



SECTION



Motor Control

Motor Control

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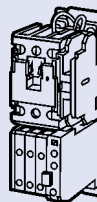
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NEMA 3-PHASE FREEDOM STARTERS



Solid State Overload

- Accelerated trip protects against phase loss
- Straight-through wiring
- Horizontal or vertical mounting
- Top located coil terminals convenient and readily accessible
- Size 1 and larger have encapsulated magnet coils



Bimetallic Overload

ENCLOSED STARTERS WITH SOLID STATE OVERLOAD RELAY NO HEATERS REQUIRED

- **No heater coils required**
- Broad Full Load Amps (FLA) range 0.33-1500 A
- Phase loss and selectable phase imbalance protection
- Selectable trip class with manual or auto reset
- Low energy consumption for cooler operation
- Available add on accessories like remote reset and communication modules - DeviceNet Profibus Modules

Vendor Code: **CHC**

Catalog Number	NEMA Size	Maximum HP		Trip Range	Price Each
		@230V	@460V		
120 VOLT COILS					
ECN05A1AAAR63B	00	1-1/2	2	1-5	661.38
ECN0501AAAR63C	0	3	5	4-20	636.03
ECN0511AAAR63C	1	7-1/2	10	4-20	713.09
ECN0511AAAR63D	1	7-1/2	10	9-45	832.45
ECN0521AAAR63D	2	15	25	9-45	1298.22
ECN0531AAAR63E	3	30	50	20-100	1994.47
ECN0541AAAR63F	4	50	100	20-140	5595.55
ECN0551AAAR63G	5	100	200	60-300	14363.81

Character (in Bold and Black) of Catalog Number Designates Coil Voltage.
A = 120V, B = 240V and C = 480V.

OPEN STARTERS WITH SOLID STATE OVERLOAD RELAY

Vendor Code: **CHC**

Catalog Number	NEMA Size	HP Rating		Trip Range	Price Each
		@230V	@460V		
120 VOLT COILS					
AN19AN0A5E005	00	1-1/2	2	1-5	424.02
AN19BN0A5E020	0	3	5	4-20	510.68
AN19DN0A5E020	1	7-1/2	10	4-20	592.29
AN19DN0A5E045	1	7-1/2	10	9-45	592.32
AN19GN0A5E045	2	15	25	9-45	1087.04
AN19KN0A5E100	3	30	50	20-100	1589.01
AN19NN0A5E140	4	50	100	20-140	4104.84
AN19SN0A5E300	5	100	200	60-300	9210.01

Character (in Bold and Black) of Catalog Number Designates Coil Voltage.
A = 120V, B = 240V and C = 480V.



ENCLOSED STARTERS WITH BIMETALLIC OVERLOAD RELAY

Vendor Code: **CHC**

Catalog Number	NEMA Size	Maximum HP		Overload Relay Size**	Price Each
		@230V	@460V		
NON-REVERSING STARTER IN NEMA TYPE 1 ENCLOSURE, 120V COIL					
ECN05A1AAA	00	1-1/2	2	32A	511.77
ECN0501AAA	0	3	5	32A	550.26
ECN0511AAA	1	7-1/2	10	75A	689.46
ECN0521AAA	2	15	25	75A	2172.87
ECN0531AAA	3	30	50	105A	2141.38
ECN0541AAA	4	50	100	144A	5521.96
REVERSING STARTER IN NEMA TYPE 1 ENCLOSURE, 120V COIL					
ECN0601AAA	0	3	5	32A	2036.77
ECN0611AAA	1	7-1/2	10	75A	2324.75

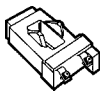
Available to NEMA Size 8.
Choose Heater Packs (Sold Separately) from Table Below.
Character (in Bold and Black) of Catalog Number Designates Coil Voltage.
A = 120V, B = 240V and C = 480V.

HEATER PACKS FOR OVERLOAD RELAYS INCLUDES THREE HEATERS

Vendor Code: **CHC**

For Use With NEMA Size	Overload Relay Size	Motor Full Load Ampere Rating				Includes 3 Heaters	
		Dial Positions				Catalog Number	Price Each
		A	B	C	D		
00 0 1 4	32A 75A	0.560	0.676	0.791	0.907	H2003B3	130.38
		0.814	0.983	1.15	1.32	H2004B3	130.38
		1.20	1.45	1.71	1.96	H2005B3	130.38
		1.79	2.16	2.53	2.90	H2006B3	130.38
		2.15	2.60	3.04	3.49	H2007B3	130.38
		3.23	3.90	4.56	5.23	H2008B3	130.38
		4.55	5.50	6.45	7.40	H2009B3	130.38
		6.75	8.17	9.58	11.0	H2010B3	130.38
		9.14	10.8	12.4	14.0	H2011B3	130.38
		14.0	16.9	19.9	22.8	H2012B3	130.38
		18.7	22.7	26.7	30.7	H2013B3	130.38
		23.5	28.5	33.5	38.5	H2014B3	130.38
2 3 4	75A 105A 144A	29.0	34.0	39.1	44.1	H2015B3	130.38
		39.6	45.5	51.5	57.4	H2016B3	130.38
		53.9	60.9	67.9	74.9	H2017B3	130.38
		18.0	20.2	22.3	24.5	H2018B3	130.41
		24.6	27.6	30.5	33.4	H2019B3	130.41
		33.5	37.5	41.5	45.6	H2020B3	130.38
		45.7	51.2	56.7	62.1	H2021B3	130.38
		62.2	69.7	77.1	84.6	H2022B3	130.38
		84.7	95.0	105.0	115.0	H2023B3	130.38
		106.0	118.0	131.0	144.0	H2024B3	130.38

"FREEDOM" SERIES MAGNETIC COILS

Vendor Code: **CHC**

Catalog Number	NEMA Size	Voltage @60Hz	Price Each
928751	00	120	396.14
928752	00	240	396.14
928753	00	480	396.14
928761	0	120	396.14
928762	0	240	396.14
928763	0	480	396.14
932856	1-2	24	410.16
932851	1-2	120	454.07
932852	1-2	240	463.82
927033	1-2	480	442.41
927566	3	24	757.20
927561	3	120	757.20
927562	3	240	757.20
927563	3	480	757.20
9189115	4-5	24	869.36
918911	4-5	120	769.81
918913	4-5	480	769.81

OVERLOAD RELAYS

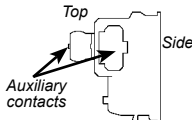
Vendor Code: **CHC**

Catalog Number	For NEMA Size Contactors	Overload Relay Size	Max. Amps	Price Each
WITHOUT HEATER PACKS*				
C306DN3B	00 - 0, 5 and Above**	32A	32	304.07
C306GN3B	1-2	75A	75	519.72
C306KN3	3	105A	105	733.86
C306NN3	4	144A	144	1010.05

*Choose Heater Packs for Overload Relay (Sold Separately) from Table on Page H3 to Complete.

**NEMA Contactors Size 5 and Above Use a 32A Overload Relay, in Conjunction with a Current Transformer.

AUXILIARY CONTACTS

Vendor Code: **CHC**

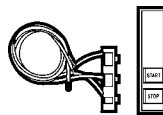
Catalog Number	For NEMA Size Contactors	Mounting Position	Contacts	Price Each
C320KGS1	00-2	Side	1 NO	78.18
C320KGS2	00-2	Side	1 NC	78.18
C320KGS3	00-2	Side	1 NO, 1 NC	88.92
C320KGS4	00-2	Side	2 NO	88.92
C320KGT1	00-2	Top	1 NO	96.47
C320KGT2	00-2	Top	1 NC	88.92
C320KGT3	00-2	Top	1 NO, 1 NC	88.92
C320KGT4	00-2	Top	2 NO	88.92
C320KGS20	3-5	Side	1 NO	130.60
C320KGS21	3-5	Side	1 NC	130.60
C320KGS22	3-5	Side	1 NO, 1 NC	177.90

"FREEDOM" SERIES CONTACT KITS

Vendor Code: **CHC**

Catalog Number	NEMA Size	Price Each
THREE POLE		
6652	1	585.53
6658	2	1019.66
6436	3	1651.54
6442	4	3541.70
6452	5	5981.85

COVER CONTROL KITS

Vendor Code: **CHC**

Catalog Number	NEMA Size	Description	Price Each
C400GK1	00 - 4	Start / Stop Pushbuttons	197.80
C400GK3	00 - 4	H-0-A Selector Switch	197.80

MECHANICAL INTERLOCK KIT

Vendor Code: **CHC**

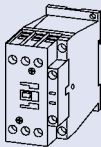
Catalog Number	NEMA Size	Description	Price Each
C321KM60B	00 - 2	Mechanical Interlock Kit	39.22

REVERSING DRUM SWITCH 1 OR 3 PHASE

Vendor Code: **CHC**

	Maximum HP				Price Each
	Single Phase		Three Phase		
Catalog Number	@115V	@230V	@230V	@460V	
FIELD CONVERTIBLE, MAINTAINED OR MOMENTARY					
9441H268	1-1/2	2	2	2	324.29





IEC 3-PHASE XT SERIES CONTACTORS & STARTERS

Eaton's new line of XT Contactors and Starters include non-reversing and reversing contactors, overload relays and a variety of related accessories. Because XT meets IEC, UL, CSA, CCE and CE standards, it is the perfect product solution for IEC applications all over the world. The compact, space saving, and easy to install XT line of IEC contactors and starters is the efficient and effective solution for your application from 7A to 2000A.

- AC control from 12V to 600V 50/60Hz
- DC control from 12V to 220V
- Available with screw or spring cage terminals
- Reversing or non-reversing contactors and starters
- AC-3 contactor ratings to 1000A

- Non-Reversing starters to 650A
- Panel or DIN rail mounting to 65A
- IP20 finger and back-of-hand proof
- Built-in NO or NC auxiliary contacts to 32A
- Available with XTOB bimetallic or XTOE solid-state overload relay
- Phase failure or phase unbalance protection

THREE PHASE CONTACTORS OPEN TYPE NON-REVERSING

Vendor Code: **CHC**

Catalog Number	Frame Size	Amps AC-3	Max. HP (UL/CSA)		Auxiliary Contacts	Price Each
			@230V	@460V		
XTCE009B10A	B	9	3	5	1NO	97.46
XTCE012B10A	B	12	3	10	1NO	311.18
XTCE015B10A	B	15	5	10	1NO	130.15
XTCE025C10A	C	25	10	15	1N	162.18
XTCE032C10A	C	32	10	20	1NO	202.76
XTCE065DS1A	D	65	25	50	1NO SIDE	323.90
XTCE072DS1A	D	72	25	50	1NO SIDE	606.04
XTCE080FS1A	F	80	30	60	1NO SIDE	371.98
XTCE095FS1A	F	95	40	75	1NO SIDE	472.06
XTCE115GS1A	G	115	50	100	1NO SIDE	577.23
XTCE150GS1A	G	150	50	100	1NO SIDE	894.29
XTCE170G1A	G	170	60	125	1NO SIDE	1782.26
XTCE185H22A	H	185	60	125	2NO 2NC TOP	1238.79
XTCE225H22A	H	225	75	150	2NO 2NC TOP	1387.29
XTCE250L22A	L	250	100	200	2NO 2NC TOP	3946.16
XTCE300L22A	L	300	125	250	2NO 2NC TOP	4265.13

AC-3: Squirrel-Cage Motors; Starting or Switching of Motors While Running.
Catalog Numbers Listed Above have 120V Coil Voltage (A).
Replace A with B for 240V, C for 480V, or T for 24V.

ELECTRONIC OVERLOADS

Vendor Code: **CHC**

Catalog Number	Frame Size	Adjustable FLA Range	Price Each
XTOE005BCS	B	1 - 5A	97.55
XTOE020BCS	B	4 - 20A	97.55
XTOE020CCS	C	4 - 20A	96.18
XTOE045CCS	C	9 - 45A	109.28
XTOE045DCS	D	9 - 45A	140.00
XTOE100DCS	D	20 - 100A	177.76
XTOE175GCS	G-H	35 - 175A	755.37

Mount Directly to Contactor
All Overloads Have 1NO and 1NC Contact

REPLACEMENT COILS

Vendor Code: **CHC**

Catalog Number	Frame	Voltage	Price Each
XTCERENC0ILCA	C	120V	284.36
XTCERENC0ILDA	D	120V	362.70
XTCERENC0ILFA	F	120V	463.59
XTCERENC0ILGA	G	120V	758.28
XTCERENC0ILHA	H	120V	505.48
XTCERENC0ILLA	L	120V	2210.93

Character (in Black) of Catalog Number Designates Voltage.
Catalog Numbers Listed Above have 120V Coil Voltage (A).
Replace A with B for 240V, or C for 480V.

BI-METAL OVERLOADS

Vendor Code: **CHC**

Catalog Number	Frame Size	Adjustable Range	Price Each
XTOB004BC1	B	2.4 - 4	70.74
XTOB006BC1	B	4 - 6	70.74
XTOB010BC1	B	6 - 10	70.74
XTOB012BC1	B	9 - 12	70.74
XTOB016BC1	B	12 - 16	76.47
XTOB016CC1	C	10 - 16	142.33
XTOB024CC1	C	16 - 24	75.33
XTOB032CC1	C	24 - 32	84.74
XTOB040DC1	D	24 - 40	116.89
XTOB057DC1	D	40 - 57	122.45
XTOB065DC1	D	50 - 65	122.45
XTOB050GC1	F, G	35 - 50	493.26
XTOB070GC1	F, G	50 - 70	186.52
XTOB100GC1	F, G	70 - 100	180.94
XTOB125GC1	F, G	95 - 125	731.50
XTOB150GC1	F, G	120 - 150	246.19
XTOB175GC1	F, G	145 - 175	285.24
XTOB160HC1	H	120 - 160	867.41
XTOB220HC1	H	160 - 220	867.41
XTOB250HC1	H	200 - 250	867.41
XTOB160LC1	L	120 - 160	996.58
XTOB220LC1	L	160 - 220	1068.74
XTOB250LC1	L	200 - 250	519.06
XTOB300LC1	L	200 - 300	1137.50

All Are Direct Mount Except for Frames H and L
All Overloads Have 1NO and 1NC Contact

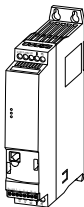
AUXILIARY CONTACTS

Vendor Code: **CHC**

Catalog Number	Frame Size	Contacts	Mounting	Price Each
XTCEXSAB10	B	1NO	Side Mount	17.35
XTCEXSAB01	B	1NC	Side Mount	47.95
XTCEXS011	C	1NO 1NC	Side Mount	87.57
XTCEXSBN11	D-H	1NO 1NC	Side Mount	50.69
XTCEXSBR11	L-R	1NO 1NC	Side Mount	98.23
XTCEXFATC20	B-C	2NO	Top Mount	57.85
XTCEXFATC11	B-C	1NO 1NC	Top Mount	57.85
XTCEXFATC02	B-C	2NC	Top Mount	57.85

Other Configurations Available

VARIABLE SPEED STARTERS

POWERXL SERIES
- DE1, 1/2 - 10HP

Eaton's DE1 variable speed starter (VSS) is a device that offers the user friendly and ease of use of a start and the adjustable frequency of a drive. The DE1 is the market's first VSS designed for basic motor controlling applications in a slim footprint for high density enclosures.

- Simplistic, cost effective design with no keypad
- 2 frame sizes in 45mm and 90mm widths
- Modbus on board
- Smartwire-DT connectivity
- Intuitive configuration module to change up to 5 parameters
 - Motor current
 - Motor frequency
 - Control terminal configuration
 - Fixed frequency
 - Ramp time
- Connectivity with drivesConnect PC Tool with PC Cable or Bluetooth module
- Overload rating: 150% constant torque for 60 seconds.

Vendor Code: **CHC**

Catalog Number	Constant Torque HP	Frame Size	Price Each
230V, SINGLE PHASE TO THREE PHASE			
DE1124D3NNN20N	1	1	284.10
DE1127D0NNN20N	2	1	347.69
DE1129D6NNN20N	3	2	405.31
460V, THREE PHASE			
DE1345D0NNN20N	3	2	487.99
DE1348D5NNN20N	5	2	524.43
DE134011NNN20N	7.5	2	757.29
DE134016NNN20N	10	2	888.42
ACCESSORIES			
DXEEXTSET	Config. Module		83.11
DXC0MSTICK3	Bluetooth Stick		298.76

ADJUSTABLE
FREQUENCY DRIVESPOWERXL SERIES—DC1, 1/2 - 15HP,
1/2 - 15HP 240V, 1 - 30HP 480V

Eaton's DC1 adjustable frequency drives are engineered for today's OEM and MRO applications. This series of drives offers a compact space saving design that is perfect for panel builders or as a replacement for across the line motor starters.

- 14 basic programming parameters for quick commissioning
- Brake chopper standard in frames 2 and higher
- SmartWire-DT™ connectivity
- Available in IP20 or IP66 configuration
- Overload rating:
 - 150% constant torque (IL) for 60 seconds
- Standard Communications:
 - RS-485/Modbus® and CANopen™
- Coated boards
- Integrated PI Controller

Vendor Code: **CHC**

Catalog Number	Constant Torque HP	Frame Size	Price Each
230V, SINGLE PHASE IN - THREE PHASE OUT			
DC1127D0NBA20CE1	2	2	541.80
DC112011NBA20CE1	3	2	565.51
DC112015NBA20CE1	5	3	939.83
230V, THREE PHASE			
DC1327D0NBA20CE1	2	2	524.36
DC132011NBA20CE1	3	2	556.90
DC132018NBA20CE1	5	3	1090.30
DC132030NBA20CE1	10	4	1477.54
DC132046NBA20CE1	15	4	1597.89
460V, THREE PHASE			
DC1344D1NBA20CE1	2	2	495.87
DC1345D8NBA20CE1	3	2	638.01
DC1349D5NBA20CE1	5	2	800.88
DC134014NBA20CE1	7.5	3	1150.54
DC134018NBA20CE1	10	3	1349.59
DC134024NBA20CE1	15	3	1437.31
DC134030NBA20CE1	20	4	1667.29
DC134039NBA20CE1	25	4	2172.98
DC134046NBA20CE1	30	4	2261.33

Models Shown are IP20 Configuration.
IP66 Configurations also Available.

ADJUSTABLE
FREQUENCY DRIVES

POWERXL SERIES—DG1, 3/4 - 200HP



The DG1 general purpose drives are part of Eaton's next generation of adjustable frequency drives. Robust and highly modular, these drives can be flexibly adapted to meet most customers' needs.

- Graphic LCD display and keypad
- Quick start wizard upon initial power-up supports fast, easy installation
- Standard applications: Standard, Multi-pump and fan control, Multi-PID and Multi-purpose
- Brake chopper standard
- Dual overload ratings: 110% variable torque (IL), 150% constant torque (IL)
- Standard I/O: 8DI, 1DO, 2AI, 2AO, Three Relays
- Communications:
 - EtherNet/IP, Modbus TCP
 - RS-485: Modbus RTU, BACnet MS/TP
- Available through 1,000 HP
- Coated Boards Standard

Vendor Code: **CHC**

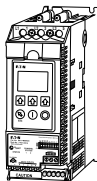
Catalog Number	Constant Torque HP	Variable Torque HP	Price Each
THREE PHASE, 208-240 VOLT			
DG1327D8FBC21C	2	3	1256.12
DG132011FBC21C	3	3	1361.62
DG132012FBC21C	4	5	1453.66
DG132017FBC21C	5	7.5	1685.80
DG132025FBC21C	7.5	10	1896.03
DG132031FBC21C	10	15	2183.84
DG132048FBC21C	15	20	2717.41
DG132061FNC21C	20	25	3781.03
THREE PHASE, 380-500 VOLT			
DG1344D3FBC21C	2	3	1394.58
DG1345D6FBC21C	3	5	1489.97
DG1347D6FBC21C	5	6	1814.11
DG134012FBC21C	7.5	10	2013.35
DG134016FBC21C	10	15	2157.67
DG134023FBC21C	15	20	2507.99
DG134031FBC21C	20	25	3418.91
DG134038FBC21C	25	30	3805.55
DG134046FBC21C	30	40	4655.59
DG134061FNC21C	40	50	6044.26
DG134072FNC21C	50	60	6576.07
DG134087FNC21C	60	75	7905.67
DG134105FNC21C	75	100	9695.32
DG134140FNC21C	100	125	12134.98
DG134170FNC21C	125	150	13426.55

Bold "B" Denotes Models with Build in Brake Chopper

EAT•N

SOFT STARTERS

S811+ SERIES — 10 - 700HP



Eaton's line of S811+ Soft Starters is compact, multi-functional, and easy to install. Designed to control acceleration and deceleration of three-phase motors up to 690V, the line is available from 11A to 1000A. S811+ series soft starters include Digital Interface Module that allows user to configure device and may be removed for remote mounting if necessary.

- Variable ramp times and torque control settings provide unlimited starting and stopping configurations for maximum flexibility
- Wide range of overload settings (31%-100% of rated current) and selectable trip class (5-30)
- Removable Digital Interface Module may be remote mounted or used to copy programming between units
- 24Vdc control voltage for operator safety
- Built in motor overload protection included. All protective features can be configured, enabled or disabled to meet any application
- Modbus RTU communications is standard but may connect to a variety of communications networks including:
 - DeviceNet
 - Modbus TCP
 - EtherNet/IP
 - PROFIBUS

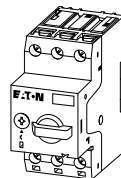
Vendor Code: **CHC**

Catalog Number	Frame Size	HP Rating		Price Each
		@230V	@460V	
STANDARD DUTY - 15 SEC. RAMP, 300% CURRENT LIMIT @ 40°C, 1.0SF				
S811+N37N3S	N	10	25	5072.22
S811+N66N3S	N	20	50	4508.02
S811+R10N3S	R	30	60	7445.19
S811+R13N3S	R	40	75	9253.87
S811+T18N3S	T	60	125	9643.64
S811+T24N3S	T	75	150	10274.66
S811+T30N3S	T	100	200	15613.88
S811+V36N3S	V	125	250	13570.61
S811+V42N3S	V	150	300	15253.95
S811+V65N3S	V	200	450	18460.25
S811+V72N3S	V	250	500	26833.34

Requires 24Vdc Power Supply: **Page H20**
 Sizes Available up to 700hp at 575V

IEC MANUAL MOTOR STARTERS

XT SERIES

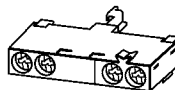


Vendor Code: **CHC**

Catalog Number	Frame Size	Adjustable FLA Range*	Maximum HP, 3-Phase		Price Each
			@230V	@460V	
XTPR2P5BC1	B	1.6 – 2.5	1/2	1	125.68
XTPR004BC1	B	2.5 – 4.0	1	2	125.68
XTPR6P3BC1	B	4.0 – 6.3	1-1/2	3	125.68
XTPR010BC1	B	6.3 – 10.0	3	7-1/2	225.80
XTPR020BC1	B	16 – 20	5	10	322.37
XTPR025BC1	B	20 – 25	7-1/2	15	171.55

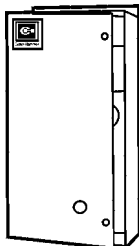
*Service Factor Less Than 1.15, Multiply 0.9 by Nameplate FLA.
 Products listed above have Rotary style handles. Replace Character (in **Bold and Black**) of Catalog Number with **B** for Pushbutton Manual Motor Starter.

AUXILIARY CONTACTS FOR XT SERIES MANUAL MOTOR STARTERS



Vendor Code: **CHC**

Catalog Number	Mounting Position	Auxiliary Contacts	Price Each
XTPAXFA11	Front Mount	1 NO, 1 NC	22.16

FUSIBLE NEMA TYPE 3R ENCLOSURE
PUMP PANELS

- Solid State Overload
- Reduces cost - No heater coils required
- Broad Full Load Amps (FLA) range 0.33-1500 A
- Phase loss and selectable phase imbalance protection
- Selectable trip class with manual or auto reset
- Low energy consumption for cooler operation
- Available add on accessories like remote reset and communication modules - DeviceNet Profibus Modules

Vendor Code: **CHC**

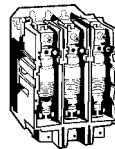
	NEMA Size	Maximum HP		Adj. Solid State Overload Relay	Price Each
Catalog Number		@230V	@460V	(Amps)	
HOA, NO PB, NARROW, WITHOUT FUSE CLIPS					
ECN5412AACP6R63C	1	7-1/2	10	4.0 – 20	3687.32
ECN5422AAEP6R63D	2	15	25	9.0 – 45	5062.60
ECN5432AAGP6R63E	3	30	50	20.0 – 100	7295.49
ECN5442AAJP6R63F	4	50	100	60 – 300	13372.50
ECN5452AALP6R63G	5	100	200	60 – 300	28280.08
HOA, PB, STANDARD WIDTH, WITHOUT FUSE CLIPS					
ECN5412CACR63C	1	7-1/2	10	4.0 – 20	502.96
ECN5422CAER63D	2	15	25	9.0 – 45	684.02
ECN5432CAGR63E	3	30	50	22.0 – 100	939.98
ECN5442CAJR63F	4	50	100	60 – 300	1881.25
ECN5452CALR63G	5	100	200	60 – 300	3380.90
HOA, NO PB, VACUUM CONTACTORS, WITHOUT FUSE CLIPS					
ECV5442AAJP6R63F	4	50	100	30.0 – 150.0	21013.53
ECV5452AALP6R63G	5	100	200	1.0 – 5.0	6286.00

Character (in Bold and Black) of Catalog Number Designates Coil Voltage.

A = 120V, **B** = 240V and **C** = 480V.

Choose Fuse Clips (Sold Separately) from Table to the Right.

VACUUM CONTACTORS

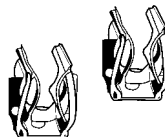


- Contacts located inside sealed ceramic tubes for intrinsically safe protection.
- Arc is extinguished when passing through zero for excellent contact life.

Vendor Code: **CHC**

Catalog Number	NEMA Size	Volts	Amps	Price Each
VACUUM CONTACTORS				
V201K4CJ	4	120	135	9125.86
V201K5CJZ1	5	120	270	18275.50
SIZE 4-8 SOLID STATE OVERLOAD RELAY				
C440A1A005SAX	4 - 8	Requires Transformer Kit (Below)		200.98
ZBXCT300	4 - 8	Current Transformer Kit		1271.40

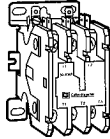
FUSE CLIPS

Vendor Code: **CHC**

For Use with NEMA Starter Size	Motor Volts	Fuse Size Amps / Volts	Catalog Number	Price Each
1	200 / 230	30 / 250	C351KC21R	43.60
	460 / 575	30 / 600	C351KD2261R	66.52
2	200 / 230	60 / 250	C351KD2261R	66.52
	460 / 575	60 / 600	C351KD62R	61.02
3	200 / 230	100 / 250	C351KE2363	165.57
	460 / 575	100 / 600	C351KE2363	165.57
4	200 / 230	200 / 250	C351KF2464	252.45
	460 / 575	200 / 600	C351KF2464	252.45

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DEFINITE PURPOSE CONTACTORS C25 SERIES


Vendor Code: **CHC**

Catalog Number	Inductive Amps	Resistive Amps	Price Each
TWO-POLE, 120V COIL			
C25BNB230A**	30**	40	53.19
C25DND230A	30	40	109.89
C25DNF240A	40	50	141.66
C25FNF260A	60	75	228.77
THREE-POLE, 120V COIL			
C25DND330A	30	40	126.80
C25DNF340A	40	50	164.31
C25FNF350A	50	65	270.48
C25FNF360A	60	75	219.64
FOUR-POLE, 120V COIL			
C25END430A	30	40	116.06
C25ENF440A	40	50	145.58

Character (in Bold and Black) of Catalog Number Designates Coil Voltage.
A = 120V, **T** = 24V,
B = 240V, **C** = 480V, and **H** = 277V.
 **Coil Cannot be Changed.

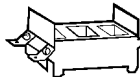
ACCESSORIES FOR C25 SERIES AUXILIARY CONTACTS AND INTERLOCKS

Vendor Code: **CHC**

Catalog Number	Description	Price Each
AUXILIARY CONTACTS*		
C320KG1	1 NO Auxiliary Contact	26.00
C320KG2	1 NC Auxiliary Contact	26.00
C320KG3	1 NO, 1 NC Auxiliary Contact	37.84
MECHANICAL INTERLOCK KIT		
C321KM60B	For Reversing Applications	39.22

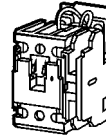
*Auxiliary Contacts Not Designed to Fit C25BNB Contactors.

REPLACEMENT COILS


Vendor Code: **CHC**

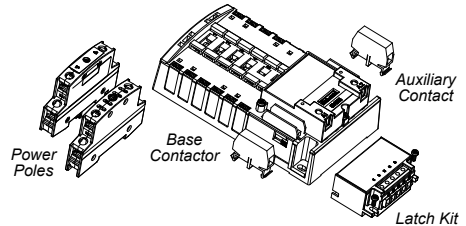
Catalog Number	Voltage	Price Each
FOR 30 – 40 AMP CONTACTORS		
931256	24	203.20
931251	120	203.20
931252	240	203.20
931253	480	203.20
FOR 40 – 60 AMP CONTACTORS		
932561	120	229.59
932562	208 – 240	229.59

LIGHTING CONTACTORS ELECTRICALLY HELD CN35 SERIES


Vendor Code: **CHC**

Catalog Number	Amps	Poles	Price Each
120V AC COIL, OPEN			
CN35BN2AB	20	2	798.50
CN35BN3AB	20	3	893.40
CN35DN2AB	30	2	949.74
CN35DN3AB	30	3	1069.44

MECHANICALLY HELD

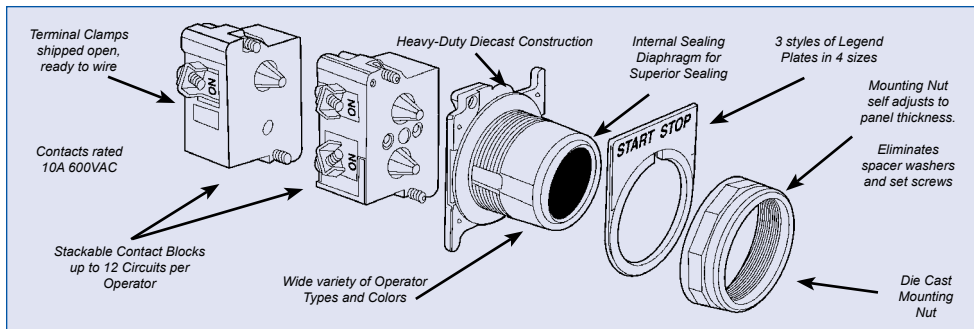

Vendor Code: **CHC**

Catalog Number	Description	Price Each
BASE CONTACTORS*		
C30CNE20A0	2 NO, 120V AC Base	578.14
LATCH KITS**		
C320MH3WA0	Three Wire Latch Kit	335.76
POWER POLES		
C320PRP1	Single Pole, 30A	329.84
C320PRP2	Two Pole, 30A	291.50
AUXILIARY CONTACTS		
C320AMH1	Single Pole Auxiliary Contact	62.45
C320AMH2	Two Pole Auxiliary Contact	180.23

*Base Contactor is Electrically Operated.

**Latch Kit is Required to be Mechanically Held up to 12 Poles Maximum.

30mm Full Size Operators NEMA Rated Types 1, 2, 3, 3R, 4, 4X, 12 and 13



PUSHBUTTON AND INDICATOR LIGHT ASSEMBLIES

Vendor Code: **CHC**

Catalog Number	Description	Price Each
NON-ILLUMINATED PUSHBUTTON ASSEMBLIES		
10250T31RP0P	Extended Red Pushbutton	133.05
10250T30BP0P	Flush Black Pushbutton	140.03
10250T5B621P0P	Red Push-Pull	197.20
10250T32RP0P	Red Mushroom Pushbutton	216.54
10250T33P0P	Red Jumbo Mushroom Pushbutton	215.75

SELECTOR SWITCH ASSEMBLED

10250T20KBP0P	2-Position Maintained Black Selector Switch	159.47
10250T21KBP0P	3-Position Maintained Black HOA Selector Switch	156.42

INDICATING LIGHTS ASSEMBLIES

10250T206NC1NP0P	24 Volt Red, Green & Amber Lenses	380.07
10250T34RP0P	120 Volt Red, Green & Amber Lenses	266.73

ILLUMINATED PUSHBUTTON ASSEMBLIES

10250T476C211P0P	24V Red Pushbutton, Green & Amber Lenses	488.46
10250T411C211P0P	120V Red Pushbutton, Green & Yellow Lenses	543.40

Contact Blocks and Legend Plates Included Where Required

OIL-TIGHT PUSHBUTTON OPERATORS

Vendor Code: **CHC**

Catalog Number	Button Color	Price Each
FLUSH BUTTON		
10250T101	Black	68.59
10250T102	Red	68.59
10250T103	Green	68.59
EXTENDED BUTTON		
10250T111	Black	68.59
10250T112	Red	68.59
MUSHROOM HEAD		
10250T121	Black	130.49
10250T122	Red	124.41
10250T123	Green	130.49
JUMBO MUSHROOM HEAD		
10250T172	Red	156.42

OIL-TIGHT STANDARD INDICATING LIGHTS

Vendor Code: **CHC**

Catalog Number	Volts	Price Each
TRANSFORMER TYPE		
10250T181L	120	242.49
10250T181N	120	243.29
10250T182N	240	251.99
10250T184N	480	251.98

OIL-TIGHT SELECTOR SWITCHES

Vendor Code: **CHC**

Catalog Number	Cam Code	Price Each
2-POSITION MAINTAINED		
10250T1311	1	90.55
3-POSITION MAINTAINED		
10250T1322	2	94.26
10250T1323	3	90.55

See Selector Switch Cam and Contact Block Selection on Right.

CONTACT BLOCKS

Vendor Code: **CHC**

Catalog Number	Circuits	Price Each
PRESSURE TERMINALS		
10250T51C	1 NC	42.91
10250T53C	1NO	37.17
10250T1C	1 NO - 1 NC	59.44
10250T2C	2 NO	54.68
10250T3C	2 NC	75.71

LENS

Vendor Code: **CHC**

Catalog Number	Color	Price Each
STANDARD PLASTIC LENS		
10250TC1N	Red	15.66
10250TC2N	Green	15.66

EATON

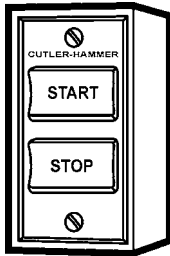
SELECTOR SWITCH CAM CODE AND CONTACT BLOCK SELECTION

Circuit of Contact Block 10250	CAM Code #1	CAM Code #2	CAM Code #3
Knob Position			
NORMAL - T1			
NC A	O	X	O
NO B	O	X	O
INVERTED - T1			
NO A	X	O	X
NC B	X	O	X
T2 (TYPICAL HAND-OFF-AUTO CIRCUIT)			
NO A	X	O	X
NO B	O	X	O
T3			
NC A	O	X	O
NC B	X	O	X

O = Open Contacts, X = Closed Contacts, Shown With Two Circuit Contact Blocks.

"Circuit A" = Top Contact; "Circuit B" = Bottom Contact

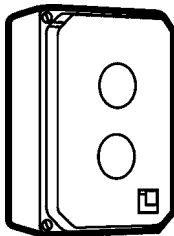
NEMA STANDARD DUTY PUSHBUTTON STATIONS


Vendor Code: **CHC**

Catalog Number	Standard Legend	Price Each
TWO PUSHBUTTONS - NEMA 1		
10250H5200	Start - Stop	272.05
TWO PUSHBUTTONS - NEMA 3R		
10250H671	Star - Stop	988.05
THREE PUSHBUTTONS - NEMA 1		
10250H5300	Forward - Reverse - Stop	550.04

OIL-TIGHT ENCLOSURES FOR FULL SIZE OPERATORS

NEMA TYPE 4, 4X, 12 & 13


Vendor Code: **CHC**

Catalog Number	Number of Elements	Price Each
TWO - CONTACT BLOCK DEPTH		
10250TN11	1	226.15
10250TN12	2	236.99
10250TN13	3	279.74

STANDARD LEGEND PLATES FOR PUSHBUTTON AND INDICATING LIGHTS



- The legend plates listed below are sized for all standard commercial enclosures and Eaton's cast enclosures.
- Letters on legend plates below are 3/16" high.

Vendor Code: **CHC**

Catalog Number	Label	Price Each
10250TM12	Down	12.51
10250TM13*	Emergency Stop	9.37
10250TM15	Forward	12.51
10250TM24*	Off	12.51
10250TM25	On	12.51
10250TM29	Reset	9.37
10250TM30	Reverse	12.51
10250TM33	Start	9.06
10250TM34*	Stop	9.06

*Red Field, All Others Have Black Field

LEGEND PLATES FOR SELECTOR SWITCH



- Lettering on 2-position legend plates are 5/32" high.
- Lettering on 3-position legend plates are 1/8" high.

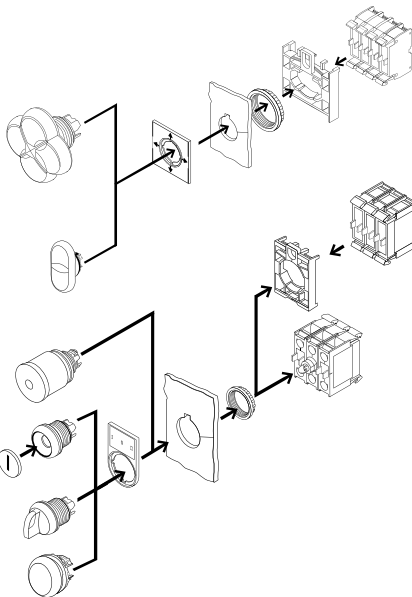
Vendor Code: **CHC**

Catalog Number	Label	Positions	Price Each
10250TM36	Blank	n/a	9.06
10250TM37*	Blank	n/a	12.51
10250TM42	Off/On	2	9.06
10250TM47	Start/Stop	2	12.51
10250TM49	Auto/Off/Hand	3	12.51
10250TM51	Hand/Off/Automatic	3	9.06
10250TM54	Up/Off/Down	3	12.51
10250TM67	Manual/Automatic	2	12.51
10250TM68	Manual/Off/Automatic	3	12.51

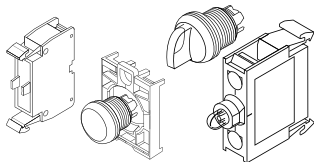
*Red Field, All Others Have Black Field

Eaton's M22 industrial heavy duty pushbutton line offers a wide array of functional, attractive and ergonomically designed illuminated and non-illuminated pushbuttons, selector-switches, push-pulls, alternate action and twist-to release operators.

- Modular construction makes assembly fast and simplifies stocking of components and complete devices
- Field convertibility of operator status for pushbuttons and selector switches helps customers reduce inventory and increase functionality
- LED offering only for improved brightness quality and up to 100,000 hours of operation
- Plastic construction is corrosion resistant. Operators are designed for rugged environments, ideal for washdown applications. Rated NEMA 4X/13 on front of panel operators.
- Anti-rotation tab saves installation time and prevents operator rotation
- High mechanical and electrical life allows for use in tough and challenging applications
- Laser inscription capabilities allow for high quality, wear-resistant markings
- All normally closed (NC) contacts are Direct Opening Action, i.e., NC contacts are physically forced open by direct linkage with the pushbutton operator in the unlikely event of contact weld
- Most pushbutton operators and contact blocks exceed 5 million mechanical operations
- Contact blocks rated for 10A 600V
- Can fit in ½" knockout



PUSHBUTTON & INDICATING LIGHT ASSEMBLIES



- Includes necessary operator, contactor blocks and mount

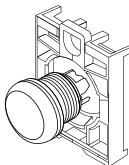
Vendor Code: **CHC**

Catalog Number	Description	Contact Blocks	Price Each
NON-ILLUMINATED PUSHBUTTON, MOMENTARY*			
M22DSK11P	Black Flush	1NO-1NC	41.15
M22DHRK11P	Red Extended	1NO-1NC	42.69
ILL. LED PUSHBUTTON 85-246V, MOMENTARY*			
M22DLHRK11230RP	Red Extended	1NO-1NC	85.40
M22PVLK12230RP	Red Push-Pull E-Stop	1NO-2NC	88.18
LED INDICATING LIGHTS 85-264V			
M22LR230RP	Red	-	15.16
M22LG230GP	Green	-	51.48
SELECTOR SWITCHES, MAINTAINED**			
M22WKVK11P	2-Pos. Maint.	1NO-1NC	55.19
M22WK3K22P	3-Pos. Maint.	2NO-2NC	72.31

*Field-Convertible (Maintained to Momentary) Pushbuttons are Available.

**Selector Switches are Field Convertible from Momentary to Maintained by Adding Coding Adapter(s) Listed on Page H13.

NON-ILLUMINATED PUSHBUTTON OPERATORS MAINTAINED/MOMENTARY



Vendor Code: **CHC**

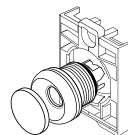
Catalog Number	Description	Price Each
BLANK OPERATORS WITH BUTTON COVERS*		
M22DRXSRG**	Flush with Black/Red/Green	17.27
M22DRHXSRRG**	Extended with Black/Red/Green	21.07
BUTTON COVERS***		
M22XDSWRGYB	Flush Button Covers*	8.38
MUSHROOM HEAD*		
M22DRPS**	Black	59.40
M22DRPR**	Red	59.40
M22DRPG**	Green	61.94
E-STOP OPERATOR*		
M22PV	Red, Pull-to-Release	23.42

*Includes Contact Block Mounting Adapter; Contact Blocks Required.

**Field Convertible to Momentary by Switch on Threaded Barrel.

***Includes Black, White, Red, Green, Yellow, Blue Button Covers.

ILLUMINATED PUSHBUTTON OPERATORS MAINTAINED/MOMENTARY



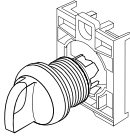
Vendor Code: **CHC**

Catalog Number	Description	Price Each
FLUSH PUSHBUTTON OPERATOR		
M22DRLW	White	23.11
M22DRLG	Green	23.11
EXTENDED PUSHBUTTON OPERATOR		
M22DRLHR	Red	24.79
M22DRLHG	Green	24.79

Field Convertible to Momentary by Switch on Threaded Barrel. Includes Contact Block Mounting Adapter; LED Light Unit and Contact Blocks Required.

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SELECTOR SWITCHES MOMENTARY/MAINTAINED

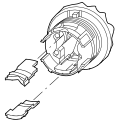

Vendor Code: **CHC**

Catalog Number	Description	Price Each
SELECTOR SWITCHES*		
M22WK**	2-Position	25.30
M22WK3**	3-Position	24.43
PLUNGER BRIDGE		
M22XW	Required to Operate Center-Mounted Contact Block on 3-Position Selector Switches	6.30

Contact Blocks Required.

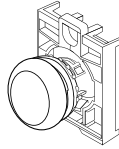
**Selector Switches are Field Convertible from Momentary to Maintained by Adjusting Coding Adapter(s) Listed Below.

SELECTOR SWITCHES CODING ADAPTER GUIDE



Switch Position Left	Adapter Insert Position		Switch Position Right
	Bottom	Top	
TWO POSITION SELECTOR SWITCH			
(NA)		Momentary	
	—	Maintained	
THREE POSITION SELECTOR SWITCH			
Momentary			Momentary
Maintained	—	—	Maintained
Maintained	—		Momentary
Momentary		—	Maintained

INDICATING LIGHTS

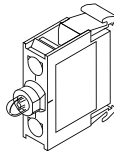

Vendor Code: **CHC**

Catalog Number	Lens Color	Price Each
M22LR	Red	11.87
M22LG	Green	11.87
M22LY	Yellow*	11.96

LED Light Unit Required.

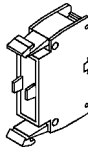
*Use White LED Light Unit for Yellow Lens.

LED LIGHT UNITS FOR ILLUMINATED PUSHBUTTONS AND INDICATOR LIGHTS


Vendor Code: **CHC**

Catalog Number	LED Color	Price Each
12-30V AC/DC		
M22LEDR	Red	29.83
M22LEDG	Green	29.83
M22LEDW	White	19.88
85-264V AC/DC		
M22LED230R	Red	29.83
M22LED230G	Green	30.05
M22LED230W	White	29.83

CONTACT BLOCKS


Vendor Code: **CHC**

Catalog Number	Description	Price Each
SCREW TERMINAL CONTACT BLOCKS		
M22K10	1 Normally Open	9.45
M22K01	1 Normally Closed	9.45
SPRING CAGE TERMINAL*		
M22CK10	1 Normally Open	13.34
M22CK01	1 Normally Closed	13.26
M22CK01D	1 Normally Closed Late-Break	21.22
M22CK20	2 Normally Open	22.30
M22CK02	2 Normally Closed	22.30

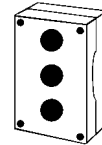
*Spring Cage Terminals Can Accommodate Two Wires Up to #12 AWG.

LEGEND PLATES


Vendor Code: **CHC**

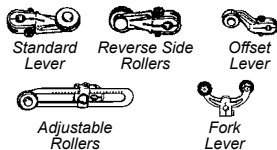
Catalog Number	Description	Price Each
FOR PUSHBUTTONS AND PILOT LIGHTS		
M22SSTGB1	Start	7.16
M22SSTGB0	Stop	7.16
M22SSTGB7	Run	7.16
FOR SELECTOR SWITCHES		
M22SSTGB10	Off/On	7.16
M22SSTGB12	Hand/Off/Automatic	7.16

OIL-TIGHT ENCLOSURES FOR 22MM OPERATORS NEMA 4X, 13


Vendor Code: **CHC**

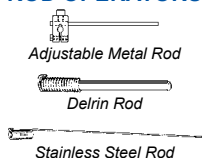
Catalog Number	Description	Price Each
ONE PUSHBUTTON		
M221PG	1 Pushbutton Enclosure	66.74
M2212PG	2 Pushbutton Enclosures	71.72
M2213PG	3 Pushbutton Enclosures	75.78

OPERATORS FOR ROTARY HEAD SWITCHES (ROLLER LEVERS)

Vendor Code: **CHC**

Catalog Number	Length	Width	Type	Price Each
STANDARD ROLLER LEVERS				
E50KL200	1-1/2"	5/16"	Nylon	40.38
E50KL355	1-1/2"	5/16"	Metal	40.38
E50KL377	1-1/2"	1"	Nylon	69.40
E50KL531	1-1/2"	1/4"	Bear.	99.15
ADJUSTABLE ROLLERS				
E50KL201	1 - 3-3/4"	5/16"	Nylon	66.09
E50KL537	1 - 3-3/4"	3/4"	Nylon	99.15
REVERSE SIDE ROLLERS				
E50KL310	1-1/2"	5/16"	Nylon	42.29
E50KL536	1-1/2"	9/32"	Nylon	58.55
OFFSET LEVER				
E50KL27	1-1/2"	5/16"	Outboard	42.29
FORK LEVER - ROLLERS ON SAME SIDE				
E50KL204	1-1/2"	5/16"	Nylon	69.40
FORK LEVER - ROLLERS ON OPPOSITE SIDE				
E50KL203	1-1/2"	5/16"	Nylon	69.40

ROD OPERATORS

Vendor Code: **CHC**

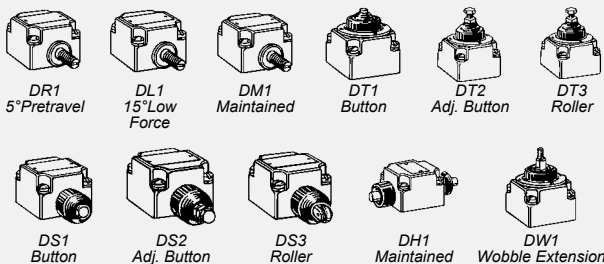
Catalog Number	Length	Price Each
1/8" ADJUSTABLE METAL ROD		
E50KL202	5-1/2" Max	69.40
1/4" DELRIN ROD		
E50KW2	3-3/8"	42.29
1/16" STAINLESS STEEL ROD		
E50KW3	12"	28.15

OPERATING HEADS

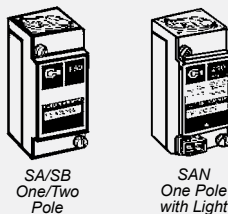
Vendor Code: **CHC**

Catalog Number	Description	Price Each
E50DR1	Spring Return	154.83
E50DL1	Spring Return	222.04
E50DM1	Two Position, Maintained	270.96
E50DS1	Push Spring Return	260.52
E50DS2	Push Spring Return	311.52
E50DS3	Push Spring Return	317.20
E50DH1	Push*	337.94
E50DT1	Push Spring Return	232.21
E50DT2	Push Spring Return	266.22
E50DT3	Push Spring Return	286.94
E50DW1	Wobble Spring Return	207.67

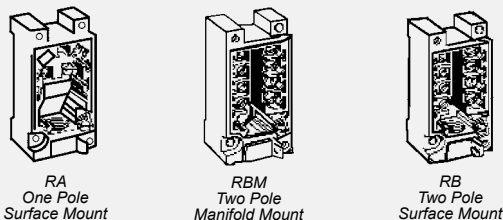
OPERATING HEADS



SWITCH BODIES



RECEPTACLES



SWITCH BODIES

Vendor Code: **CHC**

Catalog Number	Description	Price Each
E50SA	Standard 1NO - 1NC	217.93
E50SAN	1NO - 1NC w/Light	313.74
E50SB	Standard 2NO - 2NC	283.67

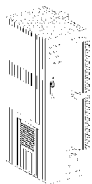
RECEPTACLES FOR PLUG-IN SWITCH

Vendor Code: **CHC**

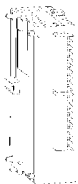
Catalog Number	Description	Price Each
E50RA	5 Terminal	53.36
E50RB	9 Terminal	80.24

EAT•N

ELC PROGRAMMABLE LOGIC CONTROLLERS



Controller



Module

As master or slave, ELC controllers can create an unlimited hierarchy of communications.

Capability - ELC controllers provide the instruction set of a large PLC in a small package. It is capable of 1-, 4-, 8-, 16-, and 32-bit instructions, block compare, block move, communications, interrupts, clock/calendar and over 240 logic instructions.

Flexibility - Expandable from 10 I/O to 256 I/O per controller.

Size - Most modules are only 1" wide and offer I/O from 4 In and 4 Out, to 8 In and 8 Out.

Remote Communications - ELC analog modules are capable of stand-alone operation. Mounted remotely, the ELC communicates to the analog module through its communications port. The ELC also lets you read parameters, set parameters, use scale, offset, and average values.

Choose From

- Analog In/Out
- Standard Thermocouple
- Platinum Thermocouple
- RTD

Complete Assembly Includes

- Controller
- Expansion Modules
- Power Supply

High-Level Network Access Through These Eaton Gateways

- Modbus TCP
- DeviceNet
- Profibus

Convenient Use and Installation

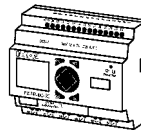
- DIN Rail Mounted
- Built-In Display

Vendor Code: **CHC**

Catalog Number	Description	Power Required	Price Each
CONTROLLERS			
ELC2PB14NDR	8 DC In / 6 Relay Out	150 mA	486.84
ELC2PC12NDR	8 DC In / 4 Relay Out, Clock	150 mA	621.17
ELC2PV28NDR	16 DC In / 12 Relay Out	220 mA	1271.57
EXPANSION MODULES			
ELCEX16NDR	8 DC In / 8 Relay Out	90 mA	381.12
ELCEX08NNNR	8 Relay Out	70 mA	311.60
ELCEX08NDR	8 DC In	50 mA	200.58
ELCEX08NNAN	8 AC In	50 mA	237.60
ELCAN04ANN	4 Analog In	90 mA	632.90
ELCAN06AANN	4 Analog In/2 Analog Out	90 mA	860.74
ELC06NANNI	6 Relay (6 Amp) Out	70 mA	348.80
ACCESSORIES			
ELCPS01	24VDC Power Supply	1,000 mA	176.16
ELCPS02	24VDC Power Supply	2,000 mA	255.57
ELCBPCELC3	9.8ft (3m) PC Cable	-	115.14

If 24V DC is Not Available, Select Power Supply from Above.
Programming Software is Available for Free at Eaton.com.

EZ SERIES INTELLIGENT RELAYS



EZ Relays are an easy to use programmable relay that provide users with timing relays, flash relays, counters, comparators, timer switches, and other ready-to-use functions. Available in 32 different styles supporting 10 I/O to 320 I/O, EZ Relays are perfect for replacing an aging electro-mechanical control panel or controlling a new production line - anywhere relays, timers, and pushbuttons are used.

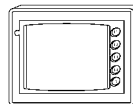
- User friendly operation
- Ready to use function blocks
- Built in timing relays, flash relays, counters, comparators, timer switches and other ready-to-use functions
- Integrated power flow display to ensure safe operation
- Circuit diagram stored internally or can be output on a memory module
- 100 to 240V AC
- 8A relay output

Vendor Code: **CHC**

Catalog Number	Description	Price Each
EZ RELAYS		
EASY512ACRC	8 AC In / 4 Relay Out, Clock, Display	195.93
EASY719ACRC	12 AC In / 6 Relay Out, Clock, Display	217.53
EZ ACCESSORIES		
EASYPCCAB	EZ-500/700 PC to EZ Cable	106.76

Programming Software Free at Eaton.com

HMI OPERATOR INTERFACE



HMI simplifies configuring application parameters with features and software that provide added capabilities and make monitoring your system intuitive.

- HMI stores entire application, including images, so editing won't require original source files.
- Flexibility, plus the security of password protection, makes HMI the perfect operator interface for any user.
- Picture Bank uploads/downloads images to a personal computer.
- Easy-to-use macro ability, from simple math, storing and manipulating trends, data, and communications, to sending data from one PLC to another.

Vendor Code: **CHC**

Catalog Number	Description	Price Each
HMI INTERFACES		
HMIVU04CUNBE	4" Color Touchscreen with On-Board Ethernet	630.58
HMIVU07CUNBE	7" Color Touchscreen with On-Board Ethernet	1065.66
HMIVU08CUNBE	8" Color Touchscreen with On-Board Ethernet	1674.20
HMI ACCESSORIES		
HMISPKIT	HMI Spare Parts Kit	76.87

Programming Software is Available for Free at Eaton.com.

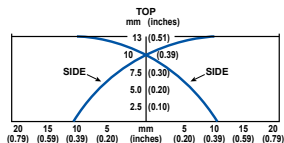
BASIC SENSOR OPERATIONS

INDUCTIVE PROXIMITY SENSORS

Inductive proximity sensors will sense all metals. The exact point at which a target will be detected is influenced by the type of metal, its size and surface area. The following charts show the sensing fields for a standard target: 45mm sq., mild steel, 1mm thick.

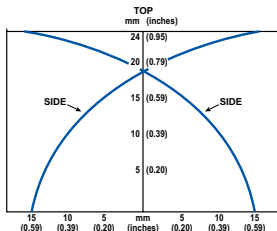
STANDARD RANGE

Shielded - Can be mounted flush with metal surface.



EXTENDED RANGE

Non-Shielded - Can not be mounted flush with metal surface.



The two most common approach directions are axial (head-on) and lateral (from the side). Detection occurs at the point where the target first touches the envelope of the sensing curve. The curve shown is for a standard target and must be corrected for other size targets.

TARGET CORRECTION FACTORS

(Multiply sensing range of device by factor given below)

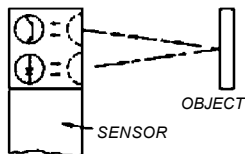
Target	Sensor Size (in millimeters)			
	4 - 8	12	18	30
400 Stainless	0.90	0.90	1.00	1.00
300 Stainless	0.65	0.70	0.70	0.85
Brass	0.35	0.45	0.45	0.45
Aluminum	0.35	0.40	0.40	0.40
Copper	0.30	0.25	0.35	0.30

USEFUL CONVERSIONS

Inches to Millimeters: Inches / 0.03937
Millimeters to Inches: Millimeters X 0.03937

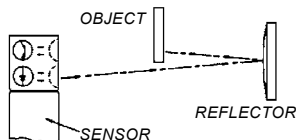
PHOTO-ELECTRIC SENSORS
DIFFUSE-REFLECTIVE

This type of sensor detects the reflection of transmitted light from the surface of an object. Shortest sensing range of all photoelectrics.



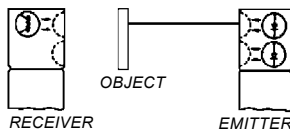
RETRO-REFLECTIVE

This type of sensor utilizes a special reflector to return the beam directed at it from the sensor. An object between the sensor and reflector is sensed when it interrupts the beam. Medium sensing range.



THRU-BEAM

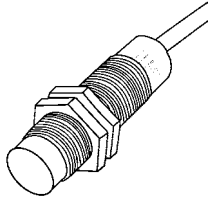
Separate emitter and receiver provide maximum detection range and most positive type of sensing for opaque objects. When an object interrupts the beam from emitter to receiver, the object is detected.



EAT•N

INDUCTIVE PROXIMITY SENSORS

TUBULAR



- Stainless steel barrel manufactured to take physical and environmental abuse
- 360° output status indicator visible from any angle in any light
- Protected against industrial transients and exceed NEMA 1500V showering arc specifications
- Extended range models offer over 3 times the range of standard models

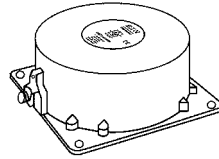
Vendor Code: **CHC**

Catalog Number	Thread Size	Sense. Dist.	Price Each
20–250V AC, STANDARD RANGE*			
E57LAL12A2	12mm	2mm	421.23
E57LAL18A2	18mm	5mm	423.34
E57LAL30A2	30mm	10mm	440.03
35–250V AC, EXTENDED RANGE*			
E57LAL12A2E	12mm	4mm	421.23
E57LAL18A2E	18mm	8mm	423.34
E57LAL30A2E	30mm	15mm	440.03
20–250V AC, N.C.			
E57LBL12A2EA	12mm	4mm	454.61
20–250V AC, N.O.*			
E57LAL12A2EA	12mm	4mm	454.61
E57LAL18A2EA	18mm	8mm	454.61
E57LAL30A2EA	30mm	15mm	498.44
10–50V DC, SHIELDED N.O.			
E57P12SPN2C2	12mm	4mm	206.42
E57LAL12T111SD	12mm	2mm	140.09

*Listed AC Units Have Normally Open Outputs. Replace Fifth Character (in Black) of Catalog Number with: **B** for **Normally Closed Outputs**.

**A SENSOR FOR ANY APPLICATION!
CONTACT YOUR LOCAL
ELLIOTT ELECTRIC SUPPLY
FOR MORE INFORMATION!**

LONG RANGE, HEAVY DUTY

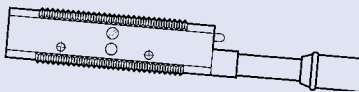


- Robust design and longest sensing ranges available (up to 100mm)
- Small diameter, 2-wire AC/DC models feature a selector switch inside the housing, enables output contacts to be used as either N.O. or N.C.
- Auto-configure output technology on 4-wire DC models automatically detects how sensor has been wired (NPN or PNP) and switches sensor without user intervention
- Includes additional power and output LEDs to make troubleshooting easier

Vendor Code: **CHC**

Catalog Number	Sensing Distance	Price Each
20–250V AC / 20–60V DC, N.O. OR N.C. UNSHIELDED		
E56CDL50A2E	50mm	838.04

COMET 100 SERIES HIGH PERFORMANCE PHOTOELECTRIC SENSORS



- Available in AC/DC versions as well as DC only
- Rated to NEMA Types 1, 2, 3, 4, 4X, 6, 6P, 12 & 13
- 3/4" (18mm) tubular or flat surface mounting
- 8 ms response time on AC/DC versions; 1 ms on DC only versions
- Short circuit protection standard on AC/DC version

THRU BEAM 20 – 264V AC OR 15 – 30V DC

Vendor Code: **CHC**

Catalog Number	Description	Range	Price Each
WIDE ANGLE			
11100A6513	Emitter	25 Feet	206.64
12100A6513	Receiver	25 Feet	315.56
NARROW ANGLE, RIGHT ANGLE VIEW			
11100R6513	Emitter	20 Feet	206.64
12100R6513	Receiver	20 Feet	315.56

Emitter and Receiver Required for Complete Installation.

RETRO REFLECTIVE* 20 – 264V AC OR 15 – 30V DC

Vendor Code: **CHC**

Catalog Number	Voltage	Range	Price Each
VISIBLE BEAM			
14102A6513	AC or DC	25 Feet	371.91
POLARIZED VISIBLE BEAM			
14101A6513	AC or DC	15 Feet	394.47

*Requires Reflector for Complete Installation
See Below.

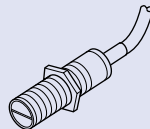
PERFECT PITCH DIFFUSE REFLECTIVE 20 – 264V AC OR 15 – 30V DC

- Uses two separate optical detectors with sharp optical cutoff to detect objects at maximum range while avoiding detection of background objects
- High excess gain reliably detects low reflectance targets
- Convertible between light detection and dark detection on some models
- Short circuit protection on all models

Vendor Code: **CHC**

Catalog Number	Voltage	Range	Price Each
13104A6513	AC or DC	2.25 Inches	450.84
13103A6513	AC or DC	9 Inches	450.84

E58 SERIES HARSH DUTY PHOTOELECTRIC SENSORS



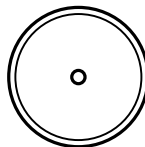
- 30mm, threaded 303 stainless steel housing
- 6P+ construction guaranteed not to fail from moisture ingress for 5 years
- Glass lens standard
- Brightest output indicator available, flashes under short circuit protect mode
- SJO cable standard with industry standard quick connectors available
- Food Processing Options: 316 stainless steel housing; smooth body plastic lens

THRU BEAM 20 – 132V AC

Vendor Code: **CHC**

Catalog Number	Description	Price Each
E5830TS250GA	800' Emitter Dark Sense	847.94
E5830TD250GD	800' Receiver Dark Sense	985.29

REFLECTORS SENSOR ACCESSORIES

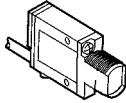
Vendor Code: **CHC**

Catalog Number	Description	Price Each
6200A6501	3" Diameter with Mounting Hole, Two per Package	53.05





MINI-BEAM SENSORS

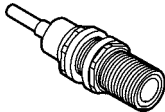

Vendor Code: **BAN**

Catalog Number	Range	Supply Voltage	Cbl. Len.	Price Each
EMITTER, OPPOSED MODE				
SM31E	10'	10-30V DC	6.5'	88.00
SMA31EL	100'	24-240V AC	6.5'	111.00
RECEIVER, OPPOSED MODE				
SM31R	10'	10-30V DC	6.5'	125.00
SM2A31R	10'	24-240V AC	6.5'	158.00
SM2A31RL	100'	24-240V AC	6.5'	158.00
DIFFUSE MODE				
SM312DQD	15'	10-30V DC	6.5"	177.60
SM2A312D	15'	24-240V AC	6.5'	184.00
SM2A312DQD	15'	24-240V AC	6.5"	184.00
DIVERGENT DIFFUSE MODE (CLEAR MAT.)				
SM312W	5"	10-30V DC	6.5'	148.00
RETROREFLECTIVE MODE				
SM312LV	15'	10-30V DC	6.5'	148.00
SM312LVQD	15'	10-30V DC	6.5"	177.60
SM2A312LVAG	2' - 7"	24-240V AC	6.5'	191.00
CONVERGENT MODE, VISIBLE RED				
SM312CVQD	0.65'	10-30V DC	6.5"	158.00

*Includes Quick Disconnect Cable.

**Polarized

SM30 SERIES 30MM BARREL SENSORS (OPPOSED MODE)


Vendor Code: **BAN**

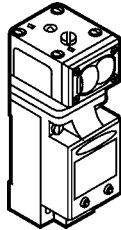
Catalog Number	Description	Price Each
PLASTIC HOUSING, A FREQUENCY*		
SMA30PEL	AC/DC Emitter	225.00
SM2A30PRL	AC Receiver	268.00
SM30PRL	DC Receiver	242.00
STAINLESS STEEL, A FREQUENCY*		
SMA30SEL	AC/DC Emitter	300.00
SM2A30SRL	AC Receiver	344.00
SMA30SELQD	AC/DC Emitter**	300.00
SM2A30SRLQD	A/C Receiver**	344.00
SM2A30SRLNCQD	A/C Receiver**	344.00
SM30SRLQD	DC Receiver**	323.00
STAINLESS HOUSING, B FREQUENCY		
SMA30SELQDB	Emitter**	324.00
SM2A30SRLQDB	Receiver**	436.80

*For Alternate Frequencies:

Add B for **B Frequency** or C for **C Frequency** to the End of the Part Number. Call for Pricing.

**Includes Quick Disconnect Cable.

MAXI-BEAM MODULAR SENSORS



- Programming and sensing response
- Alignment indicating device
- Components bolt together quickly and easily

SENSOR HEADS

Vendor Code: **BAN**

Catalog Number	Range	Description	Price Each
OPPOSED MODE			
RSBE	300'	Emitter	170.00
RSBR	300'	Receiver	215.00
RETROFLECTIVE MODE			
RSBLV	6" - 30'	Non-Polar.	229.00
RSBLVAG	1' - 15'	Polarized	245.00
DIFFUSE MODE			
RSBD	5'	Long Range	229.00
RSBDSR	30"	Short Range	240.00

NOTE: Banner Products are only available in select Elliott Electric Supply locations. To check which locations stock Banner products, visit www.ElliottElectric.com

POWER BLOCKS

Vendor Code: **BAN**

Catalog Number	Description	Price Each
BASE		
RWB4	Wiring Base*	42.00
DC POWER BLOCKS		
RPBT	In: 10 - 30V DC Out: 250 mA	131.00
AC POWER BLOCKS, 2-WIRE		
RPBA	In: 105 - 130V AC Out: Max: 250V AC / 750 mA	158.00
RPBA1	For RSBE Emitter	175.00

*Wiring Base Required for All Maxi-Beam Assemblies.

ACCESSORIES

Vendor Code: **BAN**

Catalog Number	Description	Price Each
RETROREFLECTIVE TARGETS		
BRT3	3.3" Round	12.00
BRTTHG2100	2" x 100" Tape	73.00
QUICK DISCONNECT CABLES		
MBCC312	12' 3-Pin	68.00
SM30CC312	12' 3-Pin*	68.00
MBCC512	12' 5-Pin	61.00
MBCC530	30' 5-Pin	97.00
MINI-BEAM BRACKETS		
SMB18A	SS Rt. Angle	11.00
SM30 BRACKET		
SMB30A	SS Rt. Angle	13.00

*Use with 2-Wire SM30.



POWER SUPPLIES
PSG SERIES

PSG60E (Single Phase)



PSG60F24RMA1 (Three Phase)

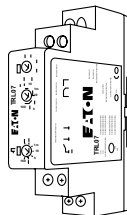
- General-purpose 12 Vdc and 24 Vdc output for 1.25A to 40A loads
- Single-phase and three-phase inputs up to 500 Vac
- 150% power surge output
- Redundancy modules
- Buffer module
- DIN rail mount
- Rugged metal and plastic housing options
- Heavy-duty screw and finger-safe terminals
- Hazardous Location Class I, Division 2 rated models
- NEC® Class II rated model
- Protection from overvoltage, overcurrent and overtemperature conditions

Vendor Code: **CHC**

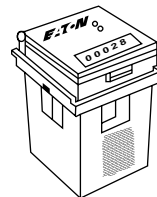
Catalog Number	Output Current	Dimensions			Price Each
		L	W	H	
85-264VAC 1 PHASE INPUT / 24VDC OUTPUT					
PSG60E	2.5A	4.76"	1.25"	4.75"	153.89
PSG120E	5A	4.76"	1.26"	4.72"	349.99
PSG240E	10A	4.76"	3.35"	4.67"	517.47
PSG480E	20A	4.76"	6.3"	4.53"	500.73
320-575VAC 3 PHASE INPUT / 24VDC OUTPUT					
PSG60F24RM	2.5A	4.76"	1.97"	4.62"	198.33
PSG120F24RM	5A	4.76"	1.97"	4.62"	387.65
PSG240F24RM	10A	4.76"	2.76"	4.62"	592.33
PSG480F24RM	20A	4.76"	5.51"	4.62"	541.67

EATON

TIMING RELAYS



DIN Rail Mount



Socket Mount

Function	Description
1	Asymmetrical flasher, pause first
2	Asymmetrical flasher, pulse first
3	ON delay and OFF delay with control contact
4	ON delay and single shot leading edge voltage controlled
5	ON delay and single shot leading edge control contact
6	Single shot leading and single shot trailing edge with control contact
7	Pulse sequence monitoring
8	ON delay, power triggered
9	Single shot leading edge voltage controlled
10	OFF delay/signal OFF delay
11	Single shot leading edge with control input
12	Single shot trailing edge with control input
13	ON delay control signal start, trailing edge OFF
14	Flasher, pause first
15	Retriggerable single shot
16	Flasher, ON first
17	ON delay control signal start, leading edge OFF
18	Flasher—control signal start, pause first
19	Flasher—control signal start, ON first
20	Signal ON/OFF delay
21	ON/OFF delay
22	Single pulse generator
23	Memory latch
24	True OFF Delay

Vendor Code: **CHC**

Catalog Number	Functions	Price Each
8A AC OUTPUT, 24-240V AC/DC		
TRL04*	8, 9, 10, 14	80.99
TRL07*	8, 9, 10, 11, 12, 13, 14	90.14
8A AC OUTPUT, 12/240V AC/DC		
TRL27**	8, 9, 10, 11, 12, 13, 14	115.52
12A AC 8-PIN OCTAL BASE, 12-240V AC/DC		
TMRP5102**	8, 9, 10, 11, 14, 15, 16, 21, 22, 23	408.59
12A AC 11-PIN BASE, 12-240V AC/DC		
TMRP5100**	8, 9, 10, 11, 14, 15, 16, 21, 22, 23	408.87
ACCESSORIES		
D3PA2	8-PIN Round, Screw Terminal Socket	11.16
D3PA3	11-PIN Round, Screw Terminal Socket	20.41

*Single Pole, Double Throw

**Double Pole, Double Throw

3 PHASE VOLTAGE MONITORS SOCKET MOUNT



Monitors 3-phase power lines for abnormal conditions. When properly adjusted, the unit will detect phase loss on a loaded motor even when regenerated voltage is present. Both the 257 & 258 models do not require a neutral connection and can be used in either Wye or Delta configurations.

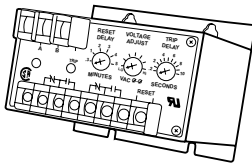
- 10A SPDT output contacts
- Monitors and detects phase loss, low voltage and phase reversal
- Automatic restart
- Wide range adjustment
- 5 year unconditional warranty

Vendor Code: **TIM**

Catalog Number	A/C Input Voltage	Adjustment Range	Relay Base	Price Each
TOP CONTROL				
257B	208/240V	160-240V	8-Pin Octal	88.18
A257B	480V	380-480V	8-Pin Octal	88.18
SIDE CONTROL				
258B	208/240V	160-240V	8-Pin Octal	88.18
A258B	480V	380-480V	8-Pin Octal	86.26

Other Voltages Available

3 PHASE VOLTAGE MONITORS PANEL MOUNT



C2652

These 3 phase voltage monitors offer the same capabilities as the 257 and 258 models as well as offer additional contacts and timing functions not found in socket mount models.

C2652 - Detects low voltage, phase loss, phase reversal. DPDT output relay. Adjustable trip relay up to 10 seconds. Adjustable restart relay up to five minutes to prevent short cycling.

C269 - Detects high voltage, low voltage, phase loss and phase reversal. Adjustable trip relay up to 10 seconds. SPDT output relay.

Vendor Code: **TIM**

Catalog Number	A/C Input Voltage	Adjustment Range	Relay Base	Price Each
C2652	480V	380-500V	DPDT	235.27
C269	480V	380-540V	SPDT	172.02

Other Voltages Available

ALTERNATING RELAYS



Model 261 alternating relays are designed for duplex pumping systems where equalized pump run times are desired. The relay requires continuous power source and control switch. Relay output contacts change states when control switch opens. Toggle switch is set to NORMAL position. Toggle to Load 1 or Load 2 to lock relay in position and prevent alternation.

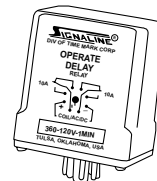
- 10A contacts
- 90-130V operating voltage range
- Toggle switch to prevent alternation and lock relay on Load 1 or Load 2
- UL, CSA recognized

Vendor Code: **TIM**

Catalog Number	Input Voltage	Contact Configuration	Relay Base	Price Each
261ST120V	120VAC/DC	SPST	8-Pin Octal	109.28
261DT120V	120VAC/DC	DPDT	11-Pin Round	122.33

Other Voltages Available

OPERATE DELAY RELAYS



360120V1MIN

The Model 360 Operate Delay Relays are designed for a wide range of industrial applications. Examples include automatic and machine tool control circuits. HVAC circuits, and warm-up delay circuits. The Model 360 is SPDT, high accuracy digital timer. Solid state timing circuits in each model drive an internal electromechanical relay.

Vendor Code: **TIM**

Catalog Number	A/C Input Voltage	Timing Range	Relay Base	Price Each
360120V1MIN	120V	1-1023 Minutes	8-Pin Octal	85.09

Other Voltages Available



TIME MARK
CORPORATION

GENERAL PURPOSE PLUG-IN RELAYS

Vendor Code: **CHC**

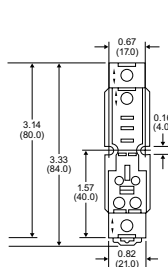
Catalog Number	Contact Configuration	Coil Voltage	Relay Base	Price Each
20A AC 5-BLADE				
D1RR1B	SPDT	240V	D1PAA	20.68
10A AC 8-BLADE				
D2RR2T	DPDT	24V	D2PAL	31.81
D2RR2A	DPDT	120V	D2PAL	18.17
D2RR2B	DPDT	240V	D2PAL	22.68
10A DC 8-BLADE				
D2RR2T1	DPDT	12V	D2PAL	32.44
D2RR2R1	DPDT	24V	D2PAL	22.20
10A AC 11-BLADE SQUARE BASE				
D2RR4B	4PDT	120V	D2PA6	25.63

LATCHING RELAYS

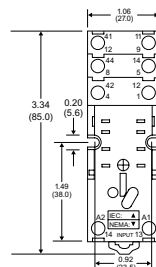
Vendor Code: **CHC**

Catalog Number	Contact Configuration	Coil Voltage	Relay Base	Price Each
5A DC 14-PIN				
D2PR5T1	DPDT	24V	D2PA6	86.68
5A AC 14-PIN				
D2PR5T	DPDT	24V	D2PA6	88.85
D2PR5A	DPDT	110V	D2PA6	88.85

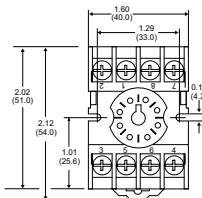
RELAY MOUNTING SOCKETS



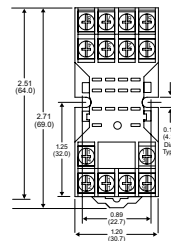
D1RAA



D2PAL



D3PA2



D2PA6

Vendor Code: **CHC**

Catalog Number	Description	Price Each
D1RAA	20A 5-Blade Screw Terminal Socket	20.32
D2PA6	10A 14-Blade Screw Terminal Socket	27.29
D2PAL	10A 8-Blade Screw Terminal Socket	21.88
D3PA2	16A 8-Pin Octal Screw Terminal Socket	11.16

EAT•N

STANDARD OCTAL BASES


Vendor Code: **IDC**

Catalog Number	Contact Configuration	Coil Voltage	Relay Base	Price Each
10A AC 8 PIN ROUND BASE				
RR2PUAC24V	DPDT	24V	SR2P06	23.91
RR2PUAC120V	DPDT	120V	SR2P06	24.14
RR2PUAC240V	DPDT	240V	SR2P06	20.72
RR2PULAC24V*	DPDT	24V	SR2P06	26.22
RR2PULAC120V*	DPDT	120V	SR2P06	26.45
10A DC 8-PIN ROUND BASE				
RR2PUDC12V	DPDT	12V	SR2P06	22.98
RR2PUDC24V	DPDT	24V	SR2P06	22.98
10A AC 11-PIN ROUND BASE				
RR3PAUAC120V	3PDT	120V	SR3P06	27.47

*Includes LED Indicator.

MAGNETIC LATCHING RELAYS



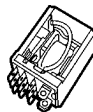
RR2KPUAC Series

Vendor Code: **IDC**

Catalog Number	Contact Configuration	Coil Voltage	Relay Base	Price Each
10A 11-PIN OCTAL BASE PERMANENT MAGNET, DUAL COIL LATCHING RELAY				
RR2KPUAC24V	DPDT	24V	SR2P06	75.93
RR2KPUAC120V	DPDT	120V	SR2P06	72.97

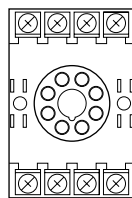
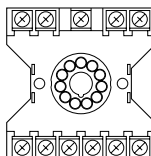
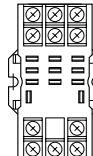


COMPACT BLADE BASES


Vendor Code: **IDC**

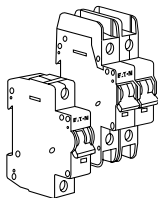
Catalog Number	Contact Configuration	Coil Voltage	Relay Base	Price Each
10A AC 5-BLADE				
RH1BUAC24V	SPDT	24V	SH1B05	12.45
RH1BUAC120V	SPDT	120V	SH1B05	11.97
10A DC 8-BLADE				
RH2BUDC24V	DPDT	24V	SH2B05	11.31
10A AC 8-BLADE				
RH2BUAC24V	DPDT	24V	SH2B05	12.69
RH2BUAC110120V	DPDT	120V	SH2B05	12.58
10A AC 11-BLADE				
RH3BUAC120V	3PDT	120V	SH3B05	15.90
10A AC 14-BLADE				
RH4BUAC120V	4PDT	120V	SH4B05	19.55

RH SERIES DIN RAIL SNAP MOUNT SOCKETS


5 Blade
SH1B05

8 Pin
SR2B06

11 Pin
SR3P06

11 Blade
SH3B05

Vendor Code: **IDC**

Catalog Number	Description	Price Each
SH1B05	5 Blade SPDT	7.70
SH2B05	8 Blade DPDT	7.86
SH3B05	11 Blade 3PDT	8.75
SH4B05	14 Blade 4PDT	10.97
SR2P06	8 Pin Round, Screw Terminal DPDT	6.45
SR3P06	11 Pin Round, Screw Terminal 3PDT	9.96

DIN RAIL MOUNT
CIRCUIT BREAKERS

UL 489 or UL 1077?

While both devices may be mounted on 35mm DIN rail and may look the same, not all miniature circuit breakers carry equal ratings. Only UL 489 devices carry the necessary rating to be used as branch protection. UL 1077 devices are only rated for use as supplemental protection and may only be used in conjunction with a branch rated device. Think of it this way: a UL 489 device carries the same rating and offers the same protection as a typical thermal-magnetic circuit breaker. A UL 1077 device is what you would use to provide over-current protection to a PLC, control power transformer, or lighting circuit in a controlpanel once you run power to it from a UL 489 branch device.

UL 489 Miniature Circuit Breakers:

- UL489 and CSA C22.2 certified
- Suitable for branch circuit protection and motor control
- Switching duty rated - suitable for switching fluorescent loads
- Width is 17.7mm per pole
- Rated for 10kaic @ 277/480Vac

Vendor Code: **CHC**

Catalog Number	Amperage	Trip Curve*	Price Each
UL 489 1 POLE**			
FAZC51NASP	5	C	159.27
FAZC101NASP	10	C	148.28
FAZC151NASP	15	C	148.28
FAZC201NASP	20	C	148.28
FAZC301NASP	30	C	159.27

*B & D Curve Versions are Available

**Two and Three Pole Versions are Available

UL 1077 Supplemental Circuit Protectors

- UL 1077, CSA CS22.2 No.235, and IEC 60947-2 certified
- Offers supplemental protections for control circuits, lighting, business equipment, and appliances
- Current limiting design
- Width is 17.5mm per pole
- Rated for 10kaic @ 277/480Vac

Vendor Code: **CHC**

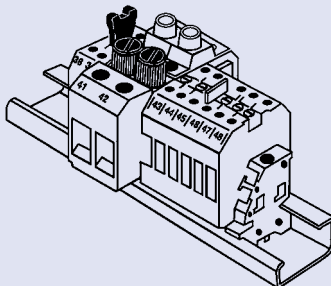
Catalog Number	Amperage	Trip Curve*	Price Each
UL 1077 1 POLE**			
FAZC51SP	5	C	148.19
FAZC101SP	10	C	108.46
FAZC151SP	15	C	124.09
FAZC201SP	20	C	108.46
FAZC301SP	30	C	124.09

*B & D Curve Versions are Available

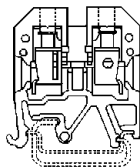
**Two and Three Pole Versions are Available

WEIDMULLER TERMINAL BLOCKS

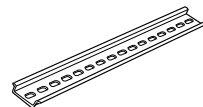
Electrical & Electronic Connection Systems



- Vibration resistant clamping action
- Efficient use of expensive space
- Fast, easy installation
- Terminal blocks for many functions
- Trouble free operation with added safety
- Corrosion resistant clamping action

Weidmüller UNIVERSAL RAIL MOUNT
SAK-EN TERMINAL BLOCKS

DIN RAIL

Vendor Code: **WEI**

Catalog Number	Description	Price Each
TYPE TS35 X 7.5		
0383400000	Solid Steel Rail	8.13
0514500000	Slotted Steel Rail	8.37
TYPE TS32		
5144000000	Slotted Steel Rail	25.64

TERMINAL BLOCKS
W SERIES

(FITS TS35X7.5 RAIL ONLY)

- Slim design - 60 Terminal Blocks per foot
- High-Temperature ratings:
Can withstand operating temperatures of 250°F continuous / 350°F to 24 hours

Vendor Code: **WEI**

Catalog Number	Description	Price Each
20 AMP, 600V, 22-12		
1020000000	Terminal Block	0.87
1010000000	Ground Terminal	4.50
1061200000	End Bracket	1.74
1050000000	End Cover Bracket	0.75
45 AMP, 600V, 20-8		
1020200000	Terminal Block	1.41
1010200000	Ground Terminal	6.11
1061200000	End Bracket	1.74
1050000000	End Cover Plate	0.75

Call for a **FREE** Terminal Block Engineering Guide or a complete Product Selection Catalog.
Weidmüller also offers layout software. Contact your Elliott Electric Supply salesperson for more information.

Vendor Code: **WEI**

Catalog Number	Description	Price Each
20 AMP, 600V, 22-12		
1061200000	End Bracket (TS35)	1.74
0206160000	End Bracket (TS32)	1.07
0218660000	Terminal Block	1.67
30 AMP, 600V, 22-10		
1061200000	End Bracket (TS35)	1.74
0206160000	End Bracket (TS32)	1.07
1020180000	Terminal Block	0.87

FUSED TERMINAL BLOCKS
W SERIES FEED-THROUGH
(FITS TS35X7.5 RAIL ONLY)Vendor Code: **WEI**

Catalog Number	Description	Price Each
16 AMP, 600V, 20-8		
1014000000	Without LED Indicator*	6.59
1014300000	40 - 60V DC / 80 - 120V AC**	14.25

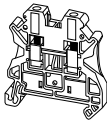
*Uses 1/4" x 1-1/4" Fuse.

**Includes Blown Fuse Indicator, Uses 1/4" x 1-1/4" Fuse.

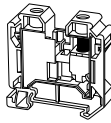
NOTE: Custom labelling is available from Elliott Electric Supply Houston locations.



TERMINAL BLOCKS



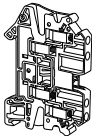
XBUT4



XBUT35

Vendor Code: **CHC**

Catalog Number	Amps	Voltage	Width	Wire Size	Color	Price Each
FEED THROUGH SCREW CLAMPS						
XBUT25	20	600	5.2mm	26-12AWG	Gray	1.50
XBUT4	30	600	6.2mm	26-10AWG	Gray	2.01
XBUT6	50	600	8.2mm	24-8AWG	Gray	2.62
XBUT10	65	600	10.2mm	20-6AWG	Gray	3.19
XBUT16	85	600	12mm	16-4AWG	Gray	6.09
XBUT35	150	600	16mm	14-1/0AWG	Gray	9.08



XBUT25D22



XBUT4

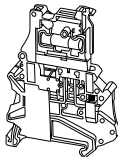
Vendor Code: **CHC**

Catalog Number	Conductors	Amps	Voltage	Width	Wire Size	Price Each
MULTI CONDUCTOR SCREW CLAMPS						
XBUT25D22	4	20	150	5.2mm	26-12AWG	4.85
DOUBLE LEVEL SCREW CLAMPS						
XBUT4	4	30	300	5.2mm	26-12AWG	5.35

*Products above are Gray, please add the following color codes to specify other colors

BK – Black, **BU** – Blue, **GN** – Green, **OR** – Orange, **RD** – Red, **WH** – White, **YE** – Yellow

*Not All Colors Available for All Amperages. Check with Your Elliott Salesperson for Availability on Specific Items.


Vendor Code: **CHC**

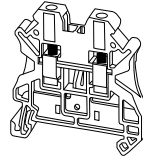
Catalog Number	Voltage	Fuse	Width	Wire Size	Price Each
FUSIBLE SCREW CLAMPS					
XBUT4FBE	600	5 x 20mm	6.2mm	26-10AWG	9.46

Black Color

*With Blown Fuse Indicator

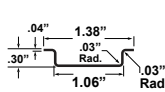
EAT•N

SCREW CLAMP GROUND BLOCKS

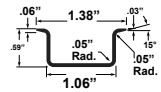

Vendor Code: **CHC**

Catalog Number	Width	Wire Size	Color	Price Each
XBUT25PE	5.2mm	26-12 AWG	Green/Yellow	6.50
XBUT4PE	6.2mm	26-10 AWG	Green/Yellow	7.23

DIN RAIL



XBANS3575P

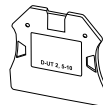


XBANS3515P

Vendor Code: **CHC**

Catalog Number	Description	Price Each
XBANS3575P	Slotted, 35mm x 7.5mm x 2 Meters Long	26.20
XBANS3515P	Slotted, 35mm x 15mm x 2 Meters Long	87.21

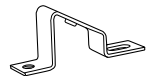
TERMINAL BLOCK ACCESSORIES



XBACUT10



XBAES35C



XBANBGSH

Vendor Code: **CHC**

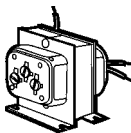
Catalog Number	Description	Price Each
XBACUT10	End Cover for the XBUT25, 4, 6 & 10 Terminal Blocks	0.75
XBACUT16	End Cover for the XBUT16 Terminal Blocks	1.28
XBACUT4D12	End Cover for the XBUT25D12 & XBUT4D12	1.09
XBACUT4D22	End Cover for the XBUT25D22 & XBUT4D22	1.35
XBAFBS25	2 Pole Plug-in Bridge for XBUT25 Terminal Blocks	0.79
XBAFBS55	5 Pole Plug-in Bridge for XBUT25 Terminal Blocks	3.19
XBAFBS105	10 Pole Plug-in Bridge for XBUT25 Terminal Blocks	6.03
XBAFBS26	2 Pole Plug-in Bridge for XBUT4 Terminal Blocks	0.79
XBAFBS56	5 Pole Plug-in Bridge for XBUT4 Terminal Blocks	3.00
XBAFBS106	10 Pole Plug-in Bridge for XBUT4 Terminal Blocks	7.58
XBAES35C	35mm Universal End Stop	2.01
XBANBGS	35.4mm 30 Degree Angle Mounting Bracket	9.62
XBANBGSH	46mm 30 Degree Angle Mounting Bracket	9.84

FIRE ALARM STATIONS

Vendor Code: **EDW**

Catalog Number	Switch Type	Pole	Voltage	Price Each
270SP0	Normally Open	Single	125 / 250	32.27

TRANSFORMERS

Vendor Code: **EDW**

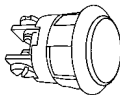
Catalog Number	Description	Price Each
596	120 - 6/12/18V AC, 15 VA	33.28
592	120 - 8/16/24V AC, 20 VA	36.40
598	120 - 8/16/24V AC, 30 VA	41.93
599	120 - 24V AC, 40 VA	42.33

DOOR SWITCHES

Vendor Code: **EDW**

Catalog Number	Description	Price Each
236	Door Trip Switch	43.49

PUSHBUTTONS

Vendor Code: **EDW**

Catalog Number	Description	Price Each
620	Low Voltage, 5/8" Diameter, Chrome Finish	9.65

BEACON LIGHTS

Vendor Code: **EDW**

Catalog Number	Color	Voltage	Price Each
52AN540WH	Amber	120	401.87
52RN540WH	Red	120	401.87

BELLS



720



340 Series

Vendor Code: **EDW**

Catalog Number	Description	Price Each
720	6", 3 - 6V DC, Dixie Bell	34.26

ADAPTABLE, AC VIBRATING

3404G5	4", 24V AC, Bell	205.51
3404N5	4", 120V AC, Bell	196.27
3406N5	6", 120V AC, Bell	233.29

BUZZERS



725 or 740



340AG5 or 340AN5

Vendor Code: **EDW**

Catalog Number	Description	Price Each
725	6 - 8V AC, Dixie Buzzer	25.21
740	6 - 8V DC, Nubel	29.39
340AG5	24V AC, Buzzer	220.42
340AN5	120V AC, Buzzer	220.42

HORNS

Vendor Code: **EDW**

Catalog Number	Description	Price Each
123AN5	120V AC, Midi Horn	32.71
874N5	120V AC, Grille Type	175.95
876N5	120V AC, Weatherproof	235.19

**Edwards Signaling
& Security Systems®**