

Bulletin 156-C



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.

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Product Selection

Solid-State Power Contactors

Single-Phase

Current Rating @ 40 C	Control Voltage	Rated Power @ 40C						Operational voltage < 240 V AC	Operational Voltage < 600 V AC
			115	230	400	480	600		
20	20 - 275 V AC 24 - 190 V DC	Hp	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	Hp	1/3	1	2	3	3	156-C1P25NAB	156-C1P25NCB
	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	Hp	1-1/2	3	5	7-1/2	10	-	156-C1P43NCB
	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	Hp	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	Hp	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 Power @ 40C						Operational voltage < 240 V AC	Operational Voltage < 600 V AC
			115	230	400	480	600		
25	20 - 275 V AC 24 - 190 V DC	Hp	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	Hp	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	Hp	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 Power @ 40C						Operational voltage < 240 V AC	Operational Voltage < 600 V AC
			115	230	400	480	600		
20	20 - 275 V AC 24 - 190 V DC	Hp	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	Hp	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	Hp	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	Hp	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	Hp	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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