

## **SMC™ Flex Smart Motor Controllers**

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

Enclosures other than those listed are available; consult your local Rockwell Automation sales office or Allen-Bradley distributor.

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...5	—	1	100...240V AC, 50/60 Hz	150-F5NBD	150-F5FHD	
				24V AC/DCΔ	150-F5NBR	—	
	5...25	—	5	100...240V AC, 50/60 Hz	150-F25NBD	150-F25FHD	
				24V AC/DCΔ	150-F25NBR	—	
	8.6...43	—	10	100...240V AC, 50/60 Hz	150-F43NBD	150-F43FHD	
				24V AC/DCΔ	150-F43NBR	—	
	12...60	—	15	100...240V AC, 50/60 Hz	150-F60NBD	150-F60FHD	
				24V AC/DCΔ	150-F60NBR	—	
	17...85	—	25	100...240V AC, 50/60 Hz	150-F85NBD	150-F85FHD	
				24V AC/DCΔ	150-F85NBR	—	
	27...108	—	30	100...240V AC, 50/60 Hz	150-F108NBD	150-F108FHD	
				24V AC/DCΔ	150-F108NBR	—	
	34...135	—	40	100...240V AC, 50/60 Hz	150-F135NBD	150-F135FHD	
				24V AC/DCΔ	150-F135NBR	—	
	67...201	—	60	100...240V AC, 50/60 Hz	150-F201NBD	150-F201FHD	
				24V AC/DCΔ	150-F201NBR	—	
	84...251	—	75	100...240V AC, 50/60 Hz	150-F251NBD	150-F251FHD	
				24V AC/DCΔ	150-F251NBR	—	
	106...317	—	100	100...240V AC, 50/60 Hz	150-F317NBD	150-F317FHD	
				24V AC/DCΔ	150-F317NBR	—	
	120...361	—	125	100...240V AC, 50/60 Hz	150-F361NBD	150-F361FHD	
				24V AC/DCΔ	150-F361NBR	—	
	160...480	—	150	100...240V AC, 50/60 Hz	150-F480NBD	150-F480FHD	
				24V AC/DCΔ	150-F480NBR	—	
	208...625	—	200	110/120V AC, 50/60 Hz	150-F625NBE	♣	150-F625JHE
				230/240V AC, 50/60 Hz	150-F625NBA	♣	150-F625JHA
	260...780	—	250	110/120V AC, 50/60 Hz	150-F780NBE	♣	150-F780JHE
				230/240V AC, 50/60 Hz	150-F780NBA	♣	150-F780JHA
	323...970	—	350	110/120V AC, 50/60 Hz	150-F970NBE	—	
				230/240V AC, 50/60 Hz	150-F970NBA	—	
	416...1250	—	400	110/120V AC, 50/60 Hz	150-F1250NBE	—	
				230/240V AC, 50/60 Hz	150-F1250NBA	—	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

♣ 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 power supply is required for fan operation.

♦ Line and load termination are provided as standard.

♣ Available in IP54 (Type 12) enclosure only.

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...5	1.1	1	100...240V AC, 50/60 Hz	150-F5NBD	150-F5FAD	
				24V AC/DCΔ	150-F5NBR	—	
	5...25	5.5	7.5	100...240V AC, 50/60 Hz	150-F25NBD	150-F25FAD	
				24V AC/DCΔ	150-F25NBR	—	
	8.6...43	11	15	100...240V AC, 50/60 Hz	150-F43NBD	150-F43FAD	
				24V AC/DCΔ	150-F43NBR	—	
	12...60	15	20	100...240V AC, 50/60 Hz	150-F60NBD	150-F60FAD	
				24V AC/DCΔ	150-F60NBR	—	
	17...85	22	30	100...240V AC, 50/60 Hz	150-F85NBD	150-F85FAD	
				24V AC/DCΔ	150-F85NBR	—	
	27...108	30	40	100...240V AC, 50/60 Hz	150-F108NBD	150-F108FAD	
				24V AC/DCΔ	150-F108NBR	—	
	34...135	37	50	100...240V AC, 50/60 Hz	150-F135NBD	150-F135FAD	
				24V AC/DCΔ	150-F135NBR	—	
	67...201	55	75	100...240V AC, 50/60 Hz	150-F201NBD	150-F201FAD	
				24V AC/DCΔ	150-F201NBR	—	
	84...251	75	100	100...240V AC, 50/60 Hz	150-F251NBD	150-F251FAD	
				24V AC/DCΔ	150-F251NBR	—	
	106...317	90	125	100...240V AC, 50/60 Hz	150-F317NBD	150-F317FAD	
				24V AC/DCΔ	150-F317NBR	—	
	120...361	110	150	100...240V AC, 50/60 Hz	150-F361NBD	150-F361FAD	
				24V AC/DCΔ	150-F361NBR	—	
	160...480	132	200	100...240V AC, 50/60 Hz	150-F480NBD	150-F480FAD	
				24V AC/DCΔ	150-F480NBR	—	
	208...625	200	250	110/120V AC, 50/60 Hz	150-F625NBE	♣	150-F625JAE
				230/240V AC, 50/60 Hz	150-F625NBA	♣	150-F625JAA
	260...780	250	300	110/120V AC, 50/60 Hz	150-F780NBE	♣	150-F780JAE
				230/240V AC, 50/60 Hz	150-F780NBA	♣	150-F780JAA
	323...970	315	400	110/120V AC, 50/60 Hz	150-F970NBE	—	
				230/240V AC, 50/60 Hz	150-F970NBA	—	
	416...1250	400	500	110/120V AC, 50/60 Hz	150-F1250NBE	—	
				230/240V AC, 50/60 Hz	150-F1250NBA	—	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

♣ 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 power supply is required for fan operation.

♦ Line and load termination are provided as standard.

♣ Available in IP54 (Type 12) enclosure only.

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.	
400/415/460	1...5	2.2	3	100...240V AC, 50/60 Hz	150-F5NBD	150-F5FBD	
				24V AC/DCΔ	150-F5NBR	–	
	5...25	11	15	100...240V AC, 50/60 Hz	150-F25NBD	150-F25FBD	
				24V AC/DCΔ	150-F25NBR	–	
	8.6...43	22	30	100...240V AC, 50/60 Hz	150-F43NBD	150-F43FBD	
				24V AC/DCΔ	150-F43NBR	–	
	12...60	30	40	100...240V AC, 50/60 Hz	150-F60NBD	150-F60FBD	
				24V AC/DCΔ	150-F60NBR	–	
	17...85	45	60	100...240V AC, 50/60 Hz	150-F85NBD	150-F85FBD	
				24V AC/DCΔ	150-F85NBR	–	
	27...108	55	75	100...240V AC, 50/60 Hz	150-F108NBD	150-F108FBD	
				24V AC/DCΔ	150-F108NBR	–	
	34...135	75	100	100...240V AC, 50/60 Hz	150-F135NBD	150-F135FBD	
				24V AC/DCΔ	150-F135NBR	–	
	67...201	110	150	100...240V AC, 50/60 Hz	150-F201NBD	150-F201FBD	
				24V AC/DCΔ	150-F201NBR	–	
	84...251	132	200	100...240V AC, 50/60 Hz	150-F251NBD	150-F251FBD	
				24V AC/DCΔ	150-F251NBR	–	
	106...317	160	250	100...240V AC, 50/60 Hz	150-F317NBD	150-F317FBD	
				24V AC/DCΔ	150-F317NBR	–	
	120...361	200	300	100...240V AC, 50/60 Hz	150-F361NBD	150-F361FBD	
				24V AC/DCΔ	150-F361NBR	–	
	160...480	250	400	100...240V AC, 50/60 Hz	150-F480NBD	150-F480FBD	
				24V AC/DCΔ	150-F480NBR	–	
	208...625	355	500	110/120V AC, 50/60 Hz	150-F625NBE	♣	150-F625JBE
				230/240V AC, 50/60 Hz	150-F625NBA	♣	150-F625JBA
	260...780	450	600	110/120V AC, 50/60 Hz	150-F780NBE	♣	150-F780JBE
				230/240V AC, 50/60 Hz	150-F780NBA	♣	150-F780JBA
	323...970	560	800	110/120V AC, 50/60 Hz	150-F970NBE	–	
				230/240V AC, 50/60 Hz	150-F970NBA	–	
416...1250	710	1000	110/120V AC, 50/60 Hz	150-F1250NBE	–		
			230/240V AC, 50/60 Hz	150-F1250NBA	–		

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

♣ 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 power supply is required for fan operation.

♦ Line and load termination are provided as standard.

♣ Available in IP54 (Type 12) enclosure only.

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.	
500/575	1...5	2.2	3	100...240V AC, 50/60 Hz	150-F5NCD	150-F5FCD	
				24V AC/DCΔ	150-F5NCR	–	
	5...25	15	20	100...240V AC, 50/60 Hz	150-F25NCD	150-F25FCD	
				24V AC/DCΔ	150-F25NCR	–	
	8.6...43	22	40	100...240V AC, 50/60 Hz	150-F43NCD	150-F43FCD	
				24V AC/DCΔ	150-F43NCR	–	
	12...60	37	50	100...240V AC, 50/60 Hz	150-F60NCD	150-F60FCD	
				24V AC/DCΔ	150-F60NCR	–	
	17...85	55	75	100...240V AC, 50/60 Hz	150-F85NCD	150-F85FCD	
				24V AC/DCΔ	150-F85NCR	–	
	27...108	75	100	100...240V AC, 50/60 Hz	150-F108NCD	150-F108FCD	
				24V AC/DCΔ	150-F108NCR	–	
	34...135	90	125	100...240V AC, 50/60 Hz	150-F135NCD	150-F135FCD	
				24V AC/DCΔ	150-F135NCR	–	
	67...201	132	200	100...240V AC, 50/60 Hz	150-F201NCD	150-F201FCD	
				24V AC/DCΔ	150-F201NCR	–	
	84...251	160	250	100...240V AC, 50/60 Hz	150-F251NCD	150-F251FCD	
				24V AC/DCΔ	150-F251NCR	–	
	106...317	200	300	100...240V AC, 50/60 Hz	150-F317NCD	150-F317FCD	
				24V AC/DCΔ	150-F317NCR	–	
	120...361	250	350	100...240V AC, 50/60 Hz	150-F361NCD	150-F361FCD	
				24V AC/DCΔ	150-F361NCR	–	
	160...480	315	500	100...240V AC, 50/60 Hz	150-F480NCD	150-F480FCD	
				24V AC/DCΔ	150-F480NCR	–	
	208...625	450	600	110/120V AC, 50/60 Hz	150-F625NCE	♣	150-F625JCE
				230/240V AC, 50/60 Hz	150-F625NCA	♣	150-F625JCA
	260...780	560	800	110/120V AC, 50/60 Hz	150-F780NCE	♣	150-F780JCE
				230/240V AC, 50/60 Hz	150-F780NCA	♣	150-F780JCA
	323...970	710	1000	110/120V AC, 50/60 Hz	150-F970NCE	–	
				230/240V AC, 50/60 Hz	150-F970NCA	–	
416...1250	900	1300	110/120V AC, 50/60 Hz	150-F1250NCE	–		
			230/240V AC, 50/60 Hz	150-F1250NCA	–		

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

♣ 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 power supply is required for fan operation.

♦ Line and load termination are provided as standard.

♣ Available in IP54 (Type 12) enclosure only.

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type — Line-Connected Motors*
					Cat. No.
690/Y§	27...108	90	100	100...240V AC, 50/60 Hz	150-F108NZD
	34...135	132	175	100...240V AC, 50/60 Hz	150-F135NZD
	67...201	160	200	100...240V AC, 50/60 Hz	150-F201NZD
	84...251	200	250	100...240V AC, 50/60 Hz	150-F251NZD
	106...317	315	400	100...240V AC, 50/60 Hz	150-F317NZD
	120...361	355	450	100...240V AC, 50/60 Hz	150-F361NZD
	160...480	450	600	100...240V AC, 50/60 Hz	150-F480NZD
	208...625	630	800	110/120V AC, 50/60 Hz	150-F625NZE
				230/240V AC, 50/60 Hz	150-F625NZA
	260...780	800	1000	110/120V AC, 50/60 Hz	150-F780NZE
				230/240V AC, 50/60 Hz	150-F780NZA
	323...970	1000	1300	110/120V AC, 50/60 Hz	150-F970NZE
				230/240V AC, 50/60 Hz	150-F970NZA
	416...1250	1200	1600	110/120V AC, 50/60 Hz	150-F1250NZE
				230/240V AC, 50/60 Hz	150-F1250NZA

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

♣ 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 power supply is required for fan operation.

♦ Line and load termination are provided as standard.

§ To be used only in a Y-type system.

## 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...8.7	—	2	100...240V AC, 50/60 Hz	150-F5NBD
				24V AC/DCA	150-F5NBR
	8.7...43	—	10	100...240V AC, 50/60 Hz	150-F25NBD
				24V AC/DCA	150-F25NBR
	14.9...74	—	20	100...240V AC, 50/60 Hz	150-F43NBD
				24V AC/DCA	150-F43NBR
	20.8...104	—	30	100...240V AC, 50/60 Hz	150-F60NBD
				24V AC/DCA	150-F60NBR
	29.4...147	—	40	100...240V AC, 50/60 Hz	150-F85NBD
				24V AC/DCA	150-F85NBR
	47...187	—	60	100...240V AC, 50/60 Hz	150-F108NBD
				24V AC/DCA	150-F108NBR
	59...234	—	75	100...240V AC, 50/60 Hz	150-F135NBD
				24V AC/DCA	150-F135NBR
	116...348	—	100	100...240V AC, 50/60 Hz	150-F201NBD
				24V AC/DCA	150-F201NBR
	145...435	—	150	100...240V AC, 50/60 Hz	150-F251NBD
				24V AC/DCA	150-F251NBR
	183...549	—	200	100...240V AC, 50/60 Hz	150-F317NBD
				24V AC/DCA	150-F317NBR
208...625	—	200	100...240V AC, 50/60 Hz	150-F361NBD	
			24V AC/DCA	150-F361NBR	
277...831	—	300	100...240V AC, 50/60 Hz	150-F480NBD	
			24V AC/DCA	150-F480NBR	
283...850	—	300	110/120V AC, 50/60 Hz	150-F625NBE	
			230/240V AC, 50/60 Hz	150-F625NBA	
300...900	—	300	110/120V AC, 50/60 Hz	150-F780NBE	
			230/240V AC, 50/60 Hz	150-F780NBA	
400...1200	—	400	110/120V AC, 50/60 Hz	150-F970NBE	
			230/240V AC, 50/60 Hz	150-F970NBA	
533...1600	—	500	110/120V AC, 50/60 Hz	150-F1250NBE	
			230/240V AC, 50/60 Hz	150-F1250NBA	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

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

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type*
					Cat. No.
230	1.7...8.7	2.2	2	100...240V AC, 50/60 Hz	150-F5NBD
				24V AC/DCA	150-F5NBR
	8.7...43	11	15	100...240V AC, 50/60 Hz	150-F25NBD
				24V AC/DCA	150-F25NBR
	14.9...74	22	25	100...240V AC, 50/60 Hz	150-F43NBD
				24V AC/DCA	150-F43NBR
	20.8...104	30	40	100...240V AC, 50/60 Hz	150-F60NBD
				24V AC/DCA	150-F60NBR
	29.4...147	45	50	100...240V AC, 50/60 Hz	150-F85NBD
				24V AC/DCA	150-F85NBR
	47...187	55	60	100...240V AC, 50/60 Hz	150-F108NBD
				24V AC/DCA	150-F108NBR
	59...234	75	75	100...240V AC, 50/60 Hz	150-F135NBD
				24V AC/DCA	150-F135NBR
	116...348	110	125	100...240V AC, 50/60 Hz	150-F201NBD
				24V AC/DCA	150-F201NBR
	145...435	132	150	100...240V AC, 50/60 Hz	150-F251NBD
				24V AC/DCA	150-F251NBR
	183...549	160	200	100...240V AC, 50/60 Hz	150-F317NBD
				24V AC/DCA	150-F317NBR
	208...625	200	250	100...240V AC, 50/60 Hz	150-F361NBD
				24V AC/DCA	150-F361NBR
	277...831	250	350	100...240V AC, 50/60 Hz	150-F480NBD
				24V AC/DCA	150-F480NBR
283...850	250	350	110/120V AC, 50/60 Hz	150-F625NBE	
			230/240V AC, 50/60 Hz	150-F625NBA	
300...900	250	350	110/120V AC, 50/60 Hz	150-F780NBE	
			230/240V AC, 50/60 Hz	150-F780NBA	
400...1200	400	400	110/120V AC, 50/60 Hz	150-F970NBE	
			230/240V AC, 50/60 Hz	150-F970NBA	
533...1600	500	600	110/120V AC, 50/60 Hz	150-F1250NBE	
			230/240V AC, 50/60 Hz	150-F1250NBA	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

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



Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type*
					Cat. No.
400/415/460	1.7...8.7	4	5	100...240V AC, 50/60 Hz	150-F5NBD
				24V AC/DCA	150-F5NBR
	8.7...43	22	30	100...240V AC, 50/60 Hz	150-F25NBD
				24V AC/DCA	150-F25NBR
	14.9...74	37	50	100...240V AC, 50/60 Hz	150-F43NBD
				24V AC/DCA	150-F43NBR
	20.8...104	55	75	100...240V AC, 50/60 Hz	150-F60NBD
				24V AC/DCA	150-F60NBR
	29.4...147	75	100	100...240V AC, 50/60 Hz	150-F85NBD
				24V AC/DCA	150-F85NBR
	47...187	90	150	100...240V AC, 50/60 Hz	150-F108NBD
				24V AC/DCA	150-F108NBR
	59...234	132	150	100...240V AC, 50/60 Hz	150-F135NBD
				24V AC/DCA	150-F135NBR
	116...348	160	250	100...240V AC, 50/60 Hz	150-F201NBD
				24V AC/DCA	150-F201NBR
	145...435	250	350	100...240V AC, 50/60 Hz	150-F251NBD
				24V AC/DCA	150-F251NBR
	183...549	315	450	100...240V AC, 50/60 Hz	150-F317NBD
				24V AC/DCA	150-F317NBR
208...625	355	500	100...240V AC, 50/60 Hz	150-F361NBD	
			24V AC/DCA	150-F361NBR	
277...831	450	700	100...240V AC, 50/60 Hz	150-F480NBD	
			24V AC/DCA	150-F480NBR	
283...850	500	700	110/120V AC, 50/60 Hz	150-F625NBE	
			230/240V AC, 50/60 Hz	150-F625NBA	
300...900	500	700	110/120V AC, 50/60 Hz	150-F780NBE	
			230/240V AC, 50/60 Hz	150-F780NBA	
400...1200	710	1000	110/120V AC, 50/60 Hz	150-F970NBE	
			230/240V AC, 50/60 Hz	150-F970NBA	
533...1600	900	1400	110/120V AC, 50/60 Hz	150-F1250NBE	
			230/240V AC, 50/60 Hz	150-F1250NBA	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

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

Rated Voltage [V AC]	Motor Current [A]‡	Max. kW, 50 Hz	Max. Hp, 60 Hz	Control Power	Open Type*
					Cat. No.
500/575	1.7...8.7	5.5	7.5	100...240V AC, 50/60 Hz	150-F5NCD
				24V AC/DCA	150-F5NCR
	8.7...43	15	40	100...240V AC, 50/60 Hz	150-F25NCD
				24V AC/DCA	150-F25NCR
	14.9...74	45	60	100...240V AC, 50/60 Hz	150-F43NCD
				24V AC/DCA	150-F43NCR
	20.8...104	55	100	100...240V AC, 50/60 Hz	150-F60NCD
				24V AC/DCA	150-F60NCR
	29.4...147	90	150	100...240V AC, 50/60 Hz	150-F85NCD
				24V AC/DCA	150-F85NCR
	47...187	132	150	100...240V AC, 50/60 Hz	150-F108NCD
				24V AC/DCA	150-F108NCR
	59...234	160	200	100...240V AC, 50/60 Hz	150-F135NCD
				24V AC/DCA	150-F135NCR
	116...348	250	300	100...240V AC, 50/60 Hz	150-F201NCD
				24V AC/DCA	150-F201NCR
	145...435	315	400	100...240V AC, 50/60 Hz	150-F251NCD
				24V AC/DCA	150-F251NCR
	183...549	400	500	100...240V AC, 50/60 Hz	150-F317NCD
				24V AC/DCA	150-F317NCR
208...625	450	600	100...240V AC, 50/60 Hz	150-F361NCD	
			24V AC/DCA	150-F361NCR	
277...831	560	900	100...240V AC, 50/60 Hz	150-F480NCD	
			24V AC/DCA	150-F480NCR	
283...850	560	900	110/120V AC, 50/60 Hz	150-F625NCE	
			230/240V AC, 50/60 Hz	150-F625NCA	
300...900	630	900	110/120V AC, 50/60 Hz	150-F780NCE	
			230/240V AC, 50/60 Hz	150-F780NCA	
400...1200	800	1300	110/120V AC, 50/60 Hz	150-F970NCE	
			230/240V AC, 50/60 Hz	150-F970NCA	
533...1600	1100	1600	110/120V AC, 50/60 Hz	150-F1250NCE	
			230/240V AC, 50/60 Hz	150-F1250NCA	

\* Controllers rated 108 A and greater are not equipped with line and load terminal lugs. See **Terminal Lug Kits (108...1250 A)** for terminal lug kits.

‡ Motor FLA rating should fall within specified current range for unit to operate properly. Special consideration should be given when using a motor with a potentially high starting current (greater than ten times motor FLA) with the SMC Flex in the "Full Voltage" starting mode. Contact Rockwell Automation technical support for further guidance.

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

## Combination Line-Connected Controllers — IP65 (Type 4/12) Enclosed with Fusible Disconnect or Circuit Breaker

These controllers include line and load terminations. Enclosures other than those listed are available; consult your local Rockwell Automation sales office or Allen-Bradley distributor. All 153 bulletin numbers are supplied with thermal magnetic circuit breakers.

The Fusible Disconnects do not come with fuses.

Rated Voltage [V AC]	kW, 50 Hz	Hp, 60 Hz	Controller Current Rating [A] ‡	IP65 (Type 4/12) Enclosed Combination Controllers with Fusible Disconnect★	IP65 (Type 4/12) Enclosed Combination Controllers with Circuit Breaker★
				Cat. No. ♣	Cat. No.
200	—	0.5	5	152H-F5FHD-33	153H-F5FHD-33
	—	0.75	5	152H-F5FHD-34	153H-F5FHD-34
	—	1	5	152H-F5FHD-35	153H-F5FHD-35
	—	1.5	25	152H-F25FHD-36	153H-F25FHD-36
	—	2	25	152H-F25FHD-37	153H-F25FHD-37
	—	3	25	152H-F25FHD-38	153H-F25FHD-38
	—	5	25	152H-F25FHD-39	153H-F25FHD-39
	—	5	25	152H-F25FHD-40	153H-F25FHD-40
	—	10	43	152H-F43FHD-41	153H-F43FHD-41
	—	15	60	152H-F60FHD-42	153H-F60FHD-42
	—	20	85	152H-F85FHD-43	153H-F85FHD-43
	—	25	85	152H-F85FHD-44	153H-F85FHD-44
	—	30	108	152H-F108FHD-45	153H-F108FHD-45
	—	40	135	152H-F135FHD-46	153H-F135FHD-46
	—	50	201	152H-F201FHD-47	153H-F201FHD-47
	—	60	201	152H-F201FHD-48	153H-F201FHD-48
	—	75	251	152H-F251FHD-49	153H-F251FHD-49
	—	100	317	152H-F317FHD-50	153H-F317FHD-50
	—	125	361	152H-F361FHD-51	153H-F361FHD-51
	—	150	480	152H-F480FHD-52	153H-F480FHD-52
—	200	625	Δ 152H-F625JHD-54	Δ 153H-F625JHD-54	
—	250	780	Δ 152H-F780JHD-56	Δ 153H-F780JHD-56	
230	0.37	0.5	5	152H-F5FAD-33	153H-F5FAD-33
	0.55	0.75	5	152H-F5FAD-34	153H-F5FAD-34
	0.75	1	5	152H-F5FAD-35	153H-F5FAD-35
	1.1	1.5	25	152H-F25FAD-36	153H-F25FAD-36
	1.5	2	25	152H-F25FAD-37	153H-F25FAD-37
	2.2	3	25	152H-F25FAD-38	153H-F25FAD-38
	3.7	5	25	152H-F25FAD-39	153H-F25FAD-39
	5.5	7.5	25	152H-F25FAD-40	153H-F25FAD-40
	7.5	10	43	152H-F43FAD-41	153H-F43FAD-41
	11	15	43	152H-F43FAD-42	153H-F43FAD-42
	15	20	60	152H-F60FAD-43	153H-F60FAD-43
	18.5	25	85	152H-F85FAD-44	153H-F85FAD-44
	22	30	85	152H-F85FAD-45	153H-F85FAD-45
	30	40	108	152H-F108FAD-46	153H-F108FAD-46
	37	50	135	152H-F135FAD-47	153H-F135FAD-47
	45	60	201	152H-F201FAD-48	153H-F201FAD-48
	55	75	201	152H-F201FAD-49	153H-F201FAD-49
	75	100	251	152H-F251FAD-50	153H-F251FAD-50
	90	125	317	152H-F317FAD-51	153H-F317FAD-51
	110	150	361	152H-F361FAD-52	153H-F361FAD-52
132	200	480	Δ 152H-F480JAD-54	Δ 153H-F480JAD-54	
185	250	625	Δ 152H-F625JAD-56	Δ 153H-F625JAD-56	
220	300	780	Δ 152H-F780JAD-57	Δ 153H-F780JAD-57	

\* 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.

‡ The nominal current rating for the combination package may differ from the controller, based on the horsepower. Consult your local Rockwell Automation sales office or Allen-Bradley distributor.

♣ Provided with Class J or L fuse clips as standard.

Δ Available in IP54 (Type 12) enclosure only.

Rated Voltage [V AC]	kW, 50 Hz	Hp, 60 Hz	Controller Current Rating [A] ‡	IP65 (Type 4/12) Enclosed Combination Controllers with Fusible Disconnect★	IP65 (Type 4/12) Enclosed Combination Controllers with Circuit Breaker★
				Cat. No. ♣	Cat. No.

400/460	0.37	0.5	5	152H-F5FBD-33		153H-F5FBD-33	
	0.55	0.75	5	152H-F5FBD-34		153H-F5FBD-34	
	0.75	1	5	152H-F5FBD-35		153H-F5FBD-35	
	1.1	1.5	5	152H-F5FBD-36		153H-F5FBD-36	
	1.5	2	5	152H-F5FBD-37		153H-F5FBD-37	
	2.2	3	5	152H-F5FBD-38		153H-F5FBD-38	
	3.7	5	25	152H-F25FBD-39		153H-F25FBD-39	
	5.5	7.5	25	152H-F25FBD-40		153H-F25FBD-40	
	7.5	10	25	152H-F25FBD-41		153H-F25FBD-41	
	11	15	25	152H-F25FBD-42		153H-F25FBD-42	
	15	20	43	152H-F43FBD-43		153H-F25FBD-43	
	18.5	25	43	152H-F43FBD-44		153H-F43FBD-44	
	22	30	43	152H-F43FBD-45		153H-F43FBD-45	
	30	40	60	152H-F60FBD-46		153H-F60FBD-46	
	37	50	85	152H-F85FBD-47		153H-F85FBD-47	
	45	60	85	152H-F85FBD-48		153H-F85FBD-48	
	55	75	108	152H-F108FBD-49		153H-F108FBD-49	
	75	100	135	152H-F135FBD-50		153H-F135FBD-50	
	90	125	201	152H-F201FBD-51		153H-F201FBD-51	
	110	150	201	152H-F201FBD-52		153H-F201FBD-52	
	132	200	251	152H-F251FBD-54		153H-F251FBD-54	
	160	250	317	152H-F317FBD-56		153H-F317FBD-56	
	200	300	361	152H-F361FBD-57		153H-F361FBD-57	
	250	350	480	152H-F480FBD-58		153H-F480FBD-58	
250	400	480	Δ	152H-F480JBD-59	153H-F480FBD-59		
355	500	625	Δ	152H-F625JBD-61	Δ	153H-F625JBD-61	
450	600	780	Δ	152H-F780JBD-62	Δ	153H-F780JBD-62	
500/575	0.55	0.75	5	152H-F5FCD-34		153H-F5FCD-34	
	0.75	1	5	152H-F5FCD-35		153H-F5FCD-35	
	1.1	1.5	5	152H-F5FCD-36		153H-F5FCD-36	
	1.5	2	5	152H-F5FCD-37		153H-F5FCD-37	
	2.2	3	5	152H-F5FCD-38		153H-F5FCD-38	
	3.7	5	25	152H-F25FCD-39		153H-F25FCD-39	
	5.5	7.5	25	152H-F25FCD-40		153H-F25FCD-40	
	7.5	10	25	152H-F25FCD-41		153H-F25FCD-41	
	11	15	25	152H-F25FCD-42		153H-F25FCD-42	
	15	20	43	152H-F43FCD-43		153H-F43FCD-43	
	18.5	25	43	152H-F43FCD-44		153H-F43FCD-44	
	22	30	43	152H-F43FCD-45		153H-F43FCD-45	
	22	40	43	152H-F43FCD-46		153H-F43FCD-46	
	37	50	60	152H-F60FCD-47		153H-F60FCD-47	
	45	60	85	152H-F85FCD-48		153H-F85FCD-48	
	55	75	85	152H-F85FCD-49		153H-F85FCD-49	
	75	100	108	152H-F108FCD-50		153H-F108FCD-50	
	90	125	135	152H-F135FCD-51		153H-F135FCD-51	
	110	150	201	152H-F201FCD-52		153H-F201FCD-52	
	132	200	201	152H-F201FCD-54		153H-F201FCD-54	
	160	250	251	152H-F251FCD-56		153H-F251FCD-56	
	200	300	317	152H-F317FCD-57		153H-F317FCD-57	
	250	350	361	152H-F361FCD-58		153H-F361FCD-58	
	295	400	480	Δ	152H-F480JCD-59	153H-F480FCD-59	
315	450	480	Δ	152H-F480JCD-60	153H-F480FCD-60		
315	500	480	Δ	152H-F480JCD-61	153H-F480FCD-61		
450	600	625	Δ	152H-F625JCD-62	Δ	153H-F625JCD-62	
560	800	780	Δ	152H-F780JCD-65	Δ	153H-F780JCD-65	

\* 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.

‡ The nominal current rating for the combination package may differ from the controller, based on the horsepower. Consult your local Rockwell Automation sales office or Allen-Bradley distributor.

♣ Provided with Class J or L fuse clips as standard.

Δ Available in IP54 (Type 12) enclosure only.