload 4-20A Frame C	NO-NC	C
XTOE045CCS	SS Overload 9-45A Frame C	NO-NC	C
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

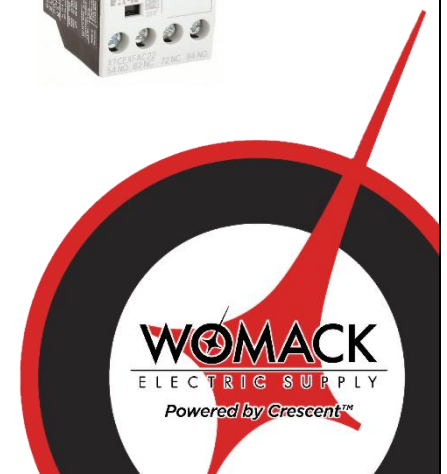
Part Number	Description	Frame
XTCEXFAC11	Aux Contact, Top Mount 1NO-1NC	B-C
XTCEXFAC22	Aux Contact, Top Mount 2NO-2NC	B-C
XTCEFBG11	Aux Contact, Top Mount 1NO-1NC	D-G
XTCEFBG22	Aux Contact, Top Mount 2NO-2NC	D-G
XTCEXSAB10	Aux Contact, Side Mount 1NO	B
XTCEXSAB01	Aux Contact, Side Mount 1NC	B
XTCEXSAB11	Aux Contact, Side Mount 1NO-1NC	C
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
XTOE100CCSS	Solid State Overload, 20-100 AMP, Stand Alone



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



Manual Motor Protectors



Part Number	Description	HP @ 480V	Frame
XTPRP16BC1	MMP Rotary, .1 - .16A	*	B
XTPRP25BC1	MMP Rotary .16 - .25A	*	B
XTPRP40BC1	MMP Rotary .25 - .4A	*	B
XTPRP63BC1	MMP Rotary .4 - .63A	*	B
XTPR001BC1	MMP Rotary .63 - 1A	*	B
XTPR1P6BC1	MMP Rotary 1 - 1.6A	3/4	B
XTPR2P5BC1	MMP Rotary 1.6 - 2.5A	1	B
XTPR004BC1	MMP Rotary 2.5 - 4A	2	B
XTPR6P3BC1	MMP Rotary 4 - 6.3A	3	B
XTPR010BC1	MMP Rotary 6.3- 10A	7-1/2	B
XTPR012BC1	MMP Rotary 8 - 12A	7-1/2	B
XTPR016BC1	MMP Rotary 10 - 16A	10	B
XTPR020BC1	MMP Rotary 16 - 20A	10	B
XTPR025BC1	MMP Rotary 20 - 25A	15	B
XTPR032BC1	MMP Rotary 25 - 32A	25	B
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

Eaton XT IEC Power Control Family

XT Series - Electronic Manual Motor Protectors and Electronic Motor Starters

- 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.

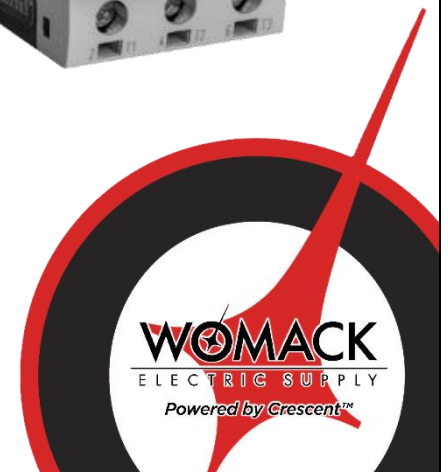
** For smaller motors, use FLA data on nameplate.*

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	B
XTPAXCLKA2D	Commoning Link, 3PH to Connect 2 MMPs Together	D
XTPAXCLKA3	Commoning Link, 3PH to Connect 3 MMPs Together	B
XTPAXCLKA3D	Commoning Link, 3PH to Connect 3 MMPs Together	D
XTPAXCLKA4	Commoning Link, 3PH to Connect 4 MMPs Together	B
XTPAXCLKA4D	Commoning Link, 3PH to Connect 4 MMPs Together	D
XTPAXCLKA5	Commoning Link, 3PH to Connect 5 MMPs Together	B
XTPAXLSA	Line Side Adapter for UL508 Combo Starter Installation	B
XTPAXLSAD	Line Side Adapter for UL508 Combo Starter Installation	D
XTPAXTPCB	Combo Connection Kit - for Adjoining XTCE and XTPR Combo	B
XTPAXECMC	Electrical Connection Kit for Adjoining XTCE and XTPR	B
XTPAXECMD	Electrical Connection Kit for Adjoining XTCE and XTPR	D
XTPAXENCSEM65RY	MMP Enclosure (NEMA 1, 12, 3R, Red & Yellow Handle)	B



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



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.

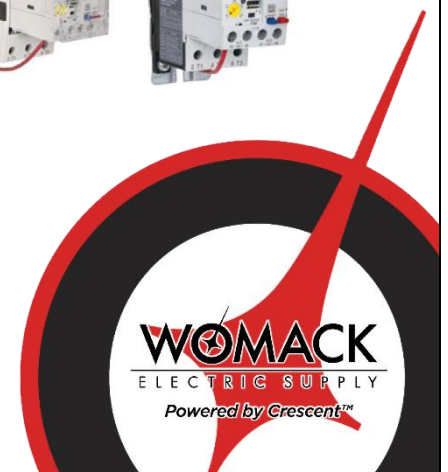
AN19 starters can be monitored in real-time over communications, allowing for reduced troubleshooting efforts and downtime.

Benefits

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



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



Variable Frequency Drives



The **DM1** and **DM1 PRO** microdrives are part of Eaton's next generation PowerXL Series of adjustable frequency drives specifically engineered for today's more demanding commercial and industrial applications.

115V AC Input	Constant Torque	Output 230V AC	
Part Number	Description	HP	FLA
DM1-111D6NB-S20S	Eaton DM1 Drive 1/4HP Single Phase	0.25	1.6
DM1-113D0NB-S20S	Eaton DM1 Drive 1/2HP Single Phase	0.5	3
DM1-114D8NB-S20S	Eaton DM1 Drive 1HP Single Phase	1	4.8
DM1-116D9NB-S20S	Eaton DM1 Drive 1-1/2HP Single Phase	1.5	6.9



Input 480V 3 Phase	Out 480V 3 Phase	HP	A
Part Number	Description	HP	A
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)

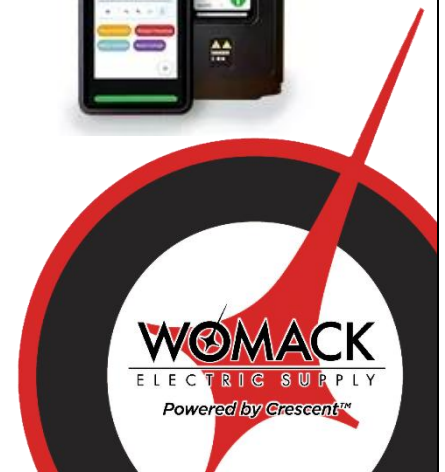


* Available HP Ratings (480V) for each: DM1-Up to 30HP, DG1 up to 1000HP, DX1 up to 200HP

Introducing Eaton's Newest High-Performance Drive with expanded graphics: The DX1

PowerXL DX1 premium VFD core features:

- Touchscreen capable keypad streamlines set-up, configuration, maintenance, and troubleshooting.
- Delivers precise speed and torque control for standard AC induction and permanent magnet motors using closed loop control.
- Delivers speed accuracy of $\leq 0.01\%$ of rated speed and wide speed range (1000:1).
- Provides highest level of safety in the industry, with STO, SIL 3, PLe and Cat. 4 certifications.
- Includes onboard PLC logic engine, metering, and communication.
- Features industry 4.0 Platform for most up-to-date IoT specifications.
- Cybersecurity IEC/EN 62443-4-2 Level 1 ensures ultimate protection against hackers.
- Ideal for a wide variety of industrial applications.



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

Variable Frequency Drives



YASKAWA

GA500 AC Microdrive (Applications: Conveyors, Pumps, Fans)

Power Output (HP)		240V Models									480V Models		
		Single-Phase				Three-Phase					Three-Phase		
Normal Duty	Heavy Duty	Catalog Code	Output Amps		Frame	Catalog Code	Output Amps		Frame	Catalog Code	Output Amps		Frame
			ND	HD			ND	HD			ND	HD	
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 Options (More Found in Catalog)					
Communication Cards		IP20/UL Type 1 Adapter Kits (For GA50U...)		Keypads and Remote Mounting	
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

GA501 AC Microdrive: Ethernet-Ready, Out of the Box

The 1/6 – 40 HP GA501 Industrial AC Microdrive with built-in Ethernet is engineered to easily handle nearly any application. With embedded dual port Ethernet and support for all major industrial Ethernet protocols, the GA501 eliminates extra hardware, reduces installation time, and simplifies system design. ***Part numbers are the same as the GA50, except starting with GA51.**

Standard Multi-Protocol Ethernet Support

- EtherNet/IP™
- PROFINET®
- Modbus TCP/IP
- EtherCAT®
- BACnet/IP®
- MECHATROLINK-4



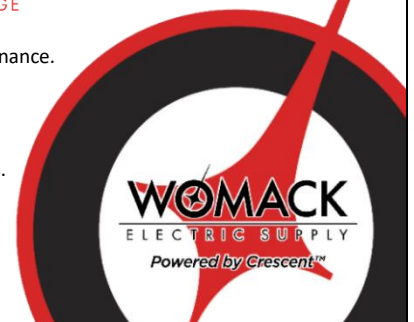
- Free Software! www.yaskawa.com
- Free Technical Support! 1-800-Yaskawa
- Free Training! Check with your local Sales Associate



Womack Variable Frequency Drive Services

- **Proof of Concept:** Focused tests to validate model feasibility before full-scale implementation.
- **Application Support:** Assistance in pre-sale selection and configuration to post-sale startup, troubleshooting, and maintenance.
- **Training:** Let us train your team in troubleshooting, startup, and basic operation of VFDs.
- **Startup & Commissioning:** Tech support to ensure correct initial installation and VFD parameter configuration, reducing the risk of failure.
- **Free Technical Support:** 24/7 support for diagnosing issues such as overcurrent, ground faults, or communication failures.
- **Extended Warranty Programs:** Coverage extension and support beyond standard factory warranty.

THE WOMACK ADVANTAGE



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

Variable Frequency Drives

GA800 AC Industrial Drive

(Applications: Conveyors, Pumps, Fans, Closed Loop Systems, etc.)



YASKAWA

Power Output (HP)		240V Models				480V Models			
Normal Duty	Heavy Duty	Catalog Code	Output Amps		Frame	Catalog Code	Output Amps		Frame
			ND	HD			ND	HD	
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 Options (More Found in Catalog)						
Communication Cards		NEMA 1 Type Adapters		Keypads and Remote 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.



U1000 Matrix Drive-IEEE 519 Compliant for Clean Power



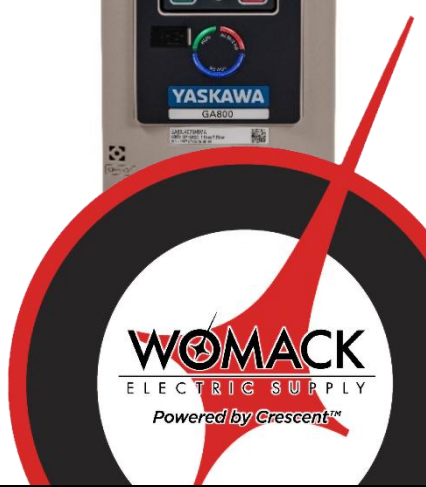
RANGES: 1 - 800HP 230V, 460V

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).



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



Wall Mount 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- UL 508A Listed; Type 12, 13, 3R, 4

Part Number	Dimensions (H" x W" x D")	Back Panel Needed
A161606LP	16" x 16" x 6"	A16P16
A161608LP	16" x 16" x 8"	A16P16
A202006LP	20" x 20" x 6"	A20P20
A242012LP	24" x 20" x 12"	A24P20
A242408LP	24" x 24" x 8"	A24P24
A302412LP	30" x 24" x 12"	A30P24
A302416LP	30" x 24" x 16"	A30P24
A362408LP	36" x 24" x 8"	A36P24
A362410LP	36" x 24" x 10"	A36P24
A363608LP	36" x 36" x 8"	A36P36
A423008LP	42" x 30" x 8"	A42P30

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.



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

Wiring Duct & Accessories

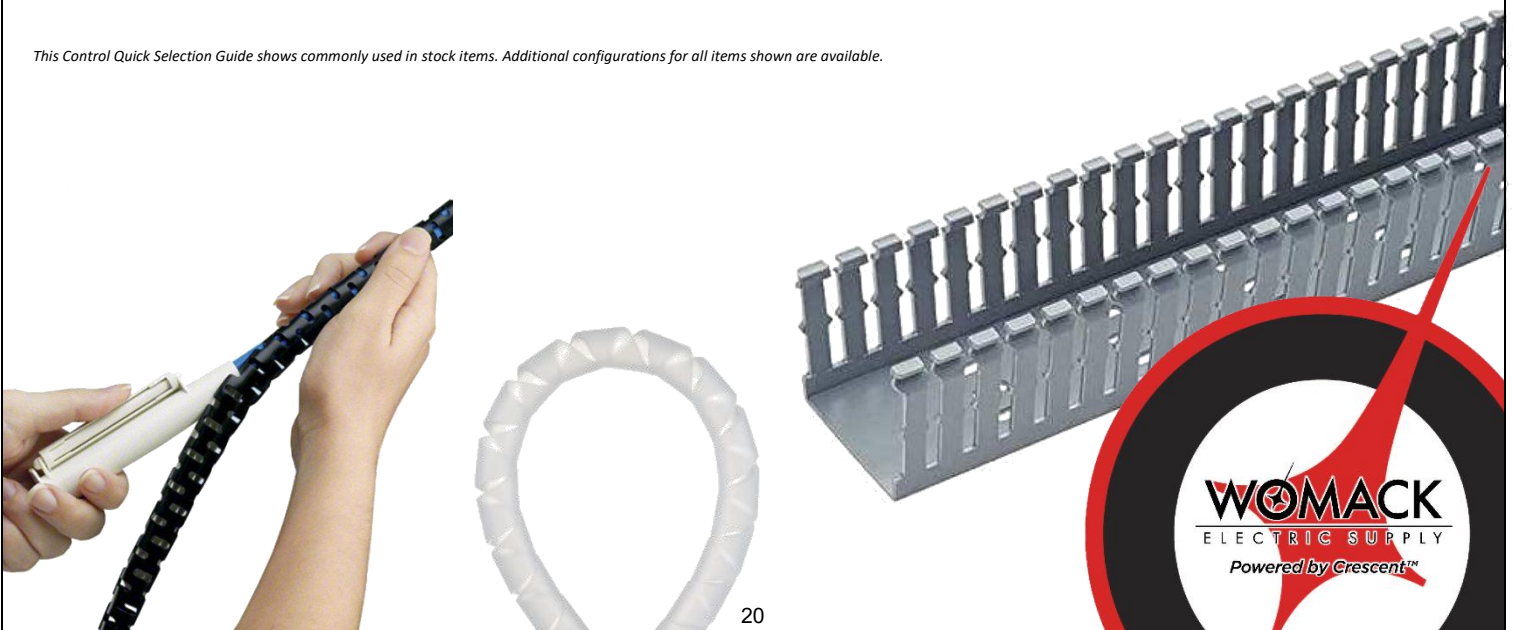


Part Number	Description
PW50F-T20	Pan-Wrap Split Harness Wrap 1/2", Black
PW75F-C20	Pan-Wrap Split Harness Wrap 3/4", Black
T38F-C	Spiral Wrap, 3/8", Natural
T50F-C	Spiral Wrap, 1/2", Natural
F1X1.5LG6	1" x 1.5" Slotted Wiring Duct, Light Gray
F1X2LG6	1" x 2" Slotted Wiring Duct, Light Gray
F1X3LG6	1" 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.

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



Wire Terminals and Ferrules



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
CT-1000	Ferrule Crimp Tool



Ferrules - PVC Insulated



Wire Size-AWG	Color	Cable Stripping Length (MM)	Part Number
22-20		10	PKD510
18		10	PKD7510
18		12	PKD7512
16		10	PKD1510
16		12	PKD1512
16		18	PKD1518
14		8	PKD2508
14		12	PKD2512
14		18	PKD2518
12		10	PKD410
12		12	PKD412
12		18	PKD418
10		12	PKD612
10		18	PKD618

Ferrules- TWIN- PVC Insulated



Wire Size-AWG	Color	Cable Stripping Length (MM)	Part Number
2 X 20		8	PKT508
2 X 18		8	PKT108
2 X 16		12	PKT1512
2 X 14		12	PKT2512



CEMBRE

ZKE610N & ZKE616N pliers provide cUL® & UL® certified compression when used with CEMBRE PKE, PKC, PKD and PKT sleeves.

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

WOMACK
ELECTRIC SUPPLY
Powered by Crescent™

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



MARKINGENIUS®MG4

TOP PRECISION AND PRINT QUALITY

THE MARKINGENIUS®MG4 is CEMBRE's newest solution for identification & labelling requirements, designed to offer a high quality and long-lasting print for text, logos, electrical symbols, QR codes and all kinds of vector images.

Equipped with a ribbon save system, a useful function that allows you to consume only the ribbon needed for printing. Its reliability and robustness mean that the MG4 can be used intensively, making it suitable for all kinds of applications. The large on-board touch screen enables quick and easy management of print projects. Each monochrome ribbon can print more than 300,000 MG-TPMF 4x10 mm labels. MG4 can be used with both a mains power supply and with CEMBRE CAS Alliance rechargeable batteries: the machine can be used in the office, in production and on site, right in front of the panel to be wired. The interchangeable battery, which can power both MG4 and all CEMBRE tools, allows for portability of the printer.



CEMBRE



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

22MM Operators



Pushbuttons by Eaton

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 by Eaton

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

E-Stops by Eaton

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

Selector Switches by Eaton

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 by Eaton

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

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 by Eaton

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

Accessories by Eaton

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-RJ45-SA	Bulkhead Interface, RJ45 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



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

30MM 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

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

Miscellaneous Operators

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

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 - Metal

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

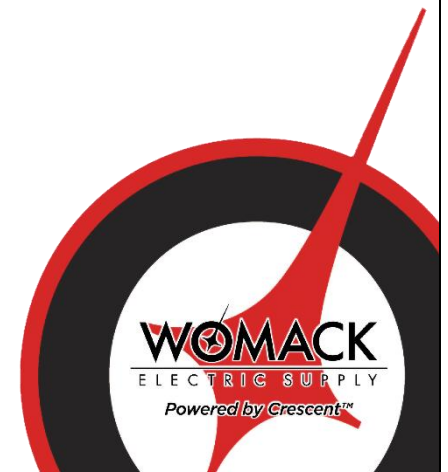
Largest breadth of functionality and only one-piece metal housing operator in the industry.

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

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



Notification Products

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

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



Eaton's SL Series Stack Lights - Attention-Grabbing Performance

- Tool Free Assembly
- Customizable Configurations
- Global Performance Standards Compliant
- Reliable Audible & Visual Signaling



ChekVolt®

Voltage Presence? Chek.

Voltage Absence? Chek.

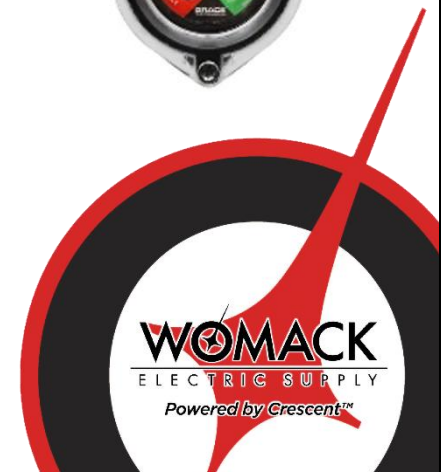
R-3W | Voltage Indicator with LEDs

Voltage indicator with Flashing LEDs



R-3MT-VI-KIT | ChekVolt®

Verify voltage presence and test for absence of voltage in one device. The ChekVolt kit comes with the ChekVolt device, clear cap and two labels (flange and horizontal) for flexible mounting options.



Safety Solutions

IDEM's Viper SCR-i Safety Relays with enhanced diagnostics are built to meet the latest safety standards and feature simplified wiring and improved LED diagnostics. This product line adheres to EN60204-1 guidelines for safety circuits and can be utilized with mechanical interlock guard switches, emergency stop switches, non-contact guard switches, or safety light curtains to achieve redundant monitoring and fault checking up to PLe/Cat4 ISO13849-1.



Safety Relays

IDEM Viper Safety Relays (Stand Alone), 24VAC/DC, with Manual or Automatic Reset, and Diagnostic LEDs, Single or Dual Channel outputs



Base Units Part Number	Description
SCR-21-i	Single or Dual Channel, 2NC/1NO Instant Output Contacts
SCR-31-i	Single or Dual Channel, 3NC/1NO Instant Output Contacts
SCR-73-i	Single or Dual Channel, 7NC/3NO Instant Output Contacts
SCR-31-42-TD-i	Dual Channel, 3NC/1NO Output and 4NC/2NO Time Delay Output, 0-30 Seconds

- Dual force guided relay output contacts -internally monitored.
- Up to PLe, Category 4
- Single or Dual Channel input with LED indication of input status
- Feedback loop for monitoring contactors
- Short circuit and earth fault monitoring
- DIN Rail Mounting – either 22mm or 44mm wide housings
- Automatic or Manual start

Expansion Units

Can be slave wired to any base unit to increase the output contacts.

Expansion Part Number	Description
SEU-31-i	3NC/1NO Instant Output Contacts
SEU-31TD-9	3NC/1NO Time Delay Output Contacts

Pilz Safety Relays

(Stand Alone), inputs: 1/2-channel wiring with/without detection of shorts across contacts, outputs: 3 N/O, 1 N/C, 1 SC, automatic/monitored start, width: 45 mm, screw terminals integrated, monitoring of E-STOP, safety gates.

PILZ
THE SPIRIT OF SAFETY

Part Number	Description
774310	UB 24 V AC/DC
774316	UB 120 V AC/24 V DC

PNOZ m CO Safety Controllers & Accessories

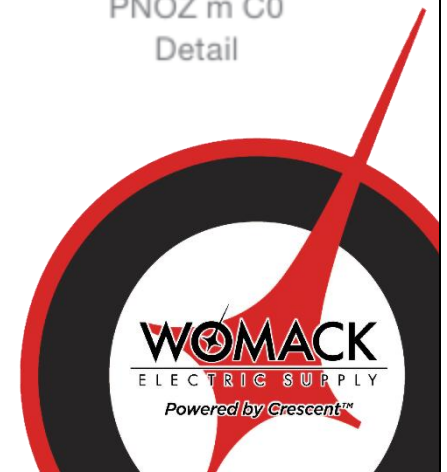
Part Number	Description
772105	Base Unit
751004	Plug-in Spring-loaded Terminals
750004	Plug-in Screw Terminals
312992	Mini USB Cable – 3m
312993	Mini USB Cable – 5m
779201	Chip Card (x1) – 8 kByte
779211	Chip Card (x1) – 32 kByte



PNOZ m CO
Detail

Safety for human and machine

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



Automation Systems



Emerson (PACEdge)	Description
UIPCA21E2HE0A	PACSystems IPC 2010, Dual-core w/ PACEdge
UIPCD41E2HE0A	PACSystems IPC 2010, Quad-core w/ PACEdge
YLB-UIPC-01-1	PACSystems USB-C to Display Port Cable
UIPC-WMC-4G-NA	PACSystems IPC 2010 Wi-Fi / Cellular Kit

IPC 2010

- Industrial-grade ARM Cortex-A53 CPU microprocessor (2 or 4 Cores at 1.2 GHz)
- Up to 4 GB DDR4-1600 memory
- Pre-loaded, pre-licensed Edge software, enabling customized data collection and aggregation, data protocol conversion, and basic analytics applications for real-time optimization control and visuals of operations.

* **Emerson is programmed via PAC Machine Edition Software**

The Emerson PACSystems RX3i PLC is an additional incredibly powerful Programmable Automation Controller (PAC) and features a single control engine and a universal programming environment to provide application portability across multiple hardware platforms. With integrated critical control platforms, logic, motion, HMI, process control and high availability based on our Reflective Memory technology, the RX3i provides the performance and flexibility to give you an advantage. * **Please contact Womack representative for selection support.**

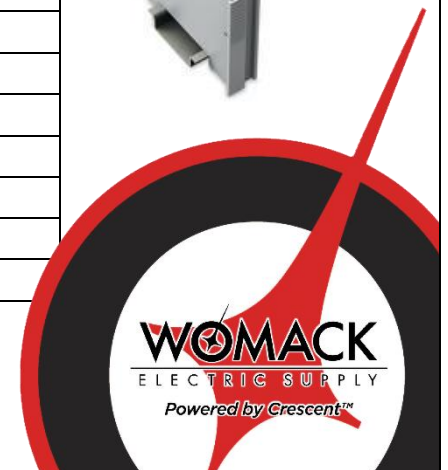
PLC Part Number	Description
750-8111 (good)	PFC 100 Compact PLC, 2 Ethernet Ports, 32 MB Program Size, Add On IO Modules
751-9402	Compact 100 PLC, 8DI, DI or O, 2 AI, 2AI or O, Ethernet Fieldbus



Remote IO Fieldbus Coupler	Description
750-362	Remote IO Fieldbus Coupler, Modbus TCP
750-363	Remote IO Fieldbus Coupler, Ethernet IP
750-377	Remote IO Fieldbus Coupler, ProfiNet



IO Modules	Description
750-430	24VDC HSS 8 Point Digital Input
750-436	0VDC LSS 8 Point Digital Input
750-530	24VDC HSS 8 Channel Digital Output 0.5A per point.
750-515	4 Channel Relay Output 2.0A 250VAC Form "A" Make Contacts.
750-496	8 Channel 0-20/4-20mA Analog Input Configurable
750-497	8 Channel 0-10/+10VDC Analog Input Configurable
750-451	8 Channel RTD Analog Input Module Adjustable
750-498	8 Channel Thermocouple Input Adjustable
750-597	8 Channel 0-10/+10VDC Analog Output
750-471	4 Channel Voltage / Current Analog Input Differential
750-564	4 Channel Voltage / Current Analog Output
750-563	4 Channel 0/4-20mA Analog Output Adjustable
750-600	End Module
750-602	Supply Module for Bus Couplers and ECO PLCs
750-613	System Supply Module
750-601	Fused Supply Module
750-1652	RS232/ RS485 Comms Module
750-1657	I/O Link Master 4 Channel



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

HMI & Visualization Solutions



Basic HMI

Red Lion (HMI)	Description
CR10000400000210	4.3" HMI, 1 RS232, 1 RS485, 1 Ethernet Port, 1 USB-B Port
CR10000700000210	7" HMI, 1 RS232, 1 RS485, 1 Ethernet Port, 1 USB-B Port
CR10001000000210	10.4" HMI, 1 RS232, 1 RS485, 1 Ethernet Port, 1 USB-B Port
CR30001500000420	15" HMI, 2 RS232, 2 RS485, 2 Ethernet Port, 2 USB-B Port

Red Lion Graphite® Series HMIs are rugged operator panels designed for harsh environments, featuring cast-aluminum construction, wide temperature ratings, and modular expansion slots for I/O, PID control, or communications. Available in 7" to 15" sizes (indoor/outdoor), they support protocol conversion, data logging, and web-based monitoring using **FREE Crimson® software**.



PAX® Panel Meters

PAX® provides the flagship – most popular, extremely versatile panel meters with the widest range of inputs in the industry for counting, timing, flow, rate and other control with network capability and unequalled flexibility. Fully field-upgradable with plug-and-play option cards. Supports digital, analog, thermocouple, strain gauge, and process inputs. Available in standard and large format displays.

Popular PAX® models include:

- PAXD – DC voltage/current input meter
- PAXP – Process input meter
- PAXI – Counter/rate meter
- PAXT – Thermocouple/RTD
- PAXH – AC true RMS meter
- PAXC / PAXCK – Counter, timer, real-time clock
- EPAX / MPAX – Large format displays



Movicon

Scale from Small IIoT to Full Plant Control and Monitoring

Modern industry depends on increasingly complex SCADA solutions that seamlessly integrate diverse systems and assets, often over wide geographic areas, and always maintaining robust cyber defenses. The Movicon industrial software platform delivers the next generation of SCADA/HMI connectivity and operability through modular, scalable and secure interfaces that help you optimize operations and efficiency from any location and any device.



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

Network Solutions

Ethernet Switches & Remote VPNs



Unmanaged Ethernet Switch	Description
LNX-500A	5-Port 10/100TX Slim Industrial Unmanaged Ethernet Switch
LNX-800A	8-Port 10/100TX Slim Industrial Unmanaged Ethernet Switch
LNX-1600A	16-Port 10/100TX Slim Industrial Unmanaged Ethernet Switch

Managed Ethernet Switch	Description
LMX-0500-V2	5-Port Industrial Light Layer 3 Managed Ethernet Switches w/5*10/100Tx - Version 2 Hardware
LMX-0800	8-Port Industrial Light Layer 3 Managed Ethernet Switch, w/8*10/100Tx Ports
LMX-1202M-SFP	12-Port Industrial Gigabit Light Layer 3 Managed Ethernet Switch w/8*10/100Tx + 2*10/100/1000Tx RJ45 + 2*100/1000 SFP Slots



Unmanaged Ethernet Switch	Description
105TX-SL	Unmanaged 5-Port Industrial Ethernet Switch
108TX-SL	Unmanaged 8-Port Industrial Ethernet Switch
NT-116	Unmanaged 16-Port Industrial Ethernet Switch

Managed Ethernet Switch	Description
NT5008	8-Port Gigabit Managed Industrial Ethernet Switch
NT5016	16-Port Gigabit Managed Industrial Ethernet Switch



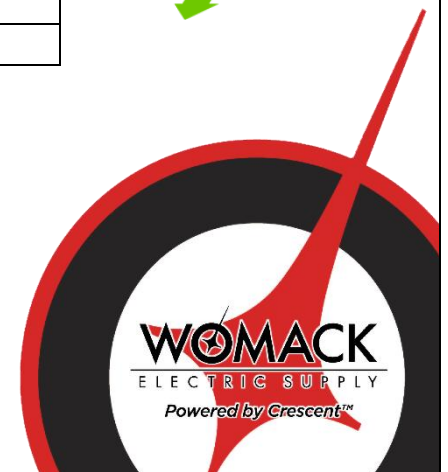
Remote Access Ewon Remote VPN

Remote VPN Part Number	Description
EC7133J_00MA	Remote VPN with Wi-Fi Connection
EC71330_00MA	Remote VPN with LAN Connection
EC7133K_01MA	Remote VPN with 4G Connection

Unmanaged Ethernet Switch	Description
853-111/000-001	5-Port ECO Switch
852-112/000-001	8-Port ECO Switch



As technology integrates more into infrastructure, the need for industrial networking equipment increases. Devices such as network switches play a pivotal role in the network design for industrial campuses. The key to an industrial network's success is the deployment of proper equipment in the proper places. Both managed and unmanaged ethernet switches bridge the gap that allows for proper operations and monitoring of advanced systems.













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Sensor Solutions

DATA SENSING

easing automation challenges

				
SR31 SR31 sensors fork with slot of 30mm width and 42mm depth is...	SRF SRF line includes 30, 50, 80 and 120mm fork sensors for...	TL50 TL50 contrast sensor is recommended where a cost reduction...	TLM TLM contrast sensors offer high resolution. White LED...	TL46 TL46 contrast sensor widest line with RGB LED from basic up...
				
LD46 LD46 is equipped with 5 UV high power LED emission and high...	S65-V S65-V sensor offers space saving in a standard compact...	S65-W S65-W sensor offers space saving in a standard compact...	DS3 DS3 light arrays are used to detect and/or measure objects...	DS2 DS2 light array is suggested for height or width...
				
SMART-VS™ The Smart Vision Sensor (VS) is a unique and very...	S5N S5N is the Datalogic new generation M18 sensor line with...	S51 S51 sensors offer best cost saving and the widest choice of...	S5 S5 standard M18 sensors with axial or radial optics...	S15 S15 tubular sensors with short barrel, in plastic or...
				
SL5 SL5 photoelectric sensor line offers through beam...	SMALL SM-all LINE offers the smallest photoelectric sensor with...	SM123 SERIES SM1 subminiature fixed focus, SM2 ultra-flat diffuse...	S100 The S100 Sensor basic line offers the most competitive...	S45 S45 line offers LED and Laser sensors in standard miniature...

EATON

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



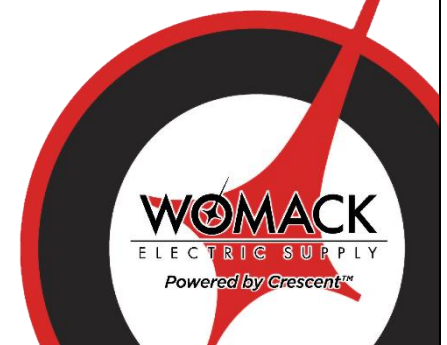
CONTRINEX

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.

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Don't forget the cord sets!



Motion Solutions



Industrial Robots for Multiple Applications



Arc Welding



Material Handling



Assembly



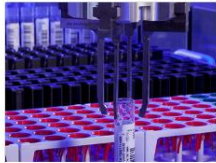
Paint & Dispensing



Picking & Packing



Palletizing



Clinical Lab



Spot Welding



Material Removal



Machine Tending



Logistics



Metal Forming

HC-Series Collaborative Robots for Flexible, Human-Centric Automation

Yaskawa's HC-Series collaborative robots are built to work directly alongside people, delivering industrial-grade performance with the flexibility modern manufacturers demand. With payload capacities from 10 to 30 kg and intuitive features like hand-guided teaching and Smart Pendant compatibility, these six-axis cobots simplify deployment and reconfiguration across a wide range of applications—from assembly, welding and machine tending to packaging and palletizing.



Keeping Things Moving



MOVI-C® Modular Automation System

Whether you want to implement simple or complex motion control applications: MOVI-C® offers you a complete automation system for end-to-end solutions from one manufacturer. Both single-axis and multi-axis applications can be individually combined depending on requirements.



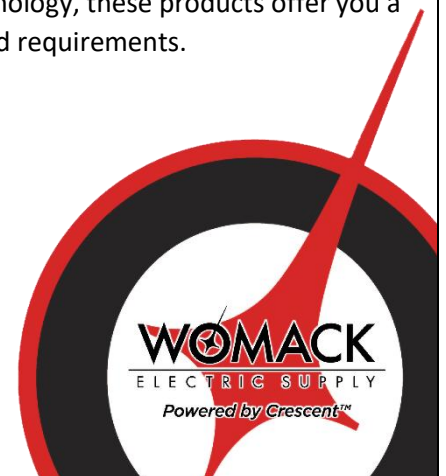
Germotors and Inverter Technology

Gear units, motors and germotors in many sizes and gear ratios. Optional versions such as stainless or explosion-proof models. In combination with our inverter technology, these products offer you a perfect drive solution – tailored to your individual applications and requirements.



ECDriveS®

Electronically communicated drive system for roller conveyor drive solutions. Optimized for lower power range conveyors in light load applications.



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EATON

WAGO[®]

IDEC

DATA SENSING
easing automation challenges

MENCOM
CORPORATION

PILZ
THE SPIRIT OF SAFETY

nvent
HOFFMAN

antaira[®]

YASKAWA

PANDUIT

GRACE
TECHNOLOGIES

BRADY[®]

MOTOMAN
a YASKAWA company

FEDERAL SIGNAL
Safety and Security Systems

SEW
EURODRIVE

Movicon.next[™]

EMERSON[™]

Bussmann[®]

IDEM SAFETY
Making Industry Safer

CEMBRE

ERICO[®]

WORLDWIDE
ELECTRIC CORPORATION

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