

Chassis Mount DC Controls

1/100 thru 1.5 Hp
1/50 thru 5 Hp

115 VAC Single Phase 50/60 Hz.
230 VAC Single Phase 50/60 Hz.



BC141 / BC142

Applications: General purpose industrial use with permanent magnet or shunt wound DC motors.

Features: Chassis-mount SCR controls have a free-wheeling diode and feature adjustable accel, decel, current limit, IR comp, min and max speed pots to match applications. The anti-demag feature protects PM motors and helps protect the SCR power bride against direct shorts. The controls have US and Canadian UL component recognition.

Hp Range	Catalog Number	Description Input Voltage / Max. Hp	List Price	Mult. Sym.	Ap'x. Shpg. Wgt.	Input Voltage
1/100-1 1/2 (a)	BC141	Standard Model, single voltage	196	E9	1	115
1/100-1 1/2	BC141-SIH	BC141 with BC152 Signal Isolator and BC143 Heatsink factory installed	463	E9	2	115
1/100-3 (a)	BC142	Standard Model, single voltage	196	E9	2	230
1/100 - 3	BC142-SIH	BC142 with BC152 Signal Isolator and BC143 Heatsink factory installed	484	E9	2	230
1/100-1 1/2 (a) 1/50-3	BC142-5	Dual voltage, without fuse holders	218	E9	1	115/230
1/100 - 1 1/2 (a) 1/50 - 3	BC142-6	Standard Model, dual voltage	217	E9	1	115/230
1/100 - 1 1/2 1/50 - 3	BC142-6SIH	BC142-6 with BC152 signal isolator board and BC143 heatsink factory installed	484	E9	1	115/230
5	BC155	120V - 1 Hp, 230V - 2 Hp	640	E9	5	230

NOTE: Above controls include 5k speed potentiometer.

(a) 1-1.5 Hp at 115 Volts and 2-3 Hp at 230 Volts, requires BC143 Heatsink kit.

BC155 Includes integral heatsink. Please refer to page 330 for features.

Plug-in Horsepower Resistor and Fuse Kit



A Plug-in Horsepower Resistor® and armature fuse **must** be ordered and installed in BC138, BC139, BC140, BC140-FBR, BC141 and BC142.

These should be selected based on the motor's **rated current**. The price of the Hp resistor and fuse is included in the BC138, BC139, BC140, BC140-FBR, BC141 and BC142 list price.

See selection below for catalog number.

Spare resistor kits are available for \$9.00 list, **E9** multiplier.

Motor Hp Armature Voltage		Plug-in Hp Resistor Resistance Value (Ohms)	Catalog Number	Ap'x DC Current (Amps)	DC Fuse Rating For Armature
90-130V	180V				
1/100	1/50	1.0	BR1000	0.20	0.5
1/50	1/25	0.51	BR0510	0.30	0.5
1/30	1/15	0.35	BR0350	0.33	0.5
1/20	1/10	0.25	BR0250	0.5	0.75
1/15	1/8	0.25	BR0251	0.8	1.0
1/12	1/6	0.18	BR0180	0.85	1.25
1/8	1/4	0.1	BR0100	1.3	2.0
1/6	1/3	0.1	BR0101	2.0	2.5
1/4	1/2	0.05	BR0050	2.5	4.0
1/3	3/4	0.035	BR0035	3.3	5.0
1/2	1	0.025	BR0025	5.0	8.0
3/4	1 1/2	0.015	BR0015SP	7.5	12.0
1 (a)	2 (a)	0.01	BR0010SP	10	15.0
1 1/2 (a)	3 (a)	0.006	BR0006	15	25.0 (b)

NOTE: (a) External Heatsink required. (b) Also used with AC Line Fuse. For AC line fuse rating see manual.

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