

Bulletin 103H starter in enclosure size A



Bulletin 107H starter in enclosure size C

Bulletin 103H/107H/140M Enclosed Combination Starters and Motor Protectors

Bulletin 103H/107H enclosed combination starters consist of a Bulletin 140M motor protection circuit breaker and a Bulletin 100C/104C contactor in a metallic Type 3/4/12 enclosure.

Bulletin 140M enclosed motor protection circuit breakers consist of a Bulletin 140M motor protection circuit breaker in a metallic Type 3/4/12 enclosure.

Features

- Current range 0.1...45 A
- cULus Listed for control and protection of motor loads
 - Motor disconnect
 - Short-circuit and overload protection
 - Motor switching (magnetic)
- Factory-installed options include
 - Pushbuttons, selector switches, and pilot lights
 - Control transformer
 - Auxiliary and trip indication contacts

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Standards Compliance

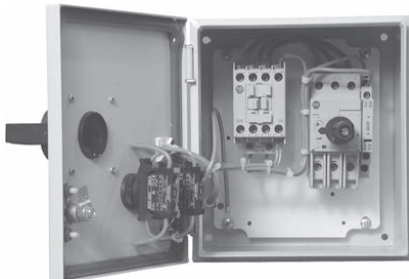
UL 508
 CSA 22.2 No. 14

Certifications

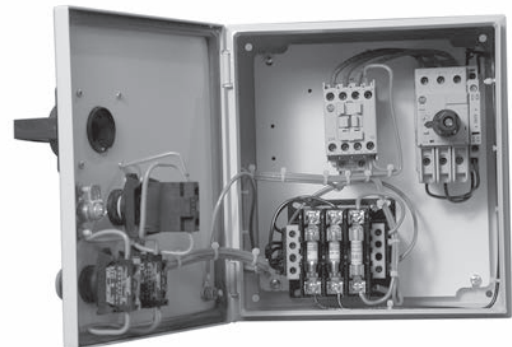
cULus Listed (File No. E 125316, Guide NKJH, NKJH7)

Product Selection

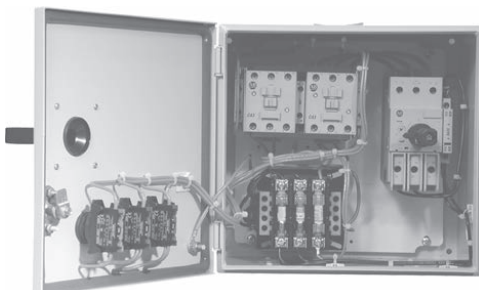
Reversing and Non-reversing Starters



The "A" size box accommodates:
 -103H Non-Reversing Starters
 -Motors up to 15 Hp/480V (23 A)
 -2 pilot devices



The "B" size box accommodates:
 -103H Non-Reversing Starters AND 107H Reversing Starters
 -Motors up to 15 Hp/480V (23 A)
 -Control Transformer and 3 pilot devices



The "C" size box accommodates:
 103H Non-Reversing Starters AND 107H Reversing Starters
 -Motors up to 30 Hp/480V (43 A)
 -Control Transformer and 3 pilot devices

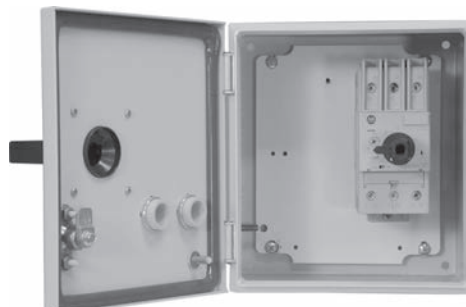


Bulletin 103H/107H/140M
IEC Enclosed Starters
 Product Selection

Enclosed Motor Protectors

- Self-protected UL Type E manual combination motor controller
- 65 kA at 480V
- 30 kA at 600V
- AC control

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Rated Operational Current [A]	Motor Current Adjustment Range [A]	Magnetic Trip Current [A]	Maximum Hp, 3-phase				Cat. No.	Enclosure Size
			200V	230V	460V	575V		
25 A Frame Size								
0.16	0.10...0.16	2.1	—	—	—	—	140M-F-CA16X	A
0.25	0.16...0.25	3.3	—	—	—	—	140M-F-CA25X	A
0.4	0.25...0.40	5.2	—	—	—	—	140M-F-CA40X	A
0.63	0.40...0.63	8.2	—	—	—	—	140M-F-CA63X	A
1	0.63...1.0	13	—	—	0.5	0.75‡	140M-F-CB10X	A
1.6	1.0...1.6	21	—	—	1	1‡	140M-F-CB16X	A
2.5	1.6...2.5	33	0.5	0.75	1.5	2	140M-F-DB25X	A
4	2.5...4.0	52	1	1	3	3	140M-F-DB40X	A
6.3	4.0...6.3	82	1.5	2	5	5	140M-F-DB63X	A
10	6.3...10	130	3	3	7.5	10	140M-F-DC10X	A
16	10...16	208	3	5	10	15	140M-F-DC16X	A
20	14.5...20	260	5	7.5	15	—	140M-F-DC20X	A
25	18...25	325	7.5	7.5	15★	—	140M-F-DC25X	A
45 A Frame Size								
10	6.3...10	130	3	3	7.5	10	140M-F-FC10X	C
16	10...16	208	3	5	10	15	140M-F-FC16X	C
20	14.5...20	260	5	7.5	15	20	140M-F-FC20X	C
25	18...25	325	7.5	10	20	25	140M-F-FC25X	C
32	23...32	416	10	10	25	30	140M-F-FC32X	C
45	32...45	585	15	15	30	—	140M-F-FC45X	C

* 30 kA

‡ 47 kA

Bulletin 103H/107H Factory Installed Modifications

Note: For modifications add (option code §) for desired features to cat. no.

§ Add desired option codes. Example: 103H-AND2-CA16X-KY

Coil Options	
JE*	Electronic Interfaces (100-C)
R*	Surge Suppressor RC (100-C)
V*	Surge Suppressor Varistor (100-C)
D*	Surge Suppressor Diode (100-C)
Additional Contactor Auxiliaries (Side Mount)	
S01*	1 N.C.
S10*	1 N.O.
S11*	1 N.O. + 1 N.C.
S20*	2 N.O.
Additional 140M Auxiliaries (Side Mount)	
A02	2 N.C.
A20	2 N.O.
A11	1 N.O. + 1 N.C.
Additional 140M Trip Contacts (Side Mount)	
R00	1 N.O. Thermal-Mag + 1 N.O. Mag Only
R01	1 N.O. Thermal-Mag + 1 N.C. Mag Only
R10	1 N.C. Thermal-Mag + 1 N.O. Mag Only
R11	1 N.C. Thermal-Mag + 1 N.C. Mag Only
M11	1 N.O. Mag Only + 1 N.C. Mag Only
Control Options	
1	Push Button — 103H Start-Stop / 107H For-Rev-Stop
1M	Multifunction Push Button — 103H Start-Stop / 107H For-Rev-Stop
14RM	Multifunction Push Button — 103H Start-Stop-Pilot Light
3	Selector Switch — 103H Hand-Off-Auto / 107H For-Off-Rev
4R	Pilot Light (red, ON) (103H only)
4RW	Pilot Light (red—FOR, White — REV) (107H only)
6P‡	Control Transformer‡ (not available with enclosure size A)
KY	Bulletin 140M External Handle — Red/Yellow

* 107H - One per contactor, for a total of two per option code.

‡ Starters in enclosure size "A" will change to enclosure size "B" when a control transformer is factory installed.

‡ Auxiliary contact option "A20" is required when selecting this control transformer.

140M Factory Installed Modifications (Enclosed)

Note: For modifications add (option code §) for desired features to cat. no.

§ Add desired option codes. Example: 140M-F-CA16X-UVB

Modifications	
UV®	Undervoltage Trip
SN®	Shunt Trip
Additional 140M Auxiliaries (Side Mount)	
A02	2 N.C.
A20	2 N.O.
A11	1 N.O. + 1 N.C.
Additional 140M Trip Contacts (Side Mount)	
R00	1 N.O. Thermal-Mag + 1 N.O. Mag Only
R01	1 N.O. Thermal-Mag + 1 N.C. Mag Only
R10	1 N.C. Thermal-Mag + 1 N.O. Mag Only
R11	1 N.C. Thermal-Mag + 1 N.C. Mag Only
M11	1 N.O. Mag Only + 1 N.C. Mag Only

Line and Coil Voltage Codes

★ Line Voltage Codes

The Cat. No. as listed is incomplete. Select a line voltage code from the table below to complete the Cat. No.

Example: 208V 60 Hz: **Cat. No. 103H-AF®2-CA16X** becomes **Cat. No. 103H-AFH®2-CA16X**.

Line Voltages [V]	208	230	240	380	400	415	480	600
60 Hz	H	—	A	—	—	—	B	C
50 Hz	—	F	—	N	KN	G	—	—

⊗ Coil Voltage Codes

The Cat. No. as listed is incomplete. Select a coil voltage code from the table below to complete the Cat. No.

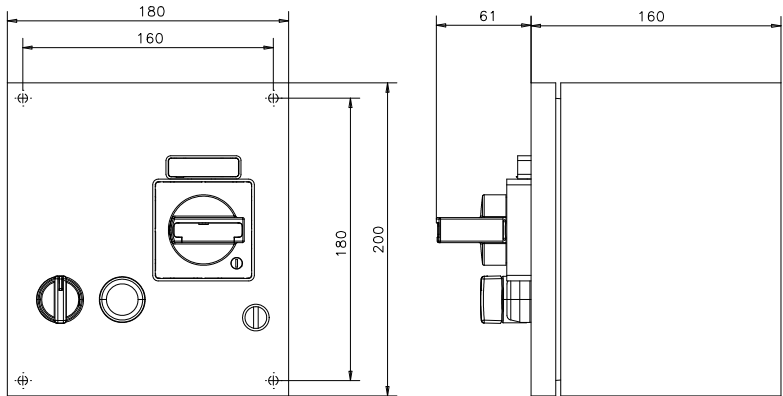
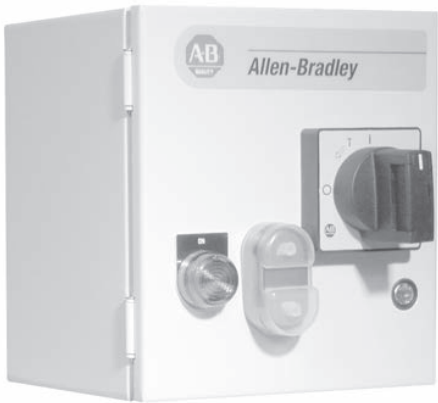
Example: 120V 60 Hz: **Cat. No. 103H-AFH®-CA16X** becomes **Cat. No. 103H-AFHD2-CA16X**.

Standard Coil Voltages [V]	24	110	120	208	220...230	240...260	277	380...400	415	480	600
AC, 50 Hz	K	D	P	—	F	—	—	N	B	—	—
AC, 60 Hz	J	—	D	H	—	A	T	—	—	B	C
AC, 50/60 Hz	KJ	KD	—	—	—	—	—	—	—	—	—

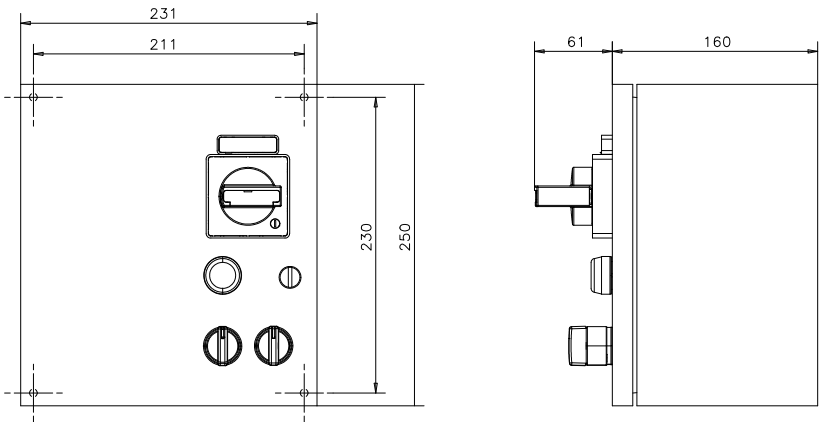
Standard Coil Voltages [V]		24
DC	Standard	ZJ
	With integrated diode	KJ

Dimensions in mm. Dimensions are not intended to be used for manufacturing purposes.

Enclosure Style A



Enclosure Style B



Enclosure Style C

