



List Prices July 2016

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Visa & Master Card Accepted



System Interface Cards

The System Interface Cards provide a variety of engineered solutions for solving control of speed, torque and tension in control systems.

System Interface Cards		Discount Schedule A		
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
C10032-000	SIGNAL FOLLOWER CARD voltage / mAmp input, voltage / mAmp output, no input to output isolation	3.75 x 4.5 x 1.75	1	\$195.00
C10209-000	SIGNAL ISOLATION CARD voltage / mAmp / frequency input voltage / mAmp output, one channel, input to output isolated up to 480VRMS	7.0 x 4.5 x 2.0	2	\$305.00
C10330-000	FREQUENCY TO VOLTAGE CONVERTER square or sine wave frequency input voltage output, one channel, input to output isolated to 480VRMS	8.0 x 1.75 x 5.5	3	\$325.00
C10334-000	ZERO SPEED RELAY CARD armature voltage input up to 500VDC, 3 Amp relay output for zero speed logic	4.0 x 3.75 x 2.0	1	\$167.00
C10368-000	FREQUENCY DIVIDER CARD divide by 1 to 9, up to 100KHz input, external 5 to 15VDC supply required, selectable pull-up resistor on output	3.0 x 3.5 x 1.5	1	\$140.00
C10472-000	ELECTRONIC RELAY CARD AC/DC voltage or DC mAmp input, adjustable pull-in and drop out, 5 Amp relay contacts, space saver right angle mtg. bracket	7.375 x 2.1 x 5.5	3	\$305.00
C10748-000	CURRENT SENSING BOARD 200 Amps AC / 225 Amps DC senses AC or DC current and provides an isolated bipolar or unipolar voltage signal proportional to current. NOTE: Not suitable for use with Inverters	5.5 x 4.25 x 2.4	2	\$310.00
C10748-001	CURRENT SENSING BOARD 290 Amps AC / 330 Amps DC senses AC or DC current and provides an isolated bipolar or unipolar voltage signal proportional to current. NOTE: Not suitable for use with Inverters	5.5 x 4.25 x 2.4	2	\$355.00
C10748-002	CURRENT SENSING BOARD 570 Amps AC / 650 Amps DC senses AC or DC current and provides an isolated bipolar or unipolar voltage signal proportional to current. NOTE: Not suitable for use with Inverters	5.5 x 4.25 x 2.4	2	\$445.00
C11451-000	PRECISION FREQUENCY TO VOLTAGE CONVERTER square or sine wave input, voltage output, 1 channel, 480VRMS isolation input to output, excellent conversion rate for wide range of input frequency, best selection for feedback to motor controls	8.0 x 1.75 x 5.5	3	\$396.00
C11698-000	ACCEL / DECEL CARD linear accel / decel 1-600 seconds standard, +10 VDC reference voltage, aux. power supplies +/- 12VDC @ 100mA for customer use	5.5 x 4.25 x 2.87	2	\$225.00

System Interface Cards

System Interface Cards		Discount Schedule A		
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
D10096-000	MASTER REFERENCE UNIT pot / voltage / mAmp / frequency input voltage output, four isolated channels input to output isolated 480VRMS	8.0 x 8.75 X 1.75	2	\$945.00
D10337-000	CONSTANT TENSION CENTER WIND CONTROL (CTCW) diameter compensation for 10:1 build range with constant tension, adjustable taper, inertia and friction compensation, provides reference to torque mode drive	10.0 x 8.0 x 2.0	2	\$1650.00
D10341-000	ELECTRONIC M.O.P. CARD electronic replacement for motor driven potentiometer, adjustable accel, unipolar or bipolar operation, 12 bit resolution, internal or external reference, space saver right angle mounting bracket provided	8.5 x 1.68 x 8.0	3	\$600.00
D10541-000	DANCER POSITION CONTROL CARD full proportional, integral, and derivative functions for zero centering set point control of dancers and loadcell tension control systems; integrator scaleable from external voltage, bipolar or unipolar operation	10.75 x 2.0 x 7.0	4	\$795.00
D10562-000	PRECISION BIPOLAR ISOLATION CARD bipolar voltage input; bipolar voltage, unipolar voltage / mAmp output; +/- 5VDC supplies for loadcell power, adjustable meter output, one channel with 1500VRMS isolation from input to output, space saver right angle mounting bracket provided	8.5 x 2.0 x 6.75	3	\$500.00
D11005-000	MULTIPLIER / DIVIDER CARD two 1500 VRMS isolated input channels for A and B inputs to a precision multiplier / divider circuit, separate meter output, external trim pot. interface, calculates $\frac{A \times B}{10} \quad \text{and} \quad \frac{B \times 10}{A}$	10.75 x 2.0 x 7.0	4	\$915.00

Din-Rail Mount Modules

The Din-Rail Mount Modules provide a digitized option to replace many of our System Interface Cards, in a compact electronics package.

Din-Rail Mount Modules		Discount Schedule A		
Model Number	Description	Approx. Dim. H x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
ADM290-000	ACCEL / DECEL MODULE	3.504 x 0.886 x 3.898	2	\$425.00
MUL270-000	MULTIPLIER MODULE	3.504 x 0.886 x 3.898	2	\$425.00
DIV280-000	DIVIDER MODULE	3.504 x 0.886 x 3.898	2	\$425.00
PI240-000	PROPORTIONAL INTEGRAL (PI) LOOP MODULE	3.504 x 0.886 x 3.898	2	\$425.00
FIM100-000	FREQUENCY ISOLATION MODULE	3.504 x 0.886 x 3.898	2	\$290.00
SIM200-000	SIGNAL ISOLATION MODULE	3.504 x 0.886 x 3.898	2	\$290.00
LCA210-000	LOAD CELL AMPLIFIER MODULE	3.504 x 0.886 x 3.898	2	\$290.00
FTV220-000	FREQUENCY-TO-VOLTAGE MODULE	3.504 x 0.886 x 3.898	2	\$290.00
VTF230-000	VOLTAGE-TO-FREQUENCY MODULE	3.504 x 0.886 x 3.898	2	\$290.00
ERM260-000	ELECTRONIC RELAY MODULE	3.504 x 0.886 x 3.898	2	\$290.00
MOP250-000	ELECTRONIC MOP (MOTOR OPERATED POTENTIOMETER) MODULE	3.504 x 0.886 x 3.898	2	\$290.00

Din-Rail Mount Modules

The Din-Rail Mount Modules provide a digitized option to replace many of our System Interface Cards, in a compact electronics package.

Din-Rail Mount Modules		Discount Schedule A		
Model Number	Description	Approx. Dim. H x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
MM3000-CRG	MICROMANAGER 3000 SERIES CENTER REFERENCE GENERATOR (DIN-RAIL MOUNTABLE)	4.400 x 6.181 x 2.362	2	\$1115.00
MM3000-PID	MICROMANAGER 3000 SERIES PROPORTIONAL INTEGRAL DERIVATIVE (DIN-RAIL MOUNTABLE)	4.400 x 6.181 x 2.362	2	\$1115.00
MM3000-CTCW	MICROMANAGER 3000 SERIES CONSTANT TENSION CENTER WINDER (DIN-RAIL MOUNTABLE)	4.400 x 6.181 x 2.362	2	\$1115.00
MM3010-MBS	MICROMANAGER 3010 SERIES MODBUS RTU I/O EXPANSION MODULE (DIN-RAIL MOUNTABLE)	4.400 x 6.181 x 2.362	2	\$945.00

CORTEX[®] LT Industrial System Controller

The **CORTEX[®] LT** is a general-purpose micro-controller with flexibility for many different applications. Driven by a powerful **DSP** (*digital signal processor*) the unit has the speed and processing capability to handle even the most difficult tasks. The internal 64K word EE Prom and 64K word RAM provide ample memory for firmware storage and data processing capacity. Each **CORTEX[®] LT** is supplied with MS-Windows (98 and higher) compatible **CORTEX[®] LT** Link Software and a serial cable for interface between the **CORTEX[®] LT** and an RS-232 port on a PC. The Link Software allows specific firmware to be selected, configured and downloaded to the **CORTEX[®] LT** hardware. The Link Software also allows for calibration, monitoring, program storage and I/O simulation.

CORTEX LT Industrial System Controller		Discount Schedule A		
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CLT2000-000	CORTEX LT SYSTEM CONTROLLER 115VAC POWER			\$1545.00
CLT2000-024	CORTEX LT SYSTEM CONTROLLER 24VDC POWER			\$1545.00

SONICTRAC[®] Series

Sonictrac Distance Measuring Unit

The Sonictrac Series supplies a NEMA 12 enclosed transducer assembly with a control circuit board for mounting in a customer supplied enclosure. A cable of the length specified below is supplied to connect the transducer to the control board. Typical applications are to measure roll diameter or web loop position for non-contact control functions such as tension or speed control. Model Numbers ending in "S" provide a stainless steel enclosure for the transducer to resist corrosion.

SONICTRAC Sonic Distance Measuring Unit			Discount Schedule A	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
SMU100-020	Sonictrac Control Board with NEMA 12 transducer enclosure and 20 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	7	\$1056.00
SMU100-040	Sonictrac Control Board with NEMA 12 transducer enclosure and 40 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	8	\$1084.00
SMU100-060	Sonictrac Control Board with NEMA 12 transducer enclosure and 60 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	8	\$1112.00
SMU100-080	Sonictrac Control Board with NEMA 12 transducer enclosure and 80 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	9	\$1140.00
SMU100-100	Sonictrac Control Board with NEMA 12 transducer enclosure and 100 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	9	\$1167.00
SMU100-02S	Sonictrac Control Board with stainless steel transducer enclosure and 20 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	8	\$1250.00
SMU100-04S	Sonictrac Control Board with stainless steel transducer enclosure and 40 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	9	\$1278.00
SMU100-06S	Sonictrac Control Board with stainless steel transducer enclosure and 60 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	9	\$1306.00
SMU100-08S	Sonictrac Control Board with stainless steel transducer enclosure and 80 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	10	\$1334.00
SMU100-10S	Sonictrac Control Board with stainless steel transducer enclosure and 100 Ft. cable	Control Board 9.5 x 7 x 2 Transducer Encl. 5.5 x 4.94 x 3.5	10	\$1362.00

SONICTRAC[®] Pro Series

Sonictrac Pro Distance Measuring Unit

The Sonictrac Pro Model STP200-000 is a distance measuring device that uses ultrasonic technology to detect and measure targets up to 30 feet away. An Environmental Grade electrostatic transducer combined with Carotron's microprocessor technology interface and processing circuitry provides reliable and accurate operation in a wide range of applications. This unit is equipped with 1 analog input, 1 analog output, 2 relay outputs, Teach input, CTL-CLK input, ModBus[®] communications and can operate from 120VAC.

SONICTRAC PRO Sonic Distance Measuring Unit			Discount Schedule A	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
STP200-000	SONICTRAC PRO PROGRAMMABLE DISTANCE MEASURING UNIT			\$1000.00

Dancer Duty Potentiometers

DDP01 and DDP02 Dancer Duty Potentiometers

These units supply an enclosed potentiometer assembly with foot mounting, a 1/2" diameter stainless steel shaft and screw terminals for all customer connections. Models are supplied with painted steel and stainless steel enclosures. Each type can also be purchased with or without internal limit switches that are actuated by adjustable cams.

Dancer Duty Potentiometers without limit switches			Discount Schedule B	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
DDP01-K005	5,000 OHM Dancer Pot., NEMA 12 painted steel enclosure, without limits	5.5 X 6 X 3.25 1.25 X 0.5 Dia. Shaft	4	\$422.00
DDP01-K010	10,000 OHM Dancer Pot., NEMA 12 painted steel enclosure, without limits	5.5 X 6 X 3.25 1.25 X 0.5 Dia. Shaft	4	\$422.00
DDPS1-K005	5,000 OHM Dancer Pot., NEMA 12 stainless steel enclosure, without limits	7.5 X 4 X 4.5 1.25 X 0.5 Dia. Shaft	7	\$737.00
DDPS1-K010	10,000 OHM Dancer Pot., NEMA 12 stainless steel enclosure, without limits	7.5 X 4 X 4.5 1.25 X 0.5 Dia. Shaft	7	\$737.00

Dancer Duty Potentiometers with two adjustable limit switches			Discount Schedule B	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
DDP02-K005	5,000 OHM Dancer Pot., NEMA 12 painted steel enclosure, with two adjustable limits	5.5 X 6 X 3.25 1.25 X 0.5 Dia. Shaft	4	\$580.00
DDP02-K010	10,000 OHM Dancer Pot., NEMA 12 painted steel enclosure, with two adjustable limits	5.5 X 6 X 3.25 1.25 X 0.5 Dia. Shaft	4	\$580.00
DDPS2-K005	5,000 OHM Dancer Pot., NEMA 12 stainless steel enclosure, with two adjustable limits	7.5 X 4 X 4.5 1.25 X 0.5 Dia. Shaft	7	\$895.00
DDPS2-K010	10,000 OHM Dancer Pot., NEMA 12 stainless steel enclosure, with two adjustable limits	7.5 X 4 X 4.5 1.25 X 0.5 Dia. Shaft	7	\$895.00

Non-Contact Dancer Sensor

NCD01 and NCD02 Non-Contact Dancer Sensors

These units supply an enclosed analog proximity switch with a precision machined cam to provide a 1 to 9 VDC output based on angular shaft position. The NEMA 12 enclosure provides foot mounting, a 1/2" diameter stainless steel shaft and screw terminals for all customer connections. Dual conservatively sized flange bearings provide excellent maintenance free shaft support. Each type can also be purchased with or without internal limit switches that are actuated by adjustable cams.

Non-Contact Dancer Sensors			Discount Schedule B	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
NCD01-000	Non-Contact Dancer Sensor, without limits, NEMA 12 painted steel enclosure, 1-9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	7.5 X 4.25 X 3.25 1.25 X 0.5 Dia. Shaft	8	\$710.00
NCD02-000	Non-Contact Dancer Sensor, with two adjustable limits, NEMA 12 painted steel enclosure, 1-9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	7.5 X 4.25 X 3.25 1.25 X 0.5 Dia. Shaft	9	\$820.00

Washdown Duty Dancer Non-Contact Sensor

WDDC1, WDDV1, WDDC2 and WDDV2 Dancer Non-Contact Sensors

These units supply a NEMA 4X stainless steel enclosed analog proximity switch with a precision machined cam to provide a 4-20mA or 1 to 9 VDC output based on angular shaft position. The NEMA 4X enclosure provides foot mounting, a 1/2" diameter stainless steel shaft and watertight connectors for all customer connections. Models are supplied with connection cables as specified below. Each type can also be purchased with or without internal limit switches that are actuated by adjustable cams.

Washdown Duty Dancer Non-Contact Sensor without limit switches			Discount Schedule B	
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
WDDC1-020	Washdown Duty Dancer Non-Contact Sensor, 20Ft. cable, without limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1450.00
WDDC1-040	Washdown Duty Dancer Non-Contact Sensor, 40Ft. cable, without limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1485.00
WDDC1-060	Washdown Duty Dancer Non-Contact Sensor, 60Ft. cable, without limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1510.00
WDDC1-080	Washdown Duty Dancer Non-Contact Sensor, 80Ft. cable, without limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1540.00
WDDC1-100	Washdown Duty Dancer Non-Contact Sensor, 100Ft. cable, without limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1574.00
WDDV1-020	Washdown Duty Dancer Non-Contact Sensor, 20Ft. cable, without limits, NEMA 4X stainless steel enclosure 1-9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1450.00
WDDV1-040	Washdown Duty Dancer Non-Contact Sensor, 40Ft. cable, without limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1485.00
WDDV1-060	Washdown Duty Dancer Non-Contact Sensor, 60Ft. cable, without limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1510.00
WDDV1-080	Washdown Duty Dancer Non-Contact Sensor, 80Ft. cable, without limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1540.00
WDDV1-100	Washdown Duty Dancer Non-Contact Sensor, 100Ft. cable, without limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310° electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	9	\$1574.00

Washdown Duty Dancer Non-Contact Sensor

Washdown Duty Dancer Non-Contact Sensor with two adjustable limit switches		Discount Schedule B		
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
WDDC2-020	Washdown Duty Dancer Non-Contact Sensor, 20Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1635.00
WDDC2-040	Washdown Duty Dancer Non-Contact Sensor, 40Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1665.00
WDDC2-060	Washdown Duty Dancer Non-Contact Sensor, 60Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1695.00
WDDC2-080	Washdown Duty Dancer Non-Contact Sensor, 80Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1725.00
WDDC2-100	Washdown Duty Dancer Non-Contact Sensor, 100Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 4-20mA output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1755.00
WDDV2-020	Washdown Duty Dancer Non-Contact Sensor, 20Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1635.00
WDDV2-040	Washdown Duty Dancer Non-Contact Sensor, 40Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1665.00
WDDV2-060	Washdown Duty Dancer Non-Contact Sensor, 60Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1695.00
WDDV2-080	Washdown Duty Dancer Non-Contact Sensor, 80Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1725.00
WDDV2-100	Washdown Duty Dancer Non-Contact Sensor, 100Ft. cable, with two adjustable limits, NEMA 4X stainless steel enclosure, 1 to 9 VDC output, 310 ⁰ electrical rotation, requires 14 to 30 VDC power	8.39 X 4.25 X 4.36 1.5 X 0.5 Dia. Shaft	10	\$1755.00

Remote Operator Stations

Remote Operator Stations		Discount Schedule A		
Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
ROS100-000	E-Stop Push/Pull PB with 1 N.C. contact	4.33 x 3.15 x 2.55	2	\$200.00
ROS100-001	Stop PB with 1 N.O. & 1 N.C. contact	4.33 x 3.15 x 2.55	2	\$175.00
ROS100-002	Jog PB with 1 N.O. contact	4.33 x 3.15 x 2.55	2	\$175.00
ROS200-000	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact	5.51 x 3.15 x 2.55	3	\$250.00
ROS200-001	Jog Forward with 1 N.O. contact Jog Reverse with 1 N.O. contact	5.51 x 3.15 x 2.55	3	\$275.00
ROS300-000	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact 10K Ohm Pot., 1 turn with dial & knob	6.69 x 3.15 x 2.55	4	\$375.00
ROS300-001	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact 5K Ohm Pot., 1 turn with dial & knob	6.69 x 3.15 x 2.55	4	\$375.00
ROS300-002	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Jog PB with 1 N.O. contact	6.69 x 3.15 x 2.55	4	\$300.00
ROS300-003	Forward PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Reverse PB with 1 N.O. contact	6.69 x 3.15 x 2.55	4	\$300.00
ROS400-000	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Jog PB with 1 N.O. contact 10K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$450.00
ROS400-001	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Jog PB with 1 N.O. contact 5K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$450.00
ROS400-002	Forward PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Reverse PB with 1 N.O. contact 10K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$450.00
ROS400-003	Forward PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact Reverse PB with 1 N.O. contact 5K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$450.00
ROS400-004	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact E-Stop PB with 1 N.O. & 1 N.C. contact 10K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$500.00
ROS400-005	Start PB with 1 N.O. contact Stop PB with 1 N.O. & 1 N.C. contact FWD/REV Selector with 1 N.O. & 1 N.C. contact 10K Ohm Pot., 1 turn dial & knob	9.06 x 3.15 x 2.55	5	\$500.00

System Accessory Items

System Accessory Items		Discount Schedule A	
Part Number	Description	Approx. Shpg. Wt. (lbs.)	List Price
A10402-000	10,000 OHM single turn potentiometer assembly with potentiometer, knob, 0-100 dial plate and insulator	1	\$36.00
A10402-001	5,000 OHM single turn potentiometer assembly with potentiometer, knob, 0-100 dial plate and insulator	1	\$36.00
A10402-002	2,000 OHM single turn potentiometer assembly with potentiometer, knob, 0-100 dial plate and insulator	1	\$36.00
BKT1000-00	Potentiometer mounting bracket for A10402-XXX pot. Assemblies	1	\$13.00
HWA1015-01	Micrometer dial for use with 10 turn potentiometers POT2003-00 & POT2003-01	1	\$66.00
LAB1036-00	Speed Dial Plate for 22mm potentiometers POT2007-00 & POT2007-01	1	\$15.00
HWA1012-01	Black knob, 1.25" Diameter, for use with 1/4" Diameter shaft	1	\$6.50
HWA1042-00	Shaft coupling, 1/2" Diameter to 1/4" Diameter. (Used in DDP01 & DDP02 Dancer Pots.)	1	\$53.00
POT2003-00	10,000 OHM ten turn potentiometer	1	\$37.00
POT2003-01	5,000 OHM ten turn potentiometer	1	\$37.00
POT2006-00	Dancer Duty 10,000 OHM potentiometer with no mechanical stops	1	\$79.00
POT2006-01	Dancer Duty 5000 OHM potentiometer with no mechanical stops	1	\$79.00
POT2007-00	5,000 OHM single turn potentiometer assembly with screw terminals, know and dial for mounting in a 22mm diameter hole	1	\$105.00
POT2007-01	10,000 OHM single turn potentiometer assembly with screw terminals, know and dial for mounting in a 22mm diameter hole	1	\$105.00
REL1000-00	Relay, 4 pole, 5 Amp, Form-C contacts, 115 VAC coil w/LED	1	\$16.00
REL4000-00	Relay socket with screw terminals for use with REL1000-00	1	\$16.00
SUP2000-00	Snubber, 22 OHM – 0.1 mFD / 600 VDC capacitor for coil suppression, 115/230 VAC coils	1	\$4.50
TRX3004-00	Single phase control transformer, 250 VA, 240/480 VAC primary with 120 VAC secondary	7	\$237.00
TRX3004-01	Single phase control transformer, 500 VA, 240/480 VAC primary with 120 VAC secondary	10	\$290.00

Trooper[®] TDP500 Series

Single Phase Input Non-Regenerative DC Motor Controls

This series offers economical chassis and NEMA 4 enclosed models with standard logic for start, stop, and jog operation. Some models are also offered with manual reversing, torque/taper and isolated process follower. All Trooper[®] models are U.L. Listed.

1/8 – 2 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/8 – 1	1/4 - 2	TDP502-000	Chassis Only, Basic Model	8.5 x 7 x 3	4	\$274.00
1/8 – 1	1/4 - 2	TDP502-00T	Chassis Only With Torque / Taper	8.5 x 7 x 4.63	4	\$358.00
1/8 – 1	1/4 - 2	TDP502-0RT	Chassis Only With Torque / Taper and Manual Reversing	8.5 x 7 x 4.63	4	\$443.00
1/8 – 1	1/4 - 2	TDP502-0PF	Chassis Only With Isolated Process Follower Input (0-10VDC & 4-20 mA)	8.5 x 7 x 4.63	4	\$432.00
1/8 – 1	1/4 - 2	TDP502-E00	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. and Power On/Off Switch	8.5 x 7 x 6.5	8	\$427.00
1/8 – 1	1/4 - 2	TDP502-E0T	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. , Power On/Off Switch and Torque / Taper	8.5 x 7 x 6.5	8	\$500.00
1/8 – 1	1/4 - 2	TDP502-ERT	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. , Power On/Off Switch, Torque / Taper and Reversing	8.5 x 7 x 6.5	8	\$685.00
1/8 – 1	1/4 - 2	TDP502-EPF	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. ,Power On/Off Switch, Auto / Manual Switch, and Isolated Process Follower (0-10VDC & 4 - 20mA)	8.5 x 7 x 6.5	8	\$643.00

1/2 – 3 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
---	1/2 - 3	TDP503-000	Chassis Only, Basic Model	10.5 x 7 x 4.5	6	\$527.00
---	1/2 - 3	TDP503-00T	Chassis Only With Torque / Taper	10.5 x 7 x 6	6	\$548.00
---	1/2 - 3	TDP503-0RT	Chassis Only With Torque / Taper and Manual Reversing	10.5 x 7 x 6	6	\$674.00
---	1/2 - 3	TDP503-0PF	Chassis Only With Isolated Process Follower Input (0-10VDC & 4-20 mA)	10.5 x 7 x 6	6	\$569.00
---	1/2 - 3	TDP503-E00	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. and Power On/Off Switch	10.5 x 7 x 7.5	10	\$674.00
---	1/2 - 3	TDP503-E0T	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. , Power On/Off Switch and Torque / Taper	10.5 x 7 x 7.5	10	\$737.00
---	1/2 - 3	TDP503-ERT	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot. , Power On/Off Switch, Torque / Taper and Reversing	10.5 x 7 x 7.5	10	\$948.00

Trooper[®] TDP500 Series

Single Phase Input Non-Regenerative DC Motor Controls

1/2 – 3 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
---	1/2 - 3	TDP503-EPF	NEMA 4 Enclosed Model with Start PB, Stop PB, Jog PB, Speed Pot., Power On/Off Switch, Auto / Manual Switch, and Isolated Process Follower (0-10VDC & 4 -20mA)	10.5 x 7 x 7.5	10	\$864.00

Conversion Kits and Options				Discount Schedule A		
Option Number	Description	Compatible with These Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price	
TDP500-001	Torque / Taper Conversion Kit	TDP502-000, TDP502-E00	(mounts to drive)	1	\$158.00	
TDP500-002	Torque / Taper and Manual Reversing Conversion Kit	TDP502-000, TDP502-E00	(mounts to drive)	1	\$290.00	
TDP500-003	Remote Operator Panel with Start PB, Stop PB, Jog PB, Speed Pot and Power On/Off Switch	TDP502-000, TDP502-00T	8.5 x 6 x 2.25	3	\$316.00	
TDP500-004	Remote Operator Panel with Start PB, Stop PB, Jog PB, Speed Pot., Manual Rev. Switch and Power On/Off	TDP502-0RT	8.5 x 6 x 2.25	3	\$343.00	
TDP500-005	Process Follower Conversion Kit	TDP502-000	(mounts to drive)	1	\$343.00	

Note: Low voltage models for the TDP500 Series are available with 12/24 VAC input voltage for power. Designate model with -LV. Contact Carotron for price and availability.

ADP100 Series

Single Phase Input Non-Regenerative DC Motor Controls

This series offers chassis models that are very popular with OEM's and system integrators. The basic models offer simple yet reliable control functions that can be adapted to many different control schemes. Extended models offer rugged armature contactors for run/brake and contactor reversing operation. Options are offered for NEMA 1 and NEMA 12 enclosures as well as torque / taper control.

1/4 – 5 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/4 – 1	1/2 - 2	ADP102-000	Chassis Only, Basic Model	9 x 6.75 x 2.75	3	\$465.00
-----	3 - 5	ADP105-000	Chassis Only, Basic Model	11 x 9.5 x 3.25	8	\$780.00
1/4 – 1	1/2 - 2	ADP102-E01	NEMA 1 Enclosed Motor Control with Speed Pot., Line Fuses, and Power On / Off Switch	13 x 9 x 6	17	\$1200.00

ADP100 Series

Single Phase Input Non-Regenerative DC Motor Controls

1/4 – 5 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
----	3 - 5	ADP105-E02	NEMA 1 Enclosed Motor Control with Speed Pot., Line Fuses, and Power On / Off Switch	18 x 16 x 9	38	\$1500.00
1/4 – 1	----	ADP102-BC1	Run-Brake Model, Chassis only	13 x 8 x 6.75	10	\$995.00
----	1/4 - 2	ADP102-BC2	Run-Brake Model, Chassis Only	13 x 8 x 6.75	11	\$1085.00
----	3 - 5	ADP105-BC2	Run-Brake Model, Chassis Only	16 x 10 x 7.25	17	\$1535.00
1/4 – 1	----	ADP102-RC1	Contacting Reversing with DB Model, Chassis only	13 x 8 x 6.75	11	\$1405.00
----	1/4 - 2	ADP102-RC2	Contacting Reversing with DB Model, Chassis only	13 x 8 x 6.75	11	\$1535.00
----	3 - 5	ADP105-RC2	Contacting Reversing with DB Model, Chassis only	16 x 10 x 7.25	17	\$1865.00

Options for ADP100 Series 1/4 – 5 HP DC Motor Controls				Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price	
ADP100-001	Torque/Taper Option Card	All ADP100 Series	(mounts to drive)	1	\$130.00	
ADP100-E10	NEMA 1 Enclosure Option, No Operators	ADP102-BC1, ADP102-BC2, ADP102-RC1, ADP102-RC2	17 x 12 x 9	22	Call for Price	
ADP100-E11	NEMA 1 Enclosure Option with Start, Stop, and Speed Pot.	ADP102-BC1, ADP102-BC2	17 x 12 x 9	23	Call for Price	
ADP100-E12	NEMA 1 Enclosure Option with Forward, Stop, Reverse and Speed Pot.	ADP102-RC1, ADP102-RC2	17 x 12 x 9	23	Call for Price	
ADP100-E20	NEMA 12 Enclosure Option, No Operators	ADP102-BC1, ADP102-BC2, ADP102-RC1, ADP102-RC2	21 x 16 x 9.5	33	Call for Price	
ADP100-E21	NEMA 12 Enclosure Option with Start, Stop, and Speed Pot.	ADP102-BC1, ADP102-BC2	21 x 16 x 11	34	Call for Price	
ADP100-E22	NEMA 12 Enclosure Option with Forward, Stop Reverse and Speed Pot.	ADP102-RC1, ADP102-RC2	21 x 16 x 11	34	Call for Price	
ADP100-E30	NEMA 1 Enclosure Option, No Operators	ADP105-BC2, ADP105-RC2	21.1 x 16.2 x 10	35	Call for Price	

ADP100 Series

Single Phase Input Non-Regenerative DC Motor Controls

Options for ADP100 Series 1/4 – 5 HP DC Motor Controls				Discount Schedule A	
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
ADP100-E31	NEMA 1 Enclosure Option with Start, Stop, and Speed Pot.	ADP105-BC2	21.1 x 16.2 x 10	36	Call for Price
ADP100-E32	NEMA 1 Enclosure Option with Forward, Stop, Reverse and Speed Pot.	ADP105-RC2	21.1 x 16.2 x 10	36	Call for Price
ADP100-E40	NEMA 12 Enclosure Option, No Operators	ADP105-BC2, ADP105-RC2	25 x 20 x 9.5	45	\$1500.00
ADP100-E41	NEMA 12 Enclosure Option with Start, Stop, and Speed Pot.	ADP105-BC2	25 x 20 x 11	46	Call for Price
ADP100-E42	NEMA 12 Enclosure Option with Forward, Stop, Reverse and Speed Pot.	ADP105-RC2	25 x 20 x 11	46	Call for Price

NOTE: Options may be mounted and wired to standard models at no additional charge if specified at time of order.

Blazer[®] BDP400 Series

Single Phase Input Non-Regenerative DC Motor Controls

The Blazer Series is Carotron's best single-phase non-regenerative drive series. Chassis and NEMA 12 enclosed units are offered with fully isolated control circuits, logic for start, stop, jog, and an AC power contactor for safety disconnect for the power-bridge when the drive is stopped. All models include torque/taper, 4-20 MA process follower input, and interface for Carotron's DCM100-00 Drive Circuit Monitor. Models are offered with or without dynamic braking.

1/4 – 5 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/4 -1	1/2 -2	BDP402-000	Chassis Only, Basic Model	13 x 8 x 5.4	8	\$940.00
---	1/2 -5	BDP405-000	Chassis Only, Basic Model	17.5 x 12 x 7	20	\$1530.00
1/4 -1	1/2 -2	BDP402-E00	NEMA 12 Enclosed Model with Power On/Off Switch	13 x 8 x 6.7	15	\$1160.00
---	1/2 -5	BDP405-E00	NEMA 12 Enclosed Model with Power On/Off Switch	17.5 x 12 x 8.75	30	\$1645.00

Blazer[®] BDP400 Series

Single Phase Input Non-Regenerative DC Motor Controls

1/4 – 5 HP DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/4 -1	1/2 - 2	BDP402-E0C	NEMA 12 Enclosed Model with Speed Pot, Start PB, Stop PB, Jog PB and Power On/Off Switch	13 x 8 x 6.7	15	\$1240.00
---	1/2 - 5	BDP405-E0C	NEMA 12 Enclosed Model with Speed Pot, Start PB, Stop PB, Jog PB and Power On/Off Switch	17.5 x 12 x 8.75	30	\$1820.00
1/4 -1	1/2 - 2	BDP402-0B0	Run-Brake Model, Chassis Only	13 x 8 x 5.4	8	\$1000.00
---	1/2 - 5	BDP405-0B0	Run Brake Model, Chassis Only	17.5 x 12 x 7	20	\$1580.00
1/4 -1	1/2 - 2	BDP402-EB0	NEMA 12 Enclosed Run-Brake Model with Power On/Off Switch	13 x 8 x 6.7	15	\$1255.00
---	1/2 - 5	BDP405-EB0	NEMA 12 Enclosed Run-Brake Model with Power On/Off Switch	17.5 x 12 x 8.75	30	\$1765.00
1/4 -1	1/2 - 2	BDP402-EBC	NEMA 12 Enclosed Run-Brake Model with Speed Pot, Start PB, Stop PB, Jog PB, and Power On/Off Switch	13 x 8 x 6.7	15	\$1310.00
---	1/2 - 5	BDP405-EBC	NEMA 12 Enclosed Run-Brake Model with Speed Pot, Start PB, Stop PB, Jog PB, and Power On/Off Switch	17.5 x 12 x 8.75	30	\$1875.00

Drive Circuit Monitor

Drive Circuit Monitor

Custom digital voltmeter to monitor key circuit points for set-up and troubleshooting. Comes with padded carry case and guidebooks for all compatible models. Operates from 9VDC battery supplied with the unit.

Drive Circuit Monitor Option			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
DCM100-000	Drive Circuit Monitor	All Blazer Models All Blazer IV Models All Choice Models All Elite Models FR1000-000 Field Regulator	7.25 x 4.0 x 1.625	3	\$620.00

Economy DC Motor Controls

Single Phase Input

The C880800-00 control is a limited horse power non-regenerative motor control with armature feedback control only. A relay is supplied on the unit for cycling the speed reference for start and stop

Single Phase Input Non-Regenerative DC Motor Control				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/8 -1/4	---	C880800-00	Chassis Only, Basic Model	4.5 x 5.0 x 2.25	1	\$150.00

The D10425-000 and D10425-200 are full wave regenerative drives similar to the more powerful RCP200 Series. Current Limit range is 150% maximum. Units are supplied with right angle mounting brackets for compact back panel space requirements. Typical applications are traverse drives, small winders, and high duty cycle operations. Both models are U.L. Listed.

Single Phase Input Regenerative DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/8 -1/2	1/4 - 1	D10425-000	Chassis Only, Basic Model	11.5 x 2.25 x 8.5	4	\$530.00
1/4 - 1	1/2 - 2	D10425-200	Chassis Only, Basic Model	11.5 x 2.75 x 8.5	4	\$660.00

Trooper[®] IV TRC600 Series

Single Phase Input Regenerative DC Motor Controls

The Carotron Trooper IV TRC600 Series regenerative motor control provides full range four-quadrant speed and torque control for shunt wound and permanent magnet DC motors. Two models are offered which cover 1/8 to 1HP at 90 VDC armature and 1/4 to 2HP at 180 VDC armature for both chassis and NEMA 4 enclosed applications. Standard features include 2 wire and 3 wire Start /Stop logic, voltage controlled current limit and programmable coast, ramp and current limit stopping methods.

1/4 – 2 HP Regenerative DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/8-1	1/4 - 2	TRC602-000	Chassis only, basic model	10.5 x 7 x 4.25	7	\$845.00
1/8-1	1/4 - 2	TRC602-E0C	NEMA 4 enclosed model, with Start, Stop, Jog, Fwd / Rev and Power On / Off Operators	10.75 x 7.35 x 7.75	11	\$1110.00

RCP200 Series

Single Phase Input Regenerative DC Motor Controls

Rugged and reliable operation are key features of the RCP200 Series drives. Very conservative power bridge ratings for 190% current limit operation. Basic chassis models and contactor models offer a variety of solutions for OEM's and systems integrators.

1/4 – 5 HP Regenerative DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/4 -1	1/2 - 2	RCP202-000	Chassis Only, Basic Model	11 x 9 x 4	9	\$1070.00
1/4 -1	1/2 - 5	RCP205-000	Chassis Only, Basic Model	11 x 9 x 4	9	\$1275.00
1/4 -1	---	RCP202-BC1	Armature Contactor Chassis Model with Start, Stop and D.B.	16 x 10 x 7.5	18	\$1715.00
---	1/2 - 2	RCP202-BC2	Armature Contactor Chassis Model with Start, Stop and D.B.	16 x 10 x 7.5	18	\$1810.00
---	1/2 - 5	RCP205-BC2	Armature Contactor Chassis Model with Start, Stop and D.B.	16 x 10 x 7.5	18	\$2000.00

Blazer® IV BRC700 Series

Single Phase Input Regenerative DC Motor Controls

The Blazer IV Series is Carotron's best single phase regenerative drive series. Chassis and NEMA 4 enclosed units are offered with fully isolated control circuits, logic for forward, reverse, jog forward, jog reverse, emergency stop and an armature contactor for safety disconnect at stop. Models are offered with and without dynamic braking. An interface is provided for use with the DCM100-000 Drive Circuit Monitor for set-up and monitoring.

1/4 – 5 HP Regenerative DC Motor Controls				Discount Schedule A		
HP @ 115 VAC Input	HP @ 230 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
1/4 -1	1/2 - 2	BRC702-000	Chassis Only, Basic Regen Model	13.5 x 10.0 x 6.5	11	\$1580.00
---	1/2 - 5	BRC705-000	Chassis Only, Basic Regen Model	14.25 x 12 x 6.75	20	\$1845.00
1/4 -1	1/2 - 2	BRC702-0B0	Chassis Only, Regen Model with DB	13.5 x 10.0 x 6.5	11	\$1635.00
---	1/2 - 5	BRC705-0B0	Chassis Only, Regen Model with DB	14.25 x 12 x 6.75	20	\$1895.00
1/4 -1	1/2 - 2	BRC702-E00	NEMA 12 Enclosed Regen Model with Power On/Off, Power On Led, and E-Stop	13.5 x 10.8 x 8.0	22	\$1950.00
---	1/2 - 5	BRC705-E00	NEMA 12 Enclosed Regen Model with Power On/Off, Power On Led, and E-Stop	17.5 x 12.82 x 9.0	30	\$2530.00
1/4 -1	1/2 - 2	BRC702-EB0	NEMA 12 Enclosed Regen Model with Power On/Off, Power On Led, E-Stop and DB	13.5 x 10.8 x 8.0	22	\$1980.00
---	1/2 - 5	BRC705-EB0	NEMA 12 Enclosed Regen Model with Power On/Off, Power On Led, E-Stop and DB	17.5 x 12.82 x 9.0	30	\$2610.00
1/4 -1	1/2 - 2	BRC702-E0C	NEMA 12 Enclosed Regen Model with Power On/Off, Fwd, Rev, Jog Fwd, Jog Rev, E-Stop, Stop, Speed Pot, Power On Led, Fwd Led, and Rev. Led	13.5 x 10.8 x 8.0	22	\$2000.00
---	1/2 - 5	BRC705-E0C	NEMA 12 Enclosed Regen Model with Power On/Off, Fwd, Rev, Jog Fwd, Jog Rev, E-Stop, Stop, Speed Pot, Power On Led, Fwd Led, and Rev. Led	17.5 x 12.82 x 9.0	30	\$2580.00
1/4 -1	1/2 - 2	BRC702-EBC	NEMA 12 Enclosed Regen Model with Power On/Off, Fwd, Rev, Jog Fwd, Jog Rev, E-Stop, Stop, Speed Pot, Power On Led, Fwd Led, Rev. Led and DB	13.5 x 10.8 x 8.0	22	\$2035.00
---	1/2 - 5	BRC705-EBC	NEMA 12 Enclosed Regen Model with Power On/Off, Fwd, Rev, Jog Fwd, Jog Rev, E-Stop, Stop, Speed Pot, Power On Led, Fwd Led, Rev. Led and DB	17.5 x 12.82 x 9.0	30	\$2715.00

NOTE: See Drive Circuit Monitor DCM100-000 Option on DC Drives

Choice[®] CDC300 Series

Three Phase Input Non-Regenerative DC Motor Controls

The Choice Series offers a NEMA type D power supply with 3 SCR's and 4 diodes. The features and packaging of the basic models make the Choice excellent for retrofit applications. Each basic model has logic for emergency stop, stop, jog forward, jog reverse, forward and reverse. Logic is supplied to sequence external armature contactors that are not supplied in the basic model. Models are offered which supply armature contactors, a control transformer and back panel for optional equipment. Optional equipment may be added to the back panel as required for the application.

5 – 150 HP Non-Regenerative DC Motor Controls				Discount Schedule A		
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	CDC320-000	Chassis Only, Basic Model	23 x 12 x 8.5	35	\$3475.00
15-20	25-40	CDC340-000	Chassis Only, Basic Model	23 x 12 x 8.5	35	\$3910.00
25-30	50-60	CDC360-000	Chassis Only, Basic Model	23 x 12 x 8.5	35	\$4450.00
40	75	CDC375-000	Chassis Only, Basic Model	23 x 12 x 8.5	35	\$5160.00
50-75	100-150	CDC3150-000	Chassis Only, Basic Model	28 x 17 x 10.5	90	\$6250.00
5-7.5	10-15	CDC320-C15	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	33 x 27 x 11	100	\$5250.00
10	20	CDC320-C20	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	33 x 27 x 11	100	\$5500.00
15	25-30	CDC340-C30	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	33 x 27 x 11	100	\$6065.00
20	40	CDC340-C40	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	33 x 27 x 11	100	\$6250.00
25-30	50-60	CDC360-C60	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	33 x 27 x 11	105	\$6625.00
40	75	CDC375-C75	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	45 x 33 x 13	140	\$9750.00
50	100	CDC3150-C100	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	56 x 44 x 13	235	\$10975.00
60	125	CDC3150-C125	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	56 x 44 x 13	235	\$11750.00
75	150	CDC3150-C150	Run/Stop Chassis Model with Arm. Contactor & Control XFMR	56 x 44 x 13	235	\$12500.00

NOTE: See Drive Circuit Monitor DCM100-000 Option on DC Drives

Choice[®] CDC300 Series

Three Phase Input Non-Regenerative DC Motor Controls

5 – 150 HP Non-Regenerative DC Motor Controls				Discount Schedule A		
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-7.5	10-15	CDC320-R15	Reversing Chassis Model with Arm. Contactors & Control XFMR	33 x 27 x 11	110	\$5940.00
10	20	CDC320-R20	Reversing Chassis Model with Arm. Contactors & Control XFMR	33 x 27 x 11	110	\$6250.00
15	25-30	CDC340-R30	Reversing Chassis Model with Arm. Contactors & Control XFMR	33 x 27 x 11	110	\$6690.00
20	40	CDC340-R40	Reversing Chassis Model with Arm. Contactors & Control XFMR	33 x 27 x 11	110	\$7660.00
25-30	50-60	CDC360-R60	Reversing Chassis Model with Arm. Contactors & Control XFMR	33 x 27 x 11	115	\$8065.00
40	75	CDC375-R75	Reversing Chassis Model with Arm. Contactors & Control XFMR	45 x 33 x 13	160	\$11375.00
50	100	CDC3150-R100	Reversing Chassis Model with Arm. Contactors & Control XFMR	56 x 44 x 13	260	\$13250.00
60	125	CDC3150-R125	Reversing Chassis Model with Arm. Contactors & Control XFMR	56 x 44 x 13	260	\$14625.00
75	150	CDC3150-R150	Reversing Chassis Model with Arm. Contactors & Control XFMR	56 x 44 x 13	260	\$15500.00

Disconnect Switch Options

Disconnect Switch Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3DS-150	150 Amp, 600 VAC, 3PH, Molded Case Switch	CDC320-C15, CDC320-C20 CDC340-C30, CDC340-C40 CDC360-C60, CDC375-C75 CDC320-R15, CDC320-R20 CDC340-R30, CDC340-R40 CDC360-R60, CDC375-R75	(Mounts to Drive)	5	Call for Price
CDC3DS-225	225 Amp, 600 VAC, 3PH, Molded Case Switch	CDC3150-C100, CDC3150-C125 CDC3150-R100, CDC3150-R125	(Mounts to Drive)	7	Call for Price
CDC3DS-400	400 Amp, 600 VAC, 3PH, Molded Case Switch	CDC3150-C150, CDC3150-R150	(Mounts to Drive)	15	Call for Price

Choice[®] CDC300 Series

Enclosure Options

Enclosure Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3EN-001	NEMA 12 Enclosure	CDC320-C15, CDC320-R15 CDC320-C20, CDC320-R20 CDC340-C30, CDC340-R30 CDC340-C40, CDC340-R40 CDC360-C60, CDC360-R60	36 x 30 x 12	95	Call for Price
CDC3EN-002	NEMA 12 Enclosure	CDC75-C75, CDC75-R75	48 x 36 x 16	155	Call for Price
CDC3EN-003	NEMA 12 Enclosure	CDC3150-C100, CDC3150-R100 CDC3150-C125, CDC3150-R125 CDC3150-C150, CDC3150-R150	60 x 48 x 16	395	Call for Price
CDC3EN-H01	NEMA 12 Enclosure with door mounted disconnect handle mechanism	CDC3DS-150 Option with any of the following drives: CDC320-C15, CDC320-R15 CDC320-C20, CDC320-R20 CDC340-C30, CDC340-R30 CDC340-C40, CDC340-R40 CDC360-C60, CDC360-R60	36 x 30 x 14.5	100	Call for Price
CDC3EN-H02	NEMA 12 Enclosure with door mounted disconnect handle mechanism	CDC3DS-150 Option with any of the following drives: CDC75-C75, CDC75-R75	48 x 36 x 18.5	160	Call for Price
CDC3EN-H03	NEMA 12 Enclosure with door mounted disconnect handle mechanism	CDC3DS-225 Option with any of the following drives: CDC3150-C100, CDC3150-R100 CDC3150-C125, CDC3150-R125	60 x 48 x 18.5	400	Call for Price
CDC3EN-H04	NEMA 12 Enclosure with door mounted disconnect handle mechanism	CDC3DS-400 Option with any of the following drives: CDC3150-C150, CDC3150-R150	60 x 48 x 18.5	400	Call for Price

Choice[®] CDC300 Series

Blower Starter Options

Blower Starter Options			Discount Schedule A		
Option Number	Description	Compatible with these Blower Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3BS-001	0.6 to 1.0 Amp Overload Range for Single Phase AC use	MTP-FVB3180, 230VAC, 1 PH	(mounts to –Cxx or –Rxx Models)	1	Call for Price
CDC3BS-002	0.4 to 0.6 Amp Overload Range for Three Phase AC use	MTP-FVB3210, 460VAC, 3PH MTP-FVB3250, 460VAC, 3PH	(mounts to –Cxx or –Rxx Models)	1	Call for Price
CDC3BS-003	0.6 to 1.0 Amp Overload Range for Three Phase AC use	MTP-FVB3210, 230 VAC, 3 PH MTP-FVB3250, 230 VAC, 3 PH MTP-FVB4280, 460 VAC, 3 PH	(mounts to –Cxx or –Rxx Models)	1	Call for Price
CDC3BS-004	1.4 to 1.8 Amp Overload Range for Three Phase AC use	MTP-FVB4280, 230 VAC, 3 PH MTP-FVB6320, 460 VAC, 3 PH	(mounts to –Cxx or –Rxx Models)	1	Call for Price
CDC3BS-005	2.8 to 4.0 Amp Overload Range for Three Phase AC use	MTP-FVB6320, 230 VAC, 3 PH MTP-FVB6400, 230 VAC, 3 PH	(mounts to –Cxx or –Rxx Models)	1	Call for Price

Field Economy and Supply Options

Field Economy and Supply Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3FE-001	Field Economy Unit 150 VDC for 230 VAC 3 PH Input 300 VDC for 460 VAC 3 PH Input	All Choice Models with 230 / 460 VAC Input	9.6 x 5.5 x 4.375 (mounts to -Cxx or -Rxx Models)	3	\$560.00
CDC3FE-002	Field Economy Unit 200 VDC for 230 VAC 1 PH Input	All Choice Models with 230 VAC Input	9.6 x 5.5 x 4.375 (mounts to -Cxx or -Rxx Models)	3	\$560.00
CDC3FE-003	Field Economy Unit 240 VDC for 230 VAC 3 PH Input	All Choice Models with 230 VAC Input	9.6 x 5.5 x 4.375 (mounts to -Cxx or -Rxx Models)	3	\$640.00
CDC3FS-000	Field Supply Unit 150 / 240 VDC for 230 VAC 3 PH Input	All Choice Models with 230 VAC Input	9.6 x 5.5 x 3.375 (mounts to -Cxx or -Rxx Models)	3	\$445.00
FR1000-000	Field Regulator Unit Provides automatic crossover for extended speed range. Also provides manual control. 150 – 300 VDC @ 10 Amps Max	All Choice Models 150VDC w/ 230VAC Input 300VDC w/460VAC Input	11.5 x 7.25 x 6.625 (mounts to -Cxx or -Rxx Models)	10	\$1170.00
FR3500-000	Field Regulator Unit Provides automatic crossover for extended speed range. Also provides manual control. 150 – 300 VDC @ 35 Amps Max	All Choice Models 150VDC w/ 230VAC Input 300VDC w/460VAC Input	11.5 x 7.25 x 6.625 (mounts to -Cxx or -Rxx Models)	10	\$1365.00

Choice[®] CDC300 Series

Dynamic Braking Options

240 VDC Dynamic Braking Options				Discount Schedule A	
Option Number	Description	Compatible with these Motor Ratings	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3BR-205	NEMA 12 Enclosed Brake Resistor	5HP, 240 VDC Arm.	18.25 x 5.50 x 4.26	10	Call for Price
CDC3BR-207	NEMA 12 Enclosed Brake Resistor	7.5HP, 240 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
CDC3BR-210	NEMA 12 Enclosed Brake Resistor	10HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	19	Call for Price
CDC3BR-215	NEMA 12 Enclosed Brake Resistor	15HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	20	Call for Price
CDC3BR-220	NEMA 12 Enclosed Brake Resistor	20HP, 240 VDC Arm.	24.25 x 9.50 x 8.25	30	Call for Price
CDC3BR-225	NEMA 12 Enclosed Brake Resistor	25HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	27	Call for Price
CDC3BR-230	NEMA 12 Enclosed Brake Resistor	30HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	27	Call for Price
CDC3BR-240	Expanded Metal Enclosed Brake Resistor	40HP, 240 VDC Arm.	18.5 x 7.0 x 5.0	13	Call for Price
CDC3BR-275	Expanded Metal Enclosed Brake Resistor	50HP, 240 VDC Arm. 60HP, 240 VDC Arm. 75HP, 240 VDC Arm.	18.5 x 7.0 x 5.0	15	Call for Price

500 VDC Dynamic Braking Options				Discount Schedule A	
Option Number	Description	Compatible with these Motor Ratings	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3BR-405	NEMA 12 Enclosed Brake Resistor	5HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	10	Call for Price
CDC3BR-407	NEMA 12 Enclosed Brake Resistor	7.5HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
CDC3BR-410	NEMA 12 Enclosed Brake Resistor	10HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
CDC3BR-415	NEMA 12 Enclosed Brake Resistor	15HP, 500 VDC Arm.	24.25 x 7.50 x 6.25	20	Call for Price
CDC3BR-420	NEMA 12 Enclosed Brake Resistor	20HP, 500 VDC Arm.	24.25 x 7.50 x 6.25	22	Call for Price
CDC3BR-425	NEMA 12 Enclosed Brake Resistor	25HP, 500 VDC Arm.	24.25 x 9.50 x 8.25	32	Call for Price
CDC3BR-430	NEMA 12 Enclosed Brake Resistor	30HP, 500 VDC Arm.	24.25 x 9.50 x 8.25	32	Call for Price
CDC3BR-440	NEMA 12 Enclosed Brake Resistor	40HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	61	Call for Price
CDC3BR-450	NEMA 12 Enclosed Brake Resistor	50HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	72	Call for Price
CDC3BR-460	NEMA 12 Enclosed Brake Resistor	60HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	72	Call for Price
CDC3BR-475	Expanded Metal Enclosed Brake Resistor	75HP, 500 VDC Arm.	18.5 x 13.0 x 5.0	20	Call for Price
CDC3BR-4150	Expanded Metal Enclosed Brake Resistor	100HP, 500VDC Arm. 125HP, 500VDC Arm. 150HP, 500VDC Arm.	18.5 x 13.0 x 5.0	24	Call for Price

Elite[®] E06000 / E12000 Series

Three Phase Input Non-Regenerative & Regenerative DC Motor Controls

The Elite Series offers 6 SCR E06000 model non-regenerative controls and E12000 models of 12 SCR regenerative controls for NEMA type C and D power supply rated motors. Each E06000 basic model supplies logic for emergency stop, ramp stop, run, and jog functions, while the E12000 model supply the same logic plus forward / reverse logic by selector switch or speed reference polarity. All models come standard with line fuses and field economy. Basic models do not include an armature contactor or 115 VAC control transformer. Models that have a "-Cxx" designation include the armature contactor and control transformer mounted and wired to a basic drive on a metal backplate.

5 – 150 HP Non-Regenerative DC Motor Controls				Discount Schedule A		
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	E06020-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	65	\$3780.00
15-20	25-40	E06040-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	65	\$4085.00
25-30	50-60	E06060-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	65	\$4335.00
40	75	E06075-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	65	\$5000.00
50	100	E06100-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	70	\$6055.00
60	125	E06125-000	Basic Non-Regen Chassis Model	22.5x12.25 x11.0	70	\$6220.00
75	150	E06150-000	Basic Non-Regen Chassis Model	26.5x12.25 x11.0	75	\$6445.00
5-10	10-20	E06020-C20	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$5335.00
15-20	25-40	E06040-C40	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$6195.00
25-30	50-60	E06060-C60	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$6445.00
40	75	E06075-C75	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	165	\$7780.00
50	100	E06100-C100	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	45 x 33 x 12	180	\$9445.00
60	125	E06125-C125	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	56 x 44 x 12	190	\$10225.00
75	150	E06150-C150	Run/Stop Non-Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	56 x 44 x12	200	\$11335.00

Note : See Drive Circuit Monitor Option DCM100-000 on DC Drives

Elite[®] E06000 / E12000 Series

5 – 150 HP Regenerative DC Motor Controls				Discount Schedule A		
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	E12020-000	Basic Regen Chassis Model	22.5x12.25 x11.0	65	\$4445.00
15-20	25-40	E12040-000	Basic Regen Chassis Model	22.5x12.25 x11.0	65	\$4725.00
25-30	50-60	E12060-000	Basic Regen Chassis Model	22.5x12.25 x11.0	65	\$5195.00
40	75	E12075-000	Basic Regen Chassis Model	22.5x12.25 x11.0	65	\$5835.00
50	100	E12100-000	Basic Regen Chassis Model	22.5x12.25 x11.0	70	\$6945.00
60	125	E12125-000	Basic Regen Chassis Model	22.5x12.25 x11.0	70	\$7165.00
75	150	E12150-000	Basic Regen Chassis Model	26.5x12.25 x11.0	75	\$7665.00
5-10	10-20	E12020-C20	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$6000.00
15-20	25-40	E12040-C40	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$6835.00
25-30	50-60	E12060-C60	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	125	\$7310.00
40	75	E12075-C75	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	39 x 33 x 12	165	\$8615.00
50	100	E12100-C100	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	45 x 33 x 12	180	\$10335.00
60	125	E12125-C125	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	56 x 44 x 12	190	\$11165.00
75	150	E12150-C150	Fwd/Rev Regen Chassis Model w/Arm Cntr. & Ctrl. Xfmr.	56 x 44 x12	200	\$12560.00

Note : See Drive Circuit Monitor Option DCM100-000 on DC Drives

Elite[®] E06000 / E12000 Series

Disconnect Switch Options

Disconnect Switch Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
E612DS-150	150 Amp, 600 VAC, 3PH, Molded Case Switch	E06020-C20, E06040-C40 E06060-C60, E06075-C75 E12020-C20, E12040-C40 E12060-C60, E12075-C75	(Mounts to Drive)	5	Call for Price
E612DS-225	225 Amp, 600 VAC, 3PH, Molded Case Switch	E06100-C100, E12100-C100 E06125-C125, E12125-C125	(Mounts to Drive)	7	Call for Price
E612DS-400	400 Amp, 600 VAC, 3PH, Molded Case Switch	E06150-C150, E12150-C150	(Mounts to Drive)	15	Call for Price

Blower Starter Options

Blower Starter Options			Discount Schedule A		
Option Number	Description	Compatible with these Blower Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
E612BS-001	0.6 to 1.0 Amp Overload Range for Single Phase AC use	MTP-FVB3180, 230VAC, 1 PH	(mounts to -Cxx or -Rxx Models)	1	Call for Price
E612BS-002	0.4 to 0.6 Amp Overload Range for Three Phase AC use	MTP-FVB3210, 460VAC, 3PH MTP-FVB3250, 460VAC, 3PH	(mounts to -Cxx or -Rxx Models)	1	Call for Price
E612BS-003	0.6 to 1.0 Amp Overload Range for Three Phase AC use	MTP-FVB3210, 230 VAC, 3 PH MTP-FVB3250, 230 VAC, 3 PH MTP-FVB4280, 460 VAC, 3 PH	(mounts to -Cxx or -Rxx Models)	1	Call for Price
E612BS-004	1.4 to 1.8 Amp Overload Range for Three Phase AC use	MTP-FVB4280, 230 VAC, 3 PH MTP-FVB6320, 460 VAC, 3 PH MTP-FVB6400, 460 VAC, 3 PH	(mounts to -Cxx or -Rxx Models)	1	Call for Price
E612BS-005	2.8 to 4.0 Amp Overload Range for Three Phase AC use	MTP-FVB6320, 230 VAC, 3 PH MTP-FVB6400, 230 VAC, 3 PH MTP-FVB8500, 460 VAC, 3 PH	(mounts to -Cxx or -Rxx Models)	1	Call for Price

Elite[®] E06000 / E12000 Series

Enclosure Options

Enclosure Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
E612EN-001	NEMA 12 Enclosure	E06020-C20, E12020-C20 E06040-C40, E12040-C40 E06060-C60, E12060-C60 E06075-C75, E12075-C75	42 x 36 x 12	130	Call for Price
E612EN-002	NEMA 12 Enclosure	E06100-C100, E12100-C100	48 x 36 x 16	155	Call for Price
E612EN-003	NEMA 12 Enclosure	E06125-C125, E12125-C125 E06150-C150, E12150-C150	60 x 48 x 16	395	Call for Price
E612EN-004	Blower/Filter Cooled Enclosure	E06200-C200, E12200-C200 E06250-C250, E12250-C250 E06300-C300, E12300-C300	72 x 60 x 16	600	Call for Price
E612EN-H01	NEMA 12 Enclosure with door mounted disconnect handle mechanism	E612DS-150 Option for: E06020-C20, E12020-C20 E06040-C40, E12040-C40 E06060-C60, E12060-C60 E06075-C75, E12075-C75	42 x 30 x 12	135	Call for Price
E612EN-H02	NEMA 12 Enclosure with door mounted disconnect handle mechanism	E612DS-225 Option for: E06100-C100, E12100-C100	48 x 36 x 16	160	Call for Price
E612EN-H03	NEMA 12 Enclosure with door mounted disconnect handle mechanism	E612DS-225 Option for: E06125-C125, E12125-C125	60 x 48 x 16	400	Call for Price
E612EN-H04	NEMA 12 Enclosure with door mounted disconnect handle mechanism	E612DS-400 Option for E06150-C150, E12150-C150	60 x 48 x 16	605	Call for Price

Field Supply Options

Field Supply Options			Discount Schedule A		
Option Number	Description	Compatible with these Models	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
CDC3FE-003	Field Economy Unit 240 VDC for 230 VAC 3 PH Input	All Elite Models with 230 VAC Input	9.6 x 5.5 x 4.375 (mounts to -Cxx)	3	\$640.00
CDC3FS-000	Field Supply Unit 150 / 240 VDC for 230 VAC 3 PH Input	All Elite Models with 230 VAC Input	9.6 x 5.5 x 3.375 (mounts to -Cxx)	3	\$445.00
FR1000-000	Field Regulator Unit Provides automatic crossover for extended speed range. Also provides manual control. 150 – 300 VDC @ 10 Amps Max	All Elite Models 150VDC w/ 230VAC Input 300VDC w/460VAC Input	11.5 x 7.25 x 6.625 (mounts to -Cxx)	10	\$1170.00
FR3500-000	Field Regulator Unit Provides automatic crossover for extended speed range. Also provides manual control. 150 – 300 VDC @ 35 Amps Max	All Elite Models 150VDC w/ 230VAC Input 300VDC w/460VAC Input	11.5 x 7.25 x 6.625 (mounts to -Cxx)	10	\$1365.00

Elite[®] E06000 / E12000 Series

Dynamic Braking Options

240 VDC Dynamic Braking Options				Discount Schedule A	
Option Number	Description	Compatible with these Motor Ratings	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
E612BR-205	NEMA 12 Enclosed Brake Resistor	5HP, 240 VDC Arm.	18.25 x 5.50 x 4.26	10	Call for Price
E612BR-207	NEMA 12 Enclosed Brake Resistor	7.5HP, 240 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
E612BR-210	NEMA 12 Enclosed Brake Resistor	10HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	19	Call for Price
E612BR-215	NEMA 12 Enclosed Brake Resistor	15HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	20	Call for Price
E612BR-220	NEMA 12 Enclosed Brake Resistor	20HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	30	Call for Price
E612BR-225	NEMA 12 Enclosed Brake Resistor	25HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	27	Call for Price
E612BR-230	NEMA 12 Enclosed Brake Resistor	30HP, 240 VDC Arm.	24.25 x 7.50 x 6.25	27	Call for Price
E612BR-240	Expanded Metal Enclosed Brake Resistor	40HP, 240 VDC Arm.	18.5 x 7.0 x 5.0	13	Call for Price
E612BR-275	Expanded Metal Enclosed Brake Resistor	50HP, 240 VDC Arm. 60HP, 240 VDC Arm 75HP, 240 VDC Arm.	18.5 x 7.0 x 5.0	15	Call for Price
E612BR-2100	Expanded Metal Enclosed Brake Resistor	100HP, 240 VDC Arm.	22.0 x 13.0 x 5.0	25	Call for Price
E612BR-2125	Expanded Metal Enclosed Brake Resistor	125HP, 240 VDC Arm.	22.0 x 10.0 x 10.0	45	Call for Price
E612BR-2150	Expanded Metal Enclosed Brake Resistor	150HP, 240 VDC Arm.	22.0 x 10.0 x 10.0	48	Call for Price

500 VDC Dynamic Braking Options			Discount Schedule A		
Option Number	Description	Compatible with these Motor Ratings	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
E612BR-405	NEMA 12 Enclosed Brake Resistor	5HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	10	Call for Price
E612BR-407	NEMA 12 Enclosed Brake Resistor	7.5HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
E612BR-410	NEMA 12 Enclosed Brake Resistor	10HP, 500 VDC Arm.	18.25 x 5.50 x 4.26	11	Call for Price
E612BR-415	NEMA 12 Enclosed Brake Resistor	15HP, 500 VDC Arm.	24.25 x 7.50 x 6.25	20	Call for Price
E612BR-420	NEMA 12 Enclosed Brake Resistor	20HP, 500 VDC Arm.	24.25 x 7.50 x 6.25	22	Call for Price
E612BR-425	NEMA 12 Enclosed Brake Resistor	25HP, 500 VDC Arm.	24.25 x 9.50 x 8.25	32	Call for Price
E612BR-430	NEMA 12 Enclosed Brake Resistor	30HP, 500 VDC Arm.	24.25 x 9.50 x 8.25	32	Call for Price
E612BR-440	NEMA 12 Enclosed Brake Resistor	40HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	61	Call for Price
E612BR-450	NEMA 12 Enclosed Brake Resistor	50HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	72	Call for Price
E612BR-460	NEMA 12 Enclosed Brake Resistor	60HP, 500 VDC Arm.	36.3 x 13.5 x 12.3	72	Call for Price
E612BR-475	Expanded Metal Enclosed Brake Resistor	75HP, 500 VDC Arm.	18.5 x 13.0 x 5.0	20	Call for Price
E612BR-4150	Expanded Metal Enclosed Brake Resistor	100HP, 500VDC Arm. 125HP, 500VDC Arm. 150HP, 500VDC Arm.	18.5 x 13.0 x 5.0	24	Call for Price

Elite[®] PRO EPN / EPR Series

Three Phase Input Non-Regenerative & Regenerative DC Motor Controls

The Elite PRO Series offers 6 SCR EPN model non-regenerative controls and EPR models of 12 SCR regenerative controls for NEMA type C and D power supply rated motors. All units are microprocessor controlled and digitally programmable. Each unit is supplied with a 4 line x 20 character backlit LCD keypad for programming. Optional software for computer programming is also available. All models come standard with a field economy / field crossover circuit. Basic models do not include AC input protection, an armature contactor or 115 VAC control transformer.

5 – 600 HP Non-Regenerative DC Motor Controls					Discount Schedule A	
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	EPN020-000	Basic Non-Regen Chassis Model	15 x10.4 x 8.5	40	\$3780.00
15-20	25-40	EPN040-000	Basic Non-Regen Chassis Model	15 x10.4 x 8.5	40	\$4085.00
25-30	50-60	EPN060-000	Basic Non-Regen Chassis Model	15 x10.4 x 8.5	40	\$4350.00
40	75	EPN075-000	Basic Non-Regen Chassis Model	22 x 10.8 x 10.7	55*	\$5000.00
50	100	EPN100-000	Basic Non-Regen Chassis Model	22 x 10.8 x 10.7	55*	\$6055.00
60	125	EPN125-000	Basic Non-Regen Chassis Model	22 x 10.8 x 10.7	55*	\$6220.00
75	150	EPN150-000	Basic Non-Regen Chassis Model	22 x 10.8 x 10.7	55*	\$6445.00
100	200	EPN200-000	Basic Non-Regen Chassis Model	27.6 x 10.5 x 13.8	90	\$8890.00
125	250	EPN250-000	Basic Non-Regen Chassis Model	27.6 x 10.5 x 13.8	90	\$9670.00
150	300	EPN300-000	Basic Non-Regen Chassis Model	27.6 x 10.5 x 13.8	90	\$10890.00
200	400	EPN400-000	Basic Non-Regen Chassis Model	27.6 x 10.5 x 13.8	90	\$15350.00
250	500	EPN500-000	Basic Non-Regen Chassis Model	32.7 x 15.5 x 17.1		\$17225.00
300	600	EPN600-000	Basic Non-Regen Chassis Model	32.7 x 15.5 x 17.1		\$21100.00

5 – 600 HP Regenerative DC Motor Controls					Discount Schedule A	
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	EPR020-000	Basic Regen Chassis Model	15 x10.4 x 8.5	40	\$4450.00
15-20	25-40	EPR040-000	Basic Regen Chassis Model	15 x10.4 x 8.5	40	\$4725.00
25-30	50-60	EPR060-000	Basic Regen Chassis Model	15 x10.4 x 8.5	40	\$5200.00
40	75	EPR075-000	Basic Regen Chassis Model	22 x 10.8 x 10.7	55*	\$5850.00
50	100	EPR100-000	Basic Regen Chassis Model	22 x 10.8 x 10.7	55*	\$6950.00
60	125	EPR125-000	Basic Regen Chassis Model	22 x 10.8 x 10.7	55*	\$7170.00
75	150	EPR150-000	Basic Regen Chassis Model	22 x 10.8 x 10.7	55*	\$7670.00
100	200	EPR200-000	Basic Regen Chassis Model	27.6 x 10.5 x 13.8	92	\$10670.00
125	250	EPR250-000	Basic Regen Chassis Model	27.6 x 10.5 x 13.8	92	\$11780.00
150	300	EPR300-000	Basic Regen Chassis Model	27.6 x 10.5 x 13.8	92	\$13000.00
200	400	EPR400-000	Basic Regen Chassis Model	27.6 x 10.5 x 13.8	92	\$16675.00
250	500	EPR500-000	Basic Regen Chassis Model	32.7 x 15.5 x 17.1		\$20400.00
300	600	EPR600-000	Basic Regen Chassis Model	32.7 x 15.5 x 17.1		\$23400.00

*55 lbs. actual weight; 72 lbs. boxed

Line Fuse Kits

Three rectifier line fuses with fuse holders for protection of EPN and EPR Series drives.

Line Fuse Kits				Discount Schedule A		
HP @ 230 VAC Input	HP @ 460 VAC Input	Model Number	Description	Approx. Dim. L x W x D (in.)	Approx. Shpg. Wt. (lbs.)	List Price
5-10	10-20	EPFK-020	Use with EPN020-000 & EPR020-000			\$200.00
15-20	25-40	EPFK-040	Use with EPN040-000 & EPR040-000			\$220.00
25-30	50-60	EPFK-060	Use with EPN060-000 & EPR060-000			\$270.00
40	75	EPFK-075	Use with EPN075-000 & EPR075-000			\$300.00
50	100	EPFK-100	Use with EPN100-000 & EPR100-000			\$335.00
60	125	EPFK-125	Use with EPN125-000 & EPR125-000			\$380.00
75	150	EPFK-150	Use with EPN150-000 & EPR150-000			\$415.00
100	200	EPFK-200	Use with EPN200-000 & EPR200-000			\$570.00
125	250	EPFK-250	Use with EPN250-000 & EPR250-000			\$670.00
150	300	EPFK-300	Use with EPN300-000 & EPR300-000			\$890.00
200	400	EPFK-400	Use with EPN400-000 & EPR400-000			\$1450.00
250	500	EPFK-500	Use with EPN500-000 & EPR500-000			\$1670.00
300	600	EPFK-600	Use with EPN600-000 & EPR600-000			Call for Price

Edge Guider

Edge Guider

The EG1000-000 Edge Guider is a linear actuator controller designed to handle 90 VDC armature P.M. motors up to ½ HP and 180 VDC P.M. motors up to 1 HP, that are used to operate a linear actuator in a web edge guiding application.

Edge Guider		Discount Schedule A		
Option Number	Description	Approx. Dim. L x W x H (in.)	Approx. Shpg. Wt. (lbs.)	List Price
EG1000-000	Proportional Edge Guider Control	8 x 10 x 2.125	3	\$1085.00

Custom DC Drives and Controls

Carotron has many years of experience developing custom drives and controls. Some units are simply variations of our standard products that incorporate additional relay logic or machine functions to simplify the customer's installation and start-up process. The added component integration reduces the customer labor costs and gives them a proprietary unit for which they control the sales and marketing. Many times our customer's model number, logo or company name is marked on the custom unit to help identify the product.

Other custom designs involve complete product development such as battery charges, high current power supplies, replacements for obsolete products, annunciator panels, relay logic panels, timer controls and surge suppressers. Carotron's engineering staff can work with you to develop specifications for your application requirements.

Carotron also provides custom-engineered systems that are built by our UL Listed panel shop. These systems cover a wide range of applications including the following type:

- Center Winder Controls
- Surface Winder Controls
- Multi-motor master reference systems
- Tach and Encoder follower systems
- Dancer PID Control systems
- Loadcell Tension Control systems
- PLC Logic systems
- HMI Interface
- Low Speed Center Winders

We can provide Carotron products for the system or work with components that the customer specifies.

Field Service

Field Service and start-up assistance are available from Carotron. Please contact Dan Stroud of Carotron at 888-286-8614 or 803-286-8614 for current service rates and to schedule service assistance.

You can schedule service during our normal business hours of 8 AM to 5 PM Monday through Friday. For assistance after normal business hours call 803-320-1047 or 803-320-1048.

Standard Terms & Conditions of Sale

1. General

The Standard Terms and Conditions of Sale of Carotron, Inc. (hereinafter called "Company") are set forth as follows in order to give the Company and the Purchaser a clear understanding thereof. No additional or different terms and conditions of sale by the Company shall be binding upon the Company unless they are expressly consented to by the Company in writing. The acceptance by the company of any order of the Purchaser is expressly conditioned upon the Purchaser's agreement to said Standard Terms and Conditions. The acceptance or acknowledgment, written, oral, by conduct or otherwise, by the Company of the Purchaser's order shall not constitute written consent by the Company to addition to or change in said Standard Terms and Conditions.

2. Prices

Prices, discounts, allowances, services and commissions are subject to change without notice. Prices shown on any Company published price list and other published literature issued by the Company are not offers to sell and are subject to express confirmation by written quotation and acknowledgment. All orders of the Purchaser are subject to acceptance, which shall not be effective unless made in writing by an authorized Company representative at its office in Heath Springs, SC. The Company may refuse to accept any order for any reason whatsoever without incurring any liability to the Purchaser. The Company reserves the right to correct clerical and stenographic errors at any time.

3. Shipping dates

Quotation of a shipping date by the Company is based on conditions at the date upon which the quotation is made. Any such shipping date is subject to change occasioned by agreements entered into prior to the Company's acceptance of the Purchaser's order, governmental priorities, strikes, riots, fires, the elements, explosion, war, embargoes, epidemics, quarantines, acts of God, labor troubles, delays of vendors or of transportation, inability to obtain raw materials, containers of transportation or manufacturing facilities or any other cause beyond the reasonable control of the Company. In no event shall the Company be liable for consequential damages for failure to meet any shipping date resulting from any of the above causes or any other cause.

In the event of any delay in the Purchaser's accepting shipment of products or parts in accordance with scheduled shipping dates, which delay has been requested by the Purchaser, or any such delay which has been caused by lack of shipping instructions, the Company shall store all products and parts involved at the Purchaser's risk and expense and shall invoice the Purchaser for the full contract price of such products and parts on the date scheduled for shipment or on the date on which the same is ready for delivery, whichever occurs later.

4. Warranty

The Company warrants to the Purchaser's that products manufactured by the Company, will by free, under normal use and maintenance, from defects in material and workmanship for a period of one (1) year after the shipment date from the Company's factory to the Purchaser. The Company makes no warranty concerning products manufactured by other parties. Items repaired by the Company will have a warranty period of 60 days from date of shipment.

As the Purchaser's sole and exclusive remedy under said warranty in regard to such products and parts, including but not limited to remedy for consequential damages, the Company will at its option, repair or replace without charge any product manufactured or part repaired by it, which is found to the Company's satisfaction to be so defective; provided, however, that (a) the product or part involved is returned to Company at the location designated by the Company, transportation charges prepaid by the Purchaser; or (b) at the Company's option the product or part will be repaired or replaced in the Purchaser's plant; and also provided that (c) the Company is notified of the defect within one (1) year after the shipment date from the Company's factory of the manufactured product or part so involved or 60 days for repairs.

The Company warrants to the Purchaser that any system engineered by it and started up under the supervision of an authorized Company representative will, if properly installed, operated and maintained, perform in compliance with such system's written specifications for a period of one (1) year from the date of shipment of such system.

As the Purchaser's sole and exclusive remedy under said warrant in regard to such systems, including but not limited to remedy for consequential damages, the Company will, at its option, cause, without charges any such system to so perform, which system is found to the Company's satisfaction to have failed to so perform, or refund to the Purchaser the price paid by the Purchaser to the Company in regard thereto; provided, however, that (a) the Company and its representatives are permitted to inspect and work upon the system involved during reasonable hours, and (b) the Company is notified of the failure within one (1) year after date of shipment of the system so involved.

Standard Terms & Conditions of Sale (continued)

The warranties hereunder of the Company specifically exclude and do not apply to the following:

- a. Products and parts damaged or abused in shipment without fault of the Company.
- b. Defects and failures due to operation, either intentional or otherwise, (1) above or beyond rated capacities, (2) in connection with equipment not recommended by the Company, or (3) in an otherwise improper manner.
- c. Defects and failures due to misapplication, improper installation or abnormal conditions of temperature, humidity, abrasives, dirt or corrosive matter.
- d. Products, parts and systems which have been in any way tampered with or altered by any party other than an authorized Company representative.
- e. Products, parts and systems designed by the Purchaser.
- f. Any party other than the Purchaser.

The Company makes no other warranties or representation, expressed or implied, of merchantability and of fitness for a particular purpose, in regard to products manufactured, parts repaired and systems engineered by it.

5. Terms of payment

Standard terms of payment are net thirty (30) days from date for the Company invoice with approved credit. For invoice purposed, delivery shall be deemed to be complete at the time the products, parts and systems are shipped from the Company and shall not be conditioned upon the start up thereof. Amounts past due are subject to a service charge of 1.5% per month or fraction thereof.

6. Order cancellation

Any cancellation by the Purchaser of any order or contract between the Company and the Purchaser must be made in writing and receive written approval of an authorized Company representative at its office in Heath Springs, SC. In the event of any cancellation of an order by either party, the Purchaser shall pay to the Company the reasonable costs, expenses, damages and loss of profit of the Company incurred there by, including but not limited to engineering expenses and expenses caused by commitments to the suppliers of the Company's subcontractors, as determined by the Company.

7. Changes

The Purchaser may, from time to time, but only with the written consent of an authorized Company representative, make a change in specifications to products, parts or systems covered by a purchase order accepted by the Company. In the event of any such changes, the Company shall be entitled to revise its price and delivery schedule under such order.

8. Returned material

If the Purchaser desires to return any product or part, written authorization thereof must first be obtained from the Company which will advise the Purchaser of the credit to be allowed and restocking charges to be paid in regard to such return. No product or part shall be returned to the Company without a "RETURN TAG" attached thereon which the Company has issued.

9. Packing

Published prices and quotations include the Company's standard packing for domestic shipment. Additional expenses for special packing or overseas shipments shall be paid by the Purchaser. If the Purchaser does not specify packing or accepts parts unpacked, no allowance will be made to the Purchaser in lieu of packing.

10. Standard transportation

Unless expressly provided in writing to the contrary, products, parts and systems are sold f.o.b. first point of shipment. Partial shipments shall be permitted, and the Company may invoice each shipment separately. Claims for non-delivery of products, parts and systems, and for damages thereto must be filed with the carrier by the Purchaser. The Company's responsibility therefor shall cease when the carrier signs for and accepts the shipment.

System Interface Components

AC & DC Drives

AC & DC Motors

Drive Systems

Transformers & Line Reactors

Custom Engineered Products

Carotron, Inc.

**3204 Rocky River Road
Heath Springs, SC 29058**

Phone : 888-286-8614

803-286-8614

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803-286-6063

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