

# HAMPTON

Hampton Controls

1-800-437-2664

www.hamptoncontrols.com

## **DURAKOOL** Series BFC (Open) 60 Amps

The unusually long life of Durakool "B" size contactors in proportional temperature control systems has made them the most popular choice of designers of process heating controls.

BFC (normally open) and BBC (normally closed) contactors are general purpose, 60 Amp rated, featuring mercury-to-tungsten contacts. Tungsten's ability to resist arcing erosion greatly prolongs the life of the contactor. These relays can be used in plastic extrusion equipment to cycle heaters for precise temperature control.

### SPECIFICATIONS

|                                      |                                            |                |
|--------------------------------------|--------------------------------------------|----------------|
| <b>Maximum Time:</b>                 | <b>Operate</b>                             | <b>Release</b> |
| <b>Normally Open:</b>                | 70 ms                                      | 90 ms          |
| <b>Normally Closed:</b>              | 120 ms                                     | 90 ms          |
| <b>Contact Bounce, Release:</b>      | None                                       |                |
| <b>Recommended DC Load Polarity:</b> | Top Connector Negative                     |                |
| <b>Load Connectors:</b>              | Pressure Connector #1-8 AWG Cu.            |                |
| <b>Coil Terminals:</b>               | #6-32 Wire Binding Screw, Max. #12 AWG Cu. |                |
| <b>Breakdown Voltage:</b>            | 5000 VRMS/Min. Across Contacts             |                |



| TYPE/SERIES |         | BFC<br>(Normally Open) |                   |       |       |
|-------------|---------|------------------------|-------------------|-------|-------|
| DESCRIPTION | Volts   | Part Number            | Typical Coil Data |       |       |
|             |         |                        | DC Ohms           | Watts | Amps  |
| 1 Pole      | 24      | BFC-716                | 40                | 2.60  | 0.235 |
|             | 120     | BFC-717                | 902               | 3.47  | 0.055 |
|             | 208     | BFC-718                | 3100              | 3.50  | 0.029 |
|             | 240     | BFC-719                | 3700              | 3.40  | 0.026 |
|             | 277     | BFC-720                | 5410              | 3.46  | 0.022 |
|             | 480     | BFC-721                | 15000             | 3.54  | 0.012 |
|             | 12 (DC) | BFC-730                | 57                | 3.64  | 0.293 |
|             | 24 (DC) | BFC-722                | 230               | 3.48  | 0.146 |

| ELECTRICAL RATINGS       | GENERAL PURPOSE<br>0.7/0.8 UL Power Factor |    |    |    |    |    | DC           |    |    | Tungsten<br>Lamp/60 Hz | AC MOTOR LOAD |     |     |         |     |      |      |
|--------------------------|--------------------------------------------|----|----|----|----|----|--------------|----|----|------------------------|---------------|-----|-----|---------|-----|------|------|
|                          | Volts                                      |    |    |    |    |    | 1-48 120 240 |    |    | 120                    | 1 Phase       |     |     | 3 Phase |     |      |      |
|                          | 60 Hz Amps                                 |    |    |    |    |    | DC Amps      |    |    | Amps KW                | Hp            | Hp  | Hp  | Hp      | Hp  | Hp   |      |
| BFC 60 (Normally Open)   | 60                                         | 60 | 60 | 60 | 60 | 60 | 60           | 30 | 20 | 60                     | 7.2           | 3.0 | 5.0 | 7.5     | 5.0 | 10.0 | 15.0 |
| BBC 60 (Normally Closed) | 60                                         | 45 | 45 | 45 | 35 | 25 | 60           | 30 | 20 | 55                     | 6.6           | 3.0 | 5.0 | —       | 5.0 | 7.5  | —    |

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