

# IEC Power Devices

## IEC Contactors Accessories

### C-2000

## Section 5

#### Front-Mount Auxiliary Contact Blocks

Front-mount auxiliary contact blocks clip onto front face of contactor.  
Contact Rating: A600, Q600.

| For Use With  | Terminal Type | Contact Configuration | Product Number       | List Price<br>GO-10C2 |
|---------------|---------------|-----------------------|----------------------|-----------------------|
| CL Contactors | Standard      | 1NO                   | BCLF10               | \$11.00               |
| CL Contactors | Standard      | 1NC                   | BCLF01               | \$11.00               |
| CL Contactors | Standard      | 1NO                   | BCLF10G <sup>1</sup> | \$15.00               |
| CL Contactors | Standard      | 1NC                   | BCLF01G <sup>1</sup> | \$15.00               |
| CL Contactors | Ring          | 1NO                   | BCRF10               | \$13.00               |
| CL Contactors | Ring          | 1NC                   | BCRF01               | \$13.00               |

<sup>1</sup>Overlapping contacts.

#### Side-Mount Auxiliary Contact Blocks

Side-mount auxiliary contact blocks can be mounted on either left or right sides of contactor. Positive displacement contacts are designed to prevent simultaneous closing of NO and NC contacts to avoid overlapping between opposing functions. Contact Rating: A600, Q600.

| For Use With     | Terminal Type | Type        | Contact Configuration | Product Number        | List Price<br>GO-10C2 |
|------------------|---------------|-------------|-----------------------|-----------------------|-----------------------|
| CL/CK Contactors | Standard      | Base Block  | 1NO-1NC               | BCLL11                | \$19.00               |
| CL/CK Contactors | Standard      | Base Block  | 1NO-1NC               | BCLL11-K <sup>2</sup> | \$19.00               |
| CL/CK Contactors | Standard      | Base Block  | 2NO                   | BCLL20                | \$19.00               |
| CL/CK Contactors | Standard      | Adder Block | 1NO-1NC               | BRLL11                | \$19.00               |
| CL/CK Contactors | Standard      | Adder Block | 2NO                   | BRLL20                | \$19.00               |
| CL/CK Contactors | Standard      | Adder Block | 2NC                   | BRLL02                | \$19.00               |

<sup>2</sup>For high shock/vibration environments.

#### Mechanical Interlock

Mechanical interlocks, used for horizontal interlocking of two contactors mounted side-by-side, prevent the closing of one contactor (as long as the other remains closed). BEL02 includes two built-in NC contacts. Contact Rating: A600, Q600.

| For Use With                              | Product Number | List Price<br>GO-10C2 |
|---|----------------|-----------------------|
| 5-75 Hp contactors (All CL Contactors)    | BELA02         | \$35.00               |
| 100-500 Hp contactors (All CK Contactors) | BEKH           | \$65.00               |

#### Pneumatic Timer

Pneumatic timers are adjustable time-delayed auxiliary contacts. They come equipped with two time-delayed contacts: 1NO and 1NC, electrically separated. Setting is scaled over a 350° rotation by means of a knurled knob with timing guide marks. To mount a pneumatic timer, simply clip it on front face of contactor. Contact Rating: A600, Q600.

| For Use With  | Terminal Type | Type           | Time range | Contact Configuration | Product Number | List Price<br>GO-10C2 |
|---------------|---------------|----------------|------------|-----------------------|----------------|-----------------------|
| CL Contactors | Standard      | Time Delay On  | 1-30 sec   | 1NO-1NC               | BTLF30C        | \$120.00              |
| CL Contactors | Standard      | Time Delay On  | 1-60 sec   | 1NO-1NC               | BTLF60C        | \$120.00              |
| CL Contactors | Standard      | Time Delay Off | 1-30 sec   | 1NO-1NC               | BTLF30D        | \$120.00              |
| CL Contactors | Standard      | Time Delay Off | 1-60 sec   | 1NO-1NC               | BTLF60D        | \$120.00              |
| CL Contactors | Ring          | Time Delay On  | 1-30 sec   | 1NO-1NC               | BTRF30C        | \$124.00              |
| CL Contactors | Ring          | Time Delay On  | 1-60 sec   | 1NO-1NC               | BTRF60C        | \$124.00              |
| CL Contactors | Ring          | Time Delay Off | 1-30 sec   | 1NO-1NC               | BTRF30D        | \$124.00              |
| CL Contactors | Ring          | Time Delay Off | 1-60 sec   | 1NO-1NC               | BTRF60D        | \$124.00              |

#### Electronic Timers

Time-on delay and time-off delay modules for sequencing control of contactors. They deliver high repeatability, ±3% in ambient temperatures from 32° to 104°F. A red LED provides indication during time-delay operation.

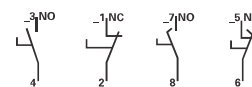
| For Use With                     | Type      | Time-Delay Range | Product Number | List Price<br>GO-10C2 |
|----------------------------------|-----------|------------------|----------------|-----------------------|
| CL00-CL10 with ac coils 24-250 V | On delay  | 0.1-2 s          | BETL02C        | \$75.00               |
| CL00-CL10 with dc coils 24-250 V | On delay  | 1.5-45 s         | BETL45C        | \$75.00               |
| CL00-CL10 with ac coils 24-250 V | Off delay | 0.1-2 s          | BETL02D        | \$85.00               |
| CL00-CL10 with dc coils 24-250 V | Off delay | 1.5-45 s         | BETL45D        | \$85.00               |



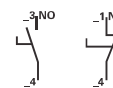
Product Number Selection Instructions: See page 5-37



Front-Mounted Block



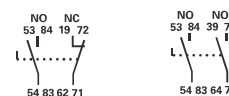
BCLF10/BCLF01/BCLF10G/BCLF01G



BCRF10/BCRF01



Side-Mounted Block



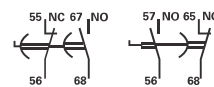
BRLL11/BRLL20



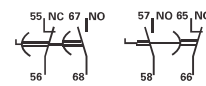
Mechanical Interlock



Pneumatic Timer



BTRF30C/BTRF60C/BTRF30D/BTRF60D



BTLF30C/BTLF60C BTLF30D/BTLF60D



Electronic Timer

# IEC Power Devices

## IEC Control Relays Accessories

### C-2000

## Section 5

#### Electronic Timer and Interface Modules

These modules add flexibility to C-2000 relays, providing time-delay functions, and interface for low voltage PLC applications or contactor-mounted manual-auto functions. Easily installed, these modules plug right into the contactor coil terminals. All modules include a status indicating LED and accept plug-in voltage surge suppressors.

#### Timers

Time-on delay and time-off delay modules for sequencing control of contactors. They deliver high repeatability,  $\pm 3\%$  in ambient temperatures from 32° to 104°F. A red LED provides indication during time-delay operation.

| For Use With           | Type      | Time-Delay Range | Product Number | List Price<br>GO-10C2 |
|------------------------|-----------|------------------|----------------|-----------------------|
| All RL4 Control Relays | On delay  | 0.1-2 s          | BETL02C        | \$75.00               |
| All RL4 Control Relays | On delay  | 1.5-45 s         | BETL45C        | \$75.00               |
| All RL4 Control Relays | Off delay | 0.1-2 s          | BETL02D        | \$85.00               |
| All RL4 Control Relays | Off delay | 1.5-45 s         | BETL45D        | \$85.00               |



BETL\_\_\_Timer

#### Interface Modules

Interface modules allow relay operation from 24 Volt sources (such as a PLC output). Current consumption is 15 mA @ 24 Vdc. A red LED provides indication when voltage is applied to E1-E2.

| For Use With           | Input Voltage | Type  | Product Number | List Price<br>GO-10C2 |
|------------------------|---------------|-------|----------------|-----------------------|
| All RL4 Control Relays | 24 VDC        | Relay | IMRD           | \$50.00               |



IM\_\_\_Interface Module

#### Voltage Surge Suppressors

Voltage surge suppressors plug into timer, interface, or auto-stop-manual modules.

| Coil Voltage     | Surge Suppressor Type      | Product Number | List Price<br>GO-10C2 |
|------------------|----------------------------|----------------|-----------------------|
| 24-48 VAC        | Resistive/Capacitive (R/C) | IMRC2G         | \$24.00               |
| 50-127 VAC       | Resistive/Capacitive (R/C) | IMRC2K         | \$24.00               |
| 130-240 VAC      | Resistive/Capacitive (R/C) | IMRC2R         | \$24.00               |
| 24-48 VAC        | Resistive/Capacitive (R/C) | IMRC3G         | \$24.00               |
| 130-240 VAC      | Resistive/Capacitive (R/C) | IMRC3R         | \$24.00               |
| 24-48 VAC or DC  | Varistor                   | IMV3G          | \$24.00               |
| 50-127 VAC or DC | Varistor                   | IMV3K          | \$24.00               |



IM\_\_\_Voltage Surge Suppressor

