

NEMA 4X DC Control and Accessories

1/4 thru 2 Hp 115/230 VAC Single Phase 50/60 Hz.
3 Hp 230 VAC Single Phase 50/60 Hz.

Applications: Constant torque, new or replacement.

Features: BC154, BCWD140 and BC160 are non-regen controls with reversal by means of switching the armature leads (BCWD140 has a forward/brake/reverse switch mounted). BC254 is a line regenerative SCR control that can drive the motor to a timed stop. BC354 is a PWM control that provides low-ripple DC power to the motor allowing more Hp when used with a 130 or 260 VDC motor. All offer a choice of armature or tachometer feedback and a speed or torque mode. No Hp resistors are needed for these controls, current is jumper selectable. BC154, BC160, BC254 and BC354 are painted black and come with a start-stop switch. BCWD140 comes with white epoxy paint and also forward/brake/reverse and run-jog switches. See page 330 for features.



| Hp Range | Catalog Number | Description Input Voltage / Max. Hp | List Price | Mult. Sym. | Ap'x. Shpg. Wgt. | Input Voltage |
|---|------------------|--|------------|------------|------------------|---------------|
| NEMA 4X SCR (black) | | | | | | |
| 1/4-2 | BC154 | Standard model - 120V - 1 Hp, 230V - 2 Hp | 453 | E9 | 5 | 115/230 |
| | BC154-P | BC154 with POWER SWITCH instead of START/STOP SW. | 453 | E9 | 5 | 115/230 |
| | BC154-R | BC154 with BC156 - FBR Switch factory installed | 598 | E9 | 5 | 115/230 |
| | BC154-SI | BC154 with BC145 Signal Isolator Board and BC158 Auto/Man Switch kit factory installed | 729 | E9 | 5 | 115/230 |
| 3 | BC160 | 230V - 3 Hp | 521 | E9 | 3 | 230 |
| NEMA 4X Washdown Duty SCR (white) | | | | | | |
| 1/4-2 | BCWD140 | 120V - 1 Hp, 230V - 2 Hp | 606 | E9 | 6 | 115/230 |
| NEMA 4X Washdown Duty Line Regen SCR (black) | | | | | | |
| 1/8-2 | BC254 | 120V - 1 Hp, 230V - 2 Hp (a) | 653 | E9 | 5 | 115/230 |
| | BC254-FBR | BC254 with BC253 FWD-BRAKE-REV switch factory installed | 685 | E9 | 5 | 115/230 |
| NEMA 4X Washdown Duty PWM DC (black) (b) | | | | | | |
| 1/4-2 | BC354 | 120V - 1 Hp, 230V - 2 Hp | 702 | E9 | 5 | 115/230 |

NOTE: (a) See page 329 for BC254 accessories.

(b) Output current is 7.5 amps; Output voltage is 130VDC for 115VAC input - 260VDC for 230VAC input. Motors designed for these voltages will give the best performance.

DC SCR NEMA 4X DC Control Accessories

| Catalog Number | Description | List Price | Mult. Sym. | Ap'x. Shpg. Wgt. |
|----------------|--|------------|------------|------------------|
| BC153 | Electronic Forward-Dynamic Brake-Reverse Kit for BC154, BC354 | 216 | E9 | 1 |
| BC156 | Mechanical Forward-Dynamic Brake-Reverse Switch for BC154, BC354 | 140 | E9 | 1 |
| BC157 | Run/Jog switch for BC154 & BC160, BC354 | 26 | E9 | 1 |
| BC158 | Auto/Manual Installation Kit for BC145 signal isolator for BC154, BC160, BC354 | 58 | E9 | 1 |
| BC159 | AC Line Switch Kit for BC154, BCWD140, BC254, BC354 | 31 | E9 | 1 |
| BC145 | Signal Isolator Board | 204 | E9 | 1 |

NOTE: BC159 AC Line Switch Kit is factory installed on BC154, BCWD140, BC354. Listed here as replacement or spare parts.

Farm Duty Motors

Definite Purpose Motors

Unit Handling Motors

Brake Motors

200 & 575 Volt Motors

IEC Frame Motors

50 Hertz Motors

Inverter/Vector Motors & Controls

DC Motors and Controls

Soft Start & Dynamic Brakes