Bulletin 156-C

AB Allen-Bradley

Solid-State Contactors Available from 20...85 A

Advantages

- · Compact solid-state design
 - High resistance to shock/vibration, contamination, and mechanical wear
 - Built-in varistor protection for a greater degree of over-voltage protection
 - Zero cross switching to help reduce EMC emissions
 - LED status indication provides visual verification of operating status
- · Flexible configuration options
 - 1, 2, or 3-phase capable
 - Wide range of AC, DC, and analog control input options
- Optimized to help reduce electrical costs and needs
 - Low electrical and acoustical noise
 - Low input power
 - Operational current up to 85 A (AC-1), 65 A (AC-3)
 - Line voltage ratings up to 600V
 - UL/cUL as a motor controller
 - IEC AC51/AC53 resistive/inductive rated

Solid-state contactors are ideal for high duty cycle applications.



156-C1P20NAD single-phase

156-C3P30NCD three-phase

Overview

If your application demands low maintenance, fast switching, or operation in harsh environmental conditions, consider a solid-state control solution. The Allen-Bradley® Bulletin 156 line of solid-state contactors from Rockwell Automation complements our existing line of Bulletin 700 solid-state relays to provide you with a complete line of solid-state solutions. Designed without moving parts or contacts that can wear out, solid-state solutions can help reduce or eliminate the cost associated with maintenance, part replacement, and downtime.

Flexible in configuration and design, these devices can be panel or DIN Rail mounted complete with the integrated heatsink and do not require additional components or assembly. Microprocessor and PLC compatible, the solid-state contactors can be used in applications that range from heaters to small motors and valves.

Solid-state contactors are also an ideal replacement for mercury wetted relays and contactors. Mercury type relays introduce environmental complications that may lead to additional problems and expenses. A solid-state contactor can help eliminate these issues, while delivering the same type of performance at a lower total cost.







Product Selection

Solid-State Power Contactors

Single-Phase

| Current Rating @ 40 C | Control Voltage | | | Rated Po | wer @ 40C | Operational voltage | Operational Voltage | | |
|-----------------------|-----------------------------|-----------------------------|-------|----------|-----------|---------------------|---------------------|--------------|--------------|
| | | | 115 | 230 | 400 | 480 | 600 | < 240 V AC | < 600 V AC |
| 20 | 20 - 275 V AC 24 - 190 V DC | Нр | 1/3 | 1 | 2 | 3 | 3 | 156-C1P20NAB | 156-C1P20NCB |
| | 5 to 32 volts DC | kW | 0.18 | 0.37 | 0.75 | 1.1 | 1.5 | 156-C1P20NAD | 156-C1P20NCD |
| 25 | 20 - 275 V AC 24 - 190 V DC | Нр | 1/3 | 1 | 2 | 3 | 3 | 156-C1P25NAB | 156-C1P25NCB |
| 25 | 5 to 32 volts DC | kW | 0.18 | 0.37 | 0.75 | 1.1 | 1.5 | 156-C1P25NAD | 156-C1P25NCD |
| 43 | 20 - 275 V AC 24 - 190 V DC | 75 V AC 24 - 190 V DC Hp 1- | 1-1/2 | 3 | 5 | 7-1/2 | 10 | - | 156-C1P43NCB |
| 43 | 5 to 32 volts DC | kW | 0.6 | 1.5 | 2.2 | 3.7 | 4.0 | - | 156-C1P43NCD |
| 65 | 20 - 275 V AC 24 - 190 V DC | Нр | 2 | 5 | 7-1/2 | 10 | 15 | - | 156-C1P65NCB |
| | 5 to 32 volts DC | kW | 0.75 | 1.5 | 4.0 | 4.0 | 5.5 | - | 156-C1P65NCD |
| 85 | 20 - 275 V AC 24 - 190 V DC | Нр | 2 | 5 | 7-1/2 | 10 | 15 | - | 156-C1P85NCB |
| | 5 to 32 volts DC | kW | 0.75 | 1.5 | 4.0 | 4.0 | 5.5 | - | 156-C1P85NCD |

Dual-Phase

| Current Rating @ 40 C | Control Voltage | | | Rated Po | wer @ 40C | Operational voltage | Operational Voltage | | |
|-----------------------|-----------------------------|----|-------|----------|-----------|---------------------|---------------------|--------------|---------------|
| | | | 115 | 230 | 400 | 480 | 600 | . < 240 V AC | < 600 V AC |
| 25 | 20 - 275 V AC 24 - 190 V DC | Нр | 1-1/2 | 3 | 5 | 7-1/2 | 10 | - | 156-C2P25NCB |
| | 5 to 32 volts DC | kW | 1.1 | 3.0 | 5.5 | 5.5 | 9.0 | - | 156-C2P25NCD |
| 40 | 20 - 275 V AC 24 - 190 V DC | Нр | 3 | 5 | 10 | 10 | 15 | - | 156-C2P40NCB |
| | 5 to 32 volts DC | kW | 1.5 | 4.0 | 7.5 | 9.0 | 11.0 | - | 156-C2P40NCD |
| 75 | 20 - 275 V AC 24 - 190 V DC | Нр | 5 | 10 | 15 | 20 | 25 | - | 156-C2P75NCBA |
| | 5 to 32 volts DC | kW | 3.0 | 7.5 | 11.0 | 15.0 | 22.0 | - | 156-C2P75NCDA |

Three-Phase

| Current Rating @ 40 C | Control Voltage | | | Rated Po | wer @ 40C | Operational voltage | Operational Voltage | | |
|-----------------------|-----------------------------|----|-----|----------|-----------|---------------------|---------------------|--------------|---------------|
| | | | 115 | 230 | 400 | 480 | 600 | < 240 V AC | < 600 V AC |
| 20 | 20 - 275 V AC 24 - 190 V DC | Нр | 1 | 3 | 5 | 7-1/2 | 10 | 156-C3P20NAB | 156-C3P20NCB |
| | 5 to 32 volts DC | kW | 0.8 | 2.2 | 4.0 | 5.5 | 7.5 | 156-C3P20NAD | 156-C3P20NCD |
| 25 | 20 - 275 V AC 24 - 190 V DC | Нр | 2 | 3 | 7-1/2 | 10 | 10 | - | 156-C3P25NCB |
| | 5 to 32 volts DC | kW | 1.1 | 2.2 | 4.0 | 5.5 | 7.5 | - | 156-C3P25NCD |
| 30 | 20 - 275 V AC 24 - 190 V DC | Нр | 2 | 5 | 10 | 10 | 15 | - | 156-C3P30NCB |
| | 5 to 32 volts DC | kW | 1.5 | 3.0 | 5.5 | 7.5 | 11.0 | - | 156-C3P30NCD |
| 40 | 20 - 275 V AC 24 - 190 V DC | Нр | 2 | 5 | 10 | 10 | 15 | - | 156-C3P40NCBA |
| | 5 to 32 volts DC | kW | 1.4 | 4.0 | 7.5 | 9.0 | 11.0 | - | 156-C3P40NCDD |
| 65 | 20 - 275 V AC 24 - 190 V DC | Нр | 3 | 10 | 15 | 20 | 25 | - | 156-C3P65NCBA |
| | 5 to 32 volts DC | kW | 3.0 | 5.5 | 11.0 | 15.0 | 20.0 | - | 156-C3P65NCDA |

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