

### Open Type and Non-Combination Enclosed (IP65, NEMA 4/12) Controllers — For use with Line-Connected Motors

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type — Line-Connected Motors	IP65 (Type 4/12) Enclosed Non-Combination Controllers*
					Cat. No.	Cat. No.
200/208	1...3	—	0.5	100...240V AC, 50/60 Hz	<b>150-C3NBD</b>	150-C3FHD
		—		24V AC/DC	<b>150-C3NBR</b>	—
	3...9	—	0.75...2	100...240V AC, 50/60 Hz	<b>150-C9NBD</b>	150-C9FHD
		—		24V AC/DC	<b>150-C9NBR</b>	—
	5.3...16	—	1.5...3	100...240V AC, 50/60 Hz	<b>150-C16NBD</b>	150-C16FHD
		—		24V AC/DC	<b>150-C16NBR</b>	—
	6.3...19	—	1.5...3	100...240V AC, 50/60 Hz	<b>150-C19NBD</b>	150-C25FHD
		—		24V AC/DC	<b>150-C19NBR</b>	—
	9.2...25	—	3...7.5	100...240V AC, 50/60 Hz	<b>150-C25NBD</b>	150-C25FHD
		—		24V AC/DC	<b>150-C25NBR</b>	—
	10...30	—	3...7.5	100...240V AC, 50/60 Hz	<b>150-C30NBD</b>	150-C30FHD
		—		24V AC/DC	<b>150-C30NBR</b>	—
	12.3...37	—	5...10	100...240V AC, 50/60 Hz	<b>150-C37NBD</b>	150-C37FHD
		—		24V AC/DC	<b>150-C37NBR</b>	—
	14.3...43	—	5...10	100...240V AC, 50/60 Hz	<b>150-C43NBD</b>	150-C43FHD
		—		24V AC/DC	<b>150-C43NBR</b>	—
	20...60	—	7.5...15	100...240V AC, 50/60 Hz	<b>150-C60NBD</b>	150-C60FHD
		—		24V AC/DC	<b>150-C60NBR</b>	—
	28.3...85	—	10...25	100...240V AC, 50/60 Hz	<b>150-C85NBD</b>	150-C85FHD
		—		24V AC/DC	<b>150-C85NBR</b>	—
27...108	—	20...30	100...240V AC, 50/60 Hz	<b>150-C108NBD</b>	150-C108FHD	
	—		24V AC/DC $\Delta$	<b>150-C108NBR</b>	—	
34...135	—	25...40	100...240V AC, 50/60 Hz	<b>150-C135NBD</b>	150-C135FHD	
	—		24V AC/DC $\Delta$	<b>150-C135NBR</b>	—	
67...201	—	40...60	100...240V AC, 50/60 Hz	<b>150-C201NBD</b>	150-C201FHD	
	—		24V AC/DC $\Delta$	<b>150-C201NBR</b>	—	
84...251	—	50...75	100...240V AC, 50/60 Hz	<b>150-C251NBD</b>	150-C251FHD	
	—		24V AC/DC $\Delta$	<b>150-C251NBR</b>	—	
106...317	—	60...100	100...240V AC, 50/60 Hz	<b>150-C317NBD</b>	150-C317FHD	
	—		24V AC/DC $\Delta$	<b>150-C317NBR</b>	—	
120...361	—	75...125	100...240V AC, 50/60 Hz	<b>150-C361NBD</b>	150-C361FHD	
	—		24V AC/DC $\Delta$	<b>150-C361NBR</b>	—	
160...480	—	100...150	100...240V AC, 50/60 Hz	<b>150-C480NBD</b>	150-C480FHD	
	—		24V AC/DC $\Delta$	<b>150-C480NBR</b>	—	

‡ Motor FLA rating should fall within specified current range for unit to operate properly.

\* These controllers require a separate 100...240V, 50/60 Hz single-phase control source. To add a control circuit transformer to the enclosure, add the appropriate option code to the catalog string.

$\Delta$  Separate 120V or 240V single phase is required for fan operation.

**Open Type and Non-Combination Enclosed (IP65, NEMA 4/12) Controllers — For use with Line-Connected Motors, Continued**

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type — Line-Connected Motors	IP65 (Type 4/12) Enclosed Non-Combination Controllers♣
					Cat. No.	Cat. No.
230	1...3	0.55	0.5	100...240V AC, 50/60 Hz	<b>150-C3NBD</b>	150-C3FAD
				24V AC/DC	<b>150-C3NBR</b>	—
	3...9	2.2	0.75...2	100...240V AC, 50/60 Hz	<b>150-C9NBD</b>	150-C9FAD
				24V AC/DC	<b>150-C9NBR</b>	—
	5.3...16	4	1.5...5	100...240V AC, 50/60 Hz	<b>150-C16NBD</b>	150-C16FAD
				24V AC/DC	<b>150-C16NBR</b>	—
	6.3...19	4	2...5	100...240V AC, 50/60 Hz	<b>150-C19NBD</b>	150-C25FAD
				24V AC/DC	<b>150-C19NBR</b>	—
	9.2...25	5.5	3...7.5	100...240V AC, 50/60 Hz	<b>150-C25NBD</b>	150-C25FAD
				24V AC/DC	<b>150-C25NBR</b>	—
	10...30	7.5	5...10	100...240V AC, 50/60 Hz	<b>150-C30NBD</b>	150-C30FAD
				24V AC/DC	<b>150-C30NBR</b>	—
	12.3...37	7.5	5...10	100...240V AC, 50/60 Hz	<b>150-C37NBD</b>	150-C37FAD
				24V AC/DC	<b>150-C37NBR</b>	—
	14.3...43	11	5...15	100...240V AC, 50/60 Hz	<b>150-C43NBD</b>	150-C43FAD
				24V AC/DC	<b>150-C43NBR</b>	—
	20...60	15	7.5...20	100...240V AC, 50/60 Hz	<b>150-C60NBD</b>	150-C60FAD
				24V AC/DC	<b>150-C60NBR</b>	—
	28.3...85	22	15...30	100...240V AC, 50/60 Hz	<b>150-C85NBD</b>	150-C85FAD
				24V AC/DC	<b>150-C85NBR</b>	—
27...108	30	20...40	100...240V AC, 50/60 Hz	<b>150-C108NBD</b>	150-C108FAD	
			24V AC/DCΔ	<b>150-C108NBR</b>	—	
34...135	37	25...50	100...240V AC, 50/60 Hz	<b>150-C135NBD</b>	150-C135FAD	
			24V AC/DCΔ	<b>150-C135NBR</b>	—	
67...201	55	40...75	100...240V AC, 50/60 Hz	<b>150-C201NBD</b>	150-C201FAD	
			24V AC/DCΔ	<b>150-C201NBR</b>	—	
84...251	75	50...100	100...240V AC, 50/60 Hz	<b>150-C251NBD</b>	150-C251FAD	
			24V AC/DCΔ	<b>150-C251NBR</b>	—	
106...317	90	60...125	100...240V AC, 50/60 Hz	<b>150-C317NBD</b>	150-C317FAD	
			24V AC/DCΔ	<b>150-C317NBR</b>	—	
120...361	110	75...150	100...240V AC, 50/60 Hz	<b>150-C361NBD</b>	150-C361FAD	
			24V AC/DCΔ	<b>150-C361NBR</b>	—	
160...480	132	100...200	100...240V AC, 50/60 Hz	<b>150-C480NBD</b>	150-C480FAD	
			24V AC/DCΔ	<b>150-C480NBR</b>	—	

‡ Motor FLA rating should fall within specified current range for unit to operate properly.

♣ These controllers require a separate 100...240V, 50/60 Hz single-phase control source. To add a control circuit transformer to the enclosure, add the appropriate option code to the catalog string.

Δ Separate 120V or 240V single phase is required for fan operation.

## SMC™-3 Smart Motor Controllers

## Product Selection

## Open Type and Non-Combination Enclosed (IP65, NEMA 4/12) Controllers — For use with Line-Connected Motors, Continued

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type — Line-Connected Motors	IP65 (Type 4/12) Enclosed Non-Combination Controllers♣
					Cat. No.	Cat. No.
380/400/ 415/460	1...3	1.1	0.5...1.5	100...240V AC, 50/60 Hz	150-C3NBD	150-C3FBD
				24V AC/DC	150-C3NBR	—
	3...9	4	1.5...5	100...240V AC, 50/60 Hz	150-C9NBD	150-C9FBD
				24V AC/DC	150-C9NBR	—
	5.3...16	7.5	5...10	100...240V AC, 50/60 Hz	150-C16NBD	150-C16FBD
				24V AC/DC	150-C16NBR	—
	6.3...19	7.5	5...10	100...240V AC, 50/60 Hz	150-C19NBD	150-C19NBR
				24V AC/DC	150-C19NBR	—
	9.2...25	11	7.5...15	100...240V AC, 50/60 Hz	150-C25NBD	150-C25NBR
				24V AC/DC	150-C25NBR	—
	10...30	15	7.5...20	100...240V AC, 50/60 Hz	150-C30NBD	150-C30FBD
				24V AC/DC	150-C30NBR	—
	12.3...37	18.5	10...25	100...240V AC, 50/60 Hz	150-C37NBD	150-C37FBD
				24V AC/DC	150-C37NBR	—
	14.3...43	22	10...30	100...240V AC, 50/60 Hz	150-C43NBD	150-C43FBD
				24V AC/DC	150-C43NBR	—
	20...60	30	15...40	100...240V AC, 50/60 Hz	150-C60NBD	150-C60FBD
				24V AC/DC	150-C60NBR	—
	28.3...85	45	25...60	100...240V AC, 50/60 Hz	150-C85NBD	150-C85FBD
				24V AC/DC	150-C85NBR	—
27...108	55	50...75	100...240V AC, 50/60 Hz	150-C108NBD	150-C108FBD	
			24V AC/DCΔ	150-C108NBR	—	
34...135	75	60...100	100...240V AC, 50/60 Hz	150-C135NBD	150-C135FBD	
			24V AC/DCΔ	150-C135NBR	—	
67...201	95...110	75...150	100...240V AC, 50/60 Hz	150-C201NBD	150-C201FBD	
			24V AC/DCΔ	150-C201NBR	—	
84...251	95...132	100...200	100...240V AC, 50/60 Hz	150-C251NBD	150-C251FBD	
			24V AC/DCΔ	150-C251NBR	—	
106...317	95...160	125...250	100...240V AC, 50/60 Hz	150-C317NBD	150-C317FBD	
			24V AC/DCΔ	150-C317NBR	—	
120...361	110...200	250...300	100...240V AC, 50/60 Hz	150-C361NBD	150-C361FBD	
			24V AC/DCΔ	150-C361NBR	—	
160...480	160...250	300...400	100...240V AC, 50/60 Hz	150-C480NBD	150-C480FBD	
			24V AC/DCΔ	150-C480NBR	—	

‡ Motor FLA rating should fall within specified current range for unit to operate properly.

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Δ Separate 120V or 240V single phase is required for fan operation.

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**SMC™-3 Smart Motor Controllers**  
 Product Selection

Open Type Controllers — For use with Delta-Connected Motors

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type
					Cat. No.
200/208	1.7...5.1	—	1	100...240V AC, 50/60 Hz	150-C3NBD
		—		24V AC/DC	150-C3NBR
	5.1...16	—	1.5...3	100...240V AC, 50/60 Hz	150-C9NBD
		—		24V AC/DC	150-C9NBR
	9.1...27.6	—	3...7.5	100...240V AC, 50/60 Hz	150-C16NBD
		—		24V AC/DC	150-C16NBR
	10.9...32.8	—	3...10	100...240V AC, 50/60 Hz	150-C19NBD
		—		24V AC/DC	150-C19NBR
	14.3...43	—	3...10	100...240V AC, 50/60 Hz	150-C25NBD
		—		24V AC/DC	150-C25NBR
	17.3...52	—	5...10	100...240V AC, 50/60 Hz	150-C30NBD
		—		24V AC/DC	150-C30NBR
	21...64	—	7.5...20	100...240V AC, 50/60 Hz	150-C37NBD
		—		24V AC/DC	150-C37NBR
	25...74	—	7.5...20	100...240V AC, 50/60 Hz	150-C43NBD
		—		24V AC/DC	150-C43NBR
	34.6...104	—	15...30	100...240V AC, 50/60 Hz	150-C60NBD
		—		24V AC/DC	150-C60NBR
	50...147	—	15...40	100...240V AC, 50/60 Hz	150-C85NBD
		—		24V AC/DC	150-C85NBR
47...187	—	20...60	100...240V AC, 50/60 Hz	150-C108NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C108NBR	
59...234	—	20...75	100...240V AC, 50/60 Hz	150-C135NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C135NBR	
116...348	—	75...100	100...240V AC, 50/60 Hz	150-C201NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C201NBR	
145...435	—	100...150	100...240V AC, 50/60 Hz	150-C251NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C251NBR	
183...549	—	100...200	100...240V AC, 50/60 Hz	150-C317NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C317NBR	
208...625	—	125...200	100...240V AC, 50/60 Hz	150-C361NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C361NBR	
277...831	—	200...300	100...240V AC, 50/60 Hz	150-C480NBD	
	—		24V AC/DC <sup>Δ</sup>	150-C480NBR	

‡ Motor FLA rating should fall within specified current range for unit to operate properly.

Δ Separate 120V or 240V single phase is required for fan operation.

### Open Type Controllers — For use with Delta-Connected Motors, Continued

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type
					Cat. No.
230	1.7...5.1	0.25...1.1	1	100...240V AC, 50/60 Hz	150-C3NBD
				24V AC/DC	150-C3NBR
	5.1...16	1.1...4	1...5	100...240V AC, 50/60 Hz	150-C9NBD
				24V AC/DC	150-C9NBR
	9.1...27.6	2.2...7.5	3...7.5	100...240V AC, 50/60 Hz	150-C16NBD
				24V AC/DC	150-C16NBR
	10.9...32.8	2.2...7.5	3...10	100...240V AC, 50/60 Hz	150-C19NBD
				24V AC/DC	150-C19NBR
	14.3...43	4...11	3...15	100...240V AC, 50/60 Hz	150-C25NBD
				24V AC/DC	150-C25NBR
	17.3...52	4...15	5...15	100...240V AC, 50/60 Hz	150-C30NBD
				24V AC/DC	150-C30NBR
	21...64	5.5...18.5	7.5...20	100...240V AC, 50/60 Hz	150-C37NBD
				24V AC/DC	150-C37NBR
	25...74	5.5...22	7.5...25	100...240V AC, 50/60 Hz	150-C43NBD
				24V AC/DC	150-C43NBR
	34.6...104	7.5...30	15...40	100...240V AC, 50/60 Hz	150-C60NBD
				24V AC/DC	150-C60NBR
	50...147	15...45	20...50	100...240V AC, 50/60 Hz	150-C85NBD
				24V AC/DC	150-C85NBR
47...187	55	20...60	100...240V AC, 50/60 Hz	150-C108NBD	
			24V AC/DC $\Delta$	150-C108NBR	
59...234	75	25...75	100...240V AC, 50/60 Hz	150-C135NBD	
			24V AC/DC $\Delta$	150-C135NBR	
116...348	110	75...125	100...240V AC, 50/60 Hz	150-C201NBD	
			24V AC/DC $\Delta$	150-C201NBR	
145...435	132	100...150	100...240V AC, 50/60 Hz	150-C251NBD	
			24V AC/DC $\Delta$	150-C251NBR	
183...549	160	125...200	100...240V AC, 50/60 Hz	150-C317NBD	
			24V AC/DC $\Delta$	150-C317NBR	
208...625	200	150...250	100...240V AC, 50/60 Hz	150-C361NBD	
			24V AC/DC $\Delta$	150-C361NBR	
277...831	250	200...300	100...240V AC, 50/60 Hz	150-C480NBD	
			24V AC/DC $\Delta$	150-C480NBR	

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$\Delta$  Separate 120V or 240V single phase is required for fan operation.



Bulletin 150  
**SMC™-3 Smart Motor Controllers**  
 Product Selection

Open Type Controllers — For use with Delta-Connected Motors, Continued

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type
					Cat. No.
380/400/415/460	1.7...5.1	0.55...2.2	0.5...2	100...240V AC, 50/60 Hz	150-C3NBD
				24V AC/DC	150-C3NBR
	5.1...16	2.2...7.5	2...7.5	100...240V AC, 50/60 Hz	150-C9NBD
				24V AC/DC	150-C9NBR
	9.1...27.6	4...11	5...15	100...240V AC, 50/60 Hz	150-C16NBD
				24V AC/DC	150-C16NBR
	10.9...32.8	4...15	5...15	100...240V AC, 50/60 Hz	150-C19NBD
				24V AC/DC	150-C19NBR
	14.3...43	5.5...22	7.5...20	100...240V AC, 50/60 Hz	150-C25NBD
				24V AC/DC	150-C25NBR
	17.3...52	7.5...22	7.5...30	100...240V AC, 50/60 Hz	150-C30NBD
				24V AC/DC	150-C30NBR
	21...64	7.5...30	10...40	100...240V AC, 50/60 Hz	150-C37NBD
				24V AC/DC	150-C37NBR
	25...74	11...37	10...50	100...240V AC, 50/60 Hz	150-C43NBD
				24V AC/DC	150-C43NBR
	34.6...104	15...55	20...75	100...240V AC, 50/60 Hz	150-C60NBD
				24V AC/DC	150-C60NBR
	50...147	22...75	25...100	100...240V AC, 50/60 Hz	150-C85NBD
				24V AC/DC	150-C85NBR
47...187	90	40...150	100...240V AC, 50/60 Hz	150-C108NBD	
			24V AC/DC <sup>Δ</sup>	150-C108NBR	
59...234	132	50...150	100...240V AC, 50/60 Hz	150-C135NBD	
			24V AC/DC <sup>Δ</sup>	150-C135NBR	
116...348	160	150...250	100...240V AC, 50/60 Hz	150-C201NBD	
			24V AC/DC <sup>Δ</sup>	150-C201NBR	
145...435	250	200...350	100...240V AC, 50/60 Hz	150-C251NBD	
			24V AC/DC <sup>Δ</sup>	150-C251NBR	
183...549	315	250...450	100...240V AC, 50/60 Hz	150-C317NBD	
			24V AC/DC <sup>Δ</sup>	150-C317NBR	
208...625	355	300...500	100...240V AC, 50/60 Hz	150-C361NBD	
			24V AC/DC <sup>Δ</sup>	150-C361NBR	
277...831	450	350...700	100...240V AC, 50/60 Hz	150-C480NBD	
			24V AC/DC <sup>Δ</sup>	150-C480NBR	

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