

# ArmorStart® Distributed Motor Controller

## Catalog Number Explanation

### Cat. No. Explanation

Examples given in this section are for reference purposes. This basic explanation should not be used for product selection; not all combinations will produce a valid catalog number.

280  
 D - 
 F  
 12Z - 
 10  
 C - 
 CR - 
 Option 1 - 
 Option 2

*a*      *b*      *c*      *d*      *e*      *f*      *g*      *h*      *i*

*a*

| Bulletin Number |                      |
|-----------------|----------------------|
| 280             | Full Voltage Starter |
| 281             | Reversing Starter    |

*e*

| Short Circuit Protection (Motor Circuit Protector) |                   |
|----------------------------------------------------|-------------------|
| 10                                                 | 10 A Rated Device |
| 25                                                 | 25 A Rated Device |

*h*

| Option 1 |                                                    |
|----------|----------------------------------------------------|
| 3        | Hand/Off/Auto Selector Keypad                      |
| 3FR      | Hand/Off/Auto Selector Keypad with Forward/Reverse |

*b*

| Communications |            |
|----------------|------------|
| D              | DeviceNet™ |
| A              | ArmorPoint |

*f*

| Overload Selection Current Range |              |
|----------------------------------|--------------|
| A                                | 0.24...1.2 A |
| B                                | 0.5...2.5 A  |
| C                                | 1.1...5.5 A  |
| D                                | 3.2...16 A   |

*i*

| Option 2 |                |
|----------|----------------|
| SM       | Safety Monitor |

*c*

| Enclosure Type |               |
|----------------|---------------|
| F              | Type 4 (IP67) |
| S              | Type 4X       |

*d*

| Contactor Size/Control Voltage |         |         |
|--------------------------------|---------|---------|
| 24V DC                         | 120V AC | 240V AC |
| 12Z                            | 12D     | 12B     |
| 23Z                            | 23D     | 23B     |

*g*

| Control and 3-Phase Power Connections/Motor Cable Connection (CR: Conduit/Round Media) or (RR: Round/Round Media) |       |                               |                               |                                  |
|-------------------------------------------------------------------------------------------------------------------|-------|-------------------------------|-------------------------------|----------------------------------|
| Code                                                                                                              |       | Description                   |                               |                                  |
|                                                                                                                   |       | Control Power                 | 3-Phase Power                 | Motor Cable                      |
| CR                                                                                                                | blank | Conduit Entrance              | Conduit Entrance              | 3 m, unshielded cordset male 90° |
| CR                                                                                                                | W *   | Conduit Entrance              | Conduit Entrance              | No cable                         |
| RR                                                                                                                | blank | Round Media (Male Receptacle) | Round Media (Male Receptacle) | 3 m, unshielded cordset male 90° |
| RR                                                                                                                | W *   | Round Media (Male Receptacle) | Round Media (Male Receptacle) | No cable                         |

\* See Accessories on page 6 for extended motor cable lengths.

### Product Selection

#### Full-voltage starters — IP67/NEMA Type 4 with conduit entrance and DeviceNet communications, Up to 575V AC

| Current Rating [A] | kW            |               | Hp            |               |               |               | 24V DC Control Voltage | 120V AC Control Voltage | 240V AC Control Voltage |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------------|-------------------------|-------------------------|
|                    | 230V AC 50 Hz | 400V AC 50 Hz | 200V AC 60 Hz | 230V AC 60 Hz | 460V AC 60 Hz | 575V AC 60 Hz | Cat. No.               | Cat. No.                | Cat. No.                |
|                    | 0.24...1.2    | 0.18          | 0.37          | —             | —             | 0.5           | 0.5                    | 280D-F12Z-10A-CR        | 280D-F12D-10A-CR        |
| 0.5...2.5          | 0.37          | 0.75          | 0.5           | 0.5           | 1             | 1.5           | 280D-F12Z-10B-CR       | 280D-F12D-10B-CR        | 280D-F12B-10B-CR        |
| 1.1...5.5          | 1.1           | 2.2           | 1             | 1             | 3             | 3             | 280D-F12Z-10C-CR       | 280D-F12D-10C-CR        | 280D-F12B-10C-CR        |
| 3.2...16           | 4             | 7.5           | 3             | 5             | 10            | 10            | 280D-F23Z-25D-CR       | 280D-F23D-25D-CR        | 280D-F23B-25D-CR        |

#### Full-voltage Starters — IP67/NEMA Type 4 with conduit entrance and ArmorPoint communications, Up to 575V AC

| Current Rating [A] | kW            |               | Hp            |               |               |               | 24V DC Control Voltage | 120V AC Control Voltage | 240V AC Control Voltage |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------------|-------------------------|-------------------------|
|                    | 230V AC 50 Hz | 400V AC 50 Hz | 200V AC 60 Hz | 230V AC 60 Hz | 460V AC 60 Hz | 575V AC 60 Hz | Cat. No.               | Cat. No.                | Cat. No.                |
|                    | 0.24...1.2    | 0.18          | 0.37          | —             | —             | 0.5           | 0.5                    | 280A-F12Z-10A-CR        | 280A-F12D-10A-CR        |
| 0.5...2.5          | 0.37          | 0.75          | 0.5           | 0.5           | 1             | 1.5           | 280A-F12Z-10B-CR       | 280A-F12D-10B-CR        | 280A-F12B-10B-CR        |
| 1.1...5.5          | 1.1           | 2.2           | 1             | 1             | 3             | 3             | 280A-F12Z-10C-CR       | 280A-F12D-10C-CR        | 280A-F12B-10C-CR        |
| 3.2...16           | 4             | 7.5           | 3             | 5             | 10            | 10            | 280A-F23Z-25D-CR       | 280A-F23D-25D-CR        | 280A-F23B-25D-CR        |