530 Series

The 530 Series is Dart's top of the line, feature packed drive. Rated up to 3HP, this drive offers all the features typically needed in an SCR drive application. The 530 Series control combines advanced engineering design, premium component selection and rigorous quality control to deliver an excellent off-the-shelf SCR drive. Dependable, time-proven circuitry offers performance characteristics previously available only in more costly drives.

While providing a wide range of standard features, many options quickly and easily extend the 530 Series' capabilities to meet specific application requirements. An integral part of a distinguished line of quality products, the 530 Series is representative of Dart's continuing effort to provide reliable, versatile drives to the OEM, distributor, and industrial markets.

c US RoHS



530BRE



530BRC

MADE IN THE USA

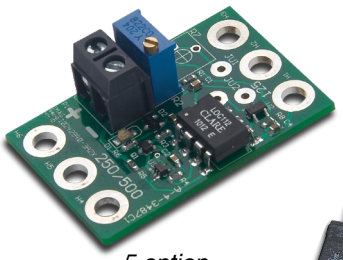
317.873.5211 I www.dartcontrols.com I sales@dartcontrol.com

530 Series Features + Specifications

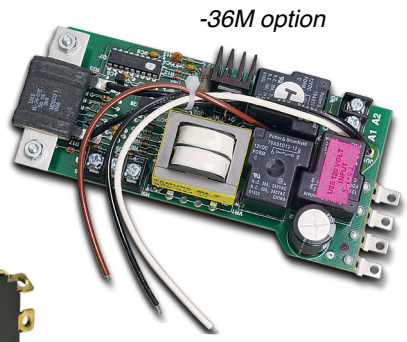
- Dual Voltage 120/240 VAC, 50/60Hz
- Full HP rated - no auxiliary heat sink required
- ± 10% rated line voltage
- Adjustable horsepower settings
- Barrier terminal strip
- Full wave bridge supply; 1% speed regulation
- Adjustable Minimum speed (0–30% of base)
- Adjustable Maximum speed (60–120% of base)
- Adjustable IR Compensation
- Adjustable Current Limit
- Adjustable Linear Acceleration and Deceleration
- On-board power interrupt relay (RC and RE versions)
- Solid state over-current output
- -10° to +45°C ambient temperature
- Line voltage compensation
- 5K ohm speed potentiometer kit included
- 50:1 speed range
- Overload capacity: 200% for one minute
- Transient voltage protection
- Voltage follower mode - isolated signal (0–12 VDC)
- Inhibit circuit–permits low power start & stop

Model	Width	Length	Depth	Weight
530 enclosed	6.70 in [17.02 cm]	10.0 in [25.40 cm]	4.75 in [12.07 cm]	56.0 oz [1.42 kg]
530 chassis	6.70 in [17.02 cm]	9.00 in [22.86 cm]	2.00 in [5.08 cm]	40.0 oz [1.13 kg]

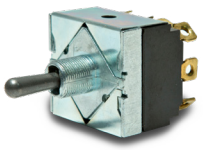
Options:



-5 option



-36M option



-29B

Base Model						Options								
Model	Supply Voltage	Motor Voltage	Current	HP	Body	-4	-5	-7	-15A	-29B	-36M	-36MA	-38M	-38MA
530BC	120 VAC	90 VDC	10 ADC	1/8-1	C	N/A	✓	✓	F	✓	F	F	F	F
	240 VAC	180 VDC		1/4-2										
530BRC	120 VAC	90 VDC	10 ADC	1/8-1	C	N/A	✓	✓	F	✓	F	F	F	F
	240 VAC	180 VDC		1/4-2										
533BC	120 VAC	90 VDC	15 ADC	1.5	C	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	240 VAC	180 VDC		3.0										
530BRE	120 VAC	90 VDC	10 ADC	1/8-1	E	F	N/A	F	F	✓	F	F	F	F
	240 VAC	180 VDC		1/4-2										

C – open chassis
E – NEMA 4 enclosed

√ - Option is available
F – Option is available as Factory Installed only

N/A – Option Not available

Option Description:

-4: Run/Jog feature- enclosed models only

-5: Isolated 4-20mA signal follower input - loop power NOT provided

-7: Same as -5 option, with provision to add manual speed pot for Auto/Manual operation

-15A: Extended linear Acceleration & Deceleration to 30 seconds

-29B: 4PDT center block (no pass) switch motor reversing. Cuts off supply power while changing motor direction

-36M: Anti-plug/zero speed detect relay reverse with dynamic brake. Renders main drive to single voltage (120VAC/90VDC)

-36MA: Same as -36M, with heavy duty dynamic brake resistor. For high cycle / high inertia load \ applications

-38M: Same as -36M except renders main drive to single voltage (240VAC/180VDC)

-38MA: Same as -38M, with heavy duty dynamic brake resistor. For high cycle / high inertia load applications