

# 1C NMC Combination Line Starters and Enclosures

600VAC Heavy Duty

Corrosion-Resistant  
Dust-tight  
Watertight  
Weatherproof  
NEMA 3, 4X, 12

## Applications:

- NMC combination magnetic line starters are for use in across-the-line motor starting, motor disconnect, motor and line protection and start-stop operations.

## Features:

- Enclosures are made of *Krydon*® high impact strength fiberglass-reinforced polyester material having excellent corrosion resistance and stability to heat.
- Unitized, strong and durable enclosure construction provides longer service life for equipment.
- Provided with top and bottom mounting feet.
- Enclosure has hinged access door which opens 160° for easy wiring and maintenance. Three screws for door frame are hidden behind access door.
- Access door may be padlocked to prevent unauthorized access.

## Certifications and Compliances:

- NEMA/EEMAC: 3, 4X and 12

## Electrical Rating Ranges:

- 3-pole, 60 hertz, 600 VAC max.
- Starters – sizes 0, 1, 2, 3, 4
- Breakers – 100, 150, 225 and 250 amp frame
- Switches – 30, 60, 100 amp
- Motor circuit protectors – 15, 30, 50, 100, 150 amp



Combination line starter with optional START-STOP pushbuttons – open view



Combination line starter with optional START-STOP pushbuttons – closed view

## Options:

Description	Suffix
Control circuit transformer 480/240-120 volts, 50 or 60 hertz, (Sizes 0 and 1 – 50VA, Size 2 – 100VA, Size 3 – 150VA, Size 4 – 300VA)	
Fusible	
Secondary.....	FT
Primary and secondary.....	FTPS
Auxiliary Contact on Starter or Contactor*	
1NO/1NC.....	S781
2 NO/2 NC.....	S782
3 NO/3 NC.....	S783
Auxiliary Switch on Circuit Breaker or Motor Circuit Protector*	
1A/1B .....	S784
2A/2B .....	S785
Time delay low voltage release for 3-wire control with 2, 4 or 6- second adjustment. For single- speed, non-reversing starters only. Control circuit voltage:	
120 volt, 60 hertz.....	LVR1†
240 volt, 60 hertz.....	LVR2†
480 volt, 60 hertz.....	LVR4†

## Description

Description	Suffix
Pilot lights, 120 V primary – specify other primary voltages as required:	
Red pilot light.....	J1
Green pilot light.....	J3
LED pilot lights in place of standard incandescent pilot lamps	LED
Pushbutton (heavy duty, uses two device holes):	
START-STOP.....	PB13
Selector Switch (heavy duty)	
ON-OFF.....	RR17
HAND-OFF-AUTO.....	RR18
JOG-RUN-OFF.....	RR19
Padlock attachment for:	
Pushbutton.....	S708
Automatic reset overload relay.....	S1
Less overload relays (contactor)....	C
Separate AC control circuit.....	Specify
Insulated, groundable type terminal block for grounded or ungrounded neutral can be supplied.....	S618
Hubs (see "NOTE ON HUBS") – see page 677	
Grounding plate or bushing – see page 677	

\*Application limited by Size 5 starter, contactor or circuit breaker design – consult factory.  
†Option not available on NMC1024B.

**NOTE ON HUBS:** The following number and sizes of hubs (not mounted) are included when combination starters are ordered complete. If enclosures only are ordered, hubs must be ordered separately (see "Options").

Starter Size	Number Included	Hub Size
0	3	3/4
1	1 2	3/4 1
2	1 2	3/4 1 1/2
3	1 2	3/4 2
4	1 2	3/4 2 1/2

**Crouse-Hinds**  
by **F.T.N**

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600VAC Heavy Duty**

Corrosion-Resistant  
Dust-tight  
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**1C**

## Ordering Information - With Circuit Breakers

To order an enclosure complete with starter and breaker, insert the manufacturer's symbols in the designated positions of the catalog number. Symbols are shown in the footnotes.

Select the complete Cat. No. below and specify HP, voltage, frequency, RPM, type and full load ampere rating of motor – or specify ampere rating of heaters. Starters are furnished with three heaters.

Enclosures only can be ordered. Select from listings below. Specific reference table is shown in the listings below. Instantaneous magnetic trip circuit breakers (magnetic circuit interrupters) can be supplied.

Motor Starter			Circuit Breaker		Enclosure	
Max. HP Polyphase	Volts (A-C)	NEMA Size	Trip Setting Amps	Frame	With Starter & Circuit Breaker Cat. #	Without Starter & Circuit Breaker Cat. #
2	120	0	30	EB	NMC1024B ①30EB ②6130	NMC1024B
2	240	0	15	EB	NMC1024B ①15EB ②6230	NMC1024B
3	240	0	20	EB	NMC1024B ①20EB ②6230	NMC1024B
5	240	1	30	EB	NMC1024B ①30EB ②6231	NMC1024B
5	480	0	15	EHD	NMC1024B ①15EHB ②6430	NMC1024B
5	600	0	15	FDB	NMC1024B ①15FB ②6530	NMC1024B
7½	240	1	50	EB	NMC1024B ①50EB ②6231	NMC1024B
7½	480	1	20	EHD	NMC1024B ①20EHB ②6431	NMC1024B
7½	600	1	20	FDB	NMC1024B ①20FB ②6531	NMC1024B
10	240	2	60	EB	NMC1024B2 ①60EB ②6232	NMC1024B2
10	480	1	30	EHD	NMC1024B ①30EHB ②6431	NMC1024B
10	600	1	30	FDB	NMC1024B ①30FB ②6531	NMC1024B
15	240	2	80	EB	NMC1024B2 ①80EB ②6232	NMC1024B2
15	480	2	40	EHD	NMC1024B2 ①40EHB ②6432	NMC1024B2
15	600	1	40	FDB	NMC1024B ①40FB ②6531	NMC1024B
20	240	3	80	EB	NMC1426B ①80EB ②6233	NMC1426B
20	480	2	60	EHD	NMC1024B2 ①60EHB ②6432	NMC1024B2
20	600	2	50	FDB	NMC1024B2 ①50FB ②6532	NMC1024B2
25	240	3	80	EB	NMC1426B ①80EB ②6233	NMC1426B
25	480	2	70	EHD	NMC1024B2 ①70EHB ②6432	NMC1024B2
25	600	2	60	FDB	NMC1024B2 ①60FB ②6532	NMC1024B2
30	240	4	125	JDB‡	NMC2426B ①125JB ②6234	NMC2426B
30	480	3	80	EHD	NMC1426B ①80EHB ②6433	NMC1426B
30	600	3	60	FDB	NMC1426B ①60FB ②6533	NMC1426B
40	240	4	150	JDB‡	NMC2426B ①150JB ②6234	NMC2426B
40	480	3	80	EHD	NMC1426B ①80EHB ②6433	NMC1426B
40	600	3	80	FDB	NMC1426B ①80FB ②6533	NMC1426B
50	240	4	200	JDB‡	NMC2426B ①200JB ②6234	NMC2426B
50	480	3	100	EHD	NMC1426B ①100EHB ②6433	NMC1426B
50	600	3	100	FDB	NMC1426B ①100FB ②6533	NMC1426B
60	480	4	125	JDB‡	NMC2426B ①125JB ②6434	NMC2426B
60	600	4	100	JDB‡	NMC2426B ①100JB ②6534	NMC2426B
75	480	4	150	JDB‡	NMC2426B ①150JB ②6434	NMC2426B
75	600	4	125	JDB‡	NMC2426B ①125JB ②6534	NMC2426B
100	480	4	175	JDB‡	NMC2426B ①175JB ②6434	NMC2426B
100	600	4	150	JDB‡	NMC2426B ①150JB ②6534	NMC2426B

①Circuit Breakers:

Manufacturer	Symbol	Frames			
		100/150A 240V	480V	600V	225/250A 600V
General Electric	TT	TEB	TED§	TED§	TFJ
Square D	DT	FAL§	FAL§	FAL§	KAL
Cutler-Hammer	WT	EB	EHB, EHD	FB, FDB	JB, JDB

②Motor Starters:

Manufacturer	Symbol
Allen-Bradley	AB
General Electric	G
Square D	D
Cutler-Hammer	W

Information on other starter manufacturers on request.

**NOTE ON HUBS:** See page 458.

§Specify voltage.  
‡Formerly "JB"

**Crouse-Hinds**  
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NEMA 3, 4X, 12

## Ordering Information - With Motor Circuit Protector

Motor Starter			Enclosure		
Max. HP Polyphase	Volts (AC)	NEMA Size	MCP Trip Setting Amps	With Starter & MCP Cat. #§	Without Starter & MCP Cat. #
3	240	0	15	NMC1024B ①15MCP ②6230	NMC1024B
5	480	0	15	NMC1024B ①15MCP ②6430	NMC1024B
5	600	0	15	NMC1024B ①15MCP ②6530	NMC1024B
7½	240	1	30	NMC1024B ①30MCP ②6231	NMC1024B
10	480	1	30	NMC1024B ①30MCP ②6431	NMC1024B
10	600	1	30	NMC1024B ①30MCP ②6531	NMC1024B
15	240	2	50	NMC1024B2 ①50MCP ②6232	NMC1024B2
25	480	2	50	NMC1024B2 ①50MCP ②6432	NMC1024B2
25	600	2	50	NMC1024B2 ①50MCP ②6532	NMC1024B2
30	240	3	100	NMC1426B ①100MCP ②6233	NMC1426B
50	480	3	100	NMC1426B ①100MCP ②6433	NMC1426B
50	600	3	100	NMC1426B ①100MCP ②6533	NMC1426B
50	240	4	150	NMC2426P ①150MCP ②6234	NMC2426P
100	480	4	150	NMC2426P ①150MCP ②6434	NMC2426P
100	600	4	150	NMC2426P ①150MCP ②6534	NMC2426P

①Motor Circuit Protectors:

Manufacturer	Symbol
General Electric	G
Cutler-Hammer	W

**NOTE ON HUBS:** See page 458.

§ With motor circuit protector only. For motor circuit protector with current limiter – information on request.

②Motor Starters:

Manufacturer	Symbol
Allen-Bradley	AB
Square D	D
General Electric	G
Cutler-Hammer	W

Information on other starter manufacturers on request.

## Ordering Information - With Non-fusible Disconnect Switch

To order an enclosure complete with disconnect switch, insert the manufacturer's symbol in the designated positions of the catalog number. Symbols are shown in the footnotes.

Enclosures only can be ordered. Select from listings below.

Motor Starter			Non-fusible Disconnect Switch	Enclosure	
Max. HP Polyphase	Volts (AC)	NEMA Size	Switch Size-Amps	With Starter & Disconnect Switch Cat. #	Without Starter & Disconnect Switch Cat. #
3	240	0	30	NMC1024D ①30 ②6230	NMC1024D ①
5	480	0	30	NMC1024D ①30 ②6430	NMC1024D ①
5	600	0	30	NMC1024D ①30 ②6530	NMC1024D ①
7½	240	1	30	NMC1024D ①30 ②6231	NMC1024D ①
10	480	1	30	NMC1024D ①30 ②6431	NMC1024D ①
10	600	1	30	NMC1024D ①30 ②6531	NMC1024D ①
15	240	2	60	NMC1426D ①60 ②6232	NMC1426D ①
25	480	2	60	NMC1426D ①60 ②6432	NMC1426D ①
25	600	2	60	NMC1426D ①60 ②6532	NMC1426D ①
30	240	3	100	NMC2426D ①100 ②6233	NMC2426D ①
50	480	3	100	NMC2426D ①100 ②6433	NMC2426D ①
50	600	3	100	NMC2426D ①100 ②6533	NMC2426D ①

①Disconnect Switches:

Manufacturer	Symbol	Switch Type
General Electric	G	Type QMW
Square D	D	Class 9422
Cutler-Hammer	W	Type DS

**NOTE ON HUBS:** See page 458.

②Motor Starters:

Manufacturer	Symbol
Allen-Bradley	AB
Square D	D
General Electric	G
Cutler-Hammer	W

Information on other starter manufacturers on request.

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## Ordering Information - With Fusible Disconnect Switch

Motor Starter			Fusible Disconnect Switch		Enclosure	
Max. HP Polyphase	Volts AC	NEMA Size	Switch Size-Amps	Fuse Clip Rating-Amps	With Starter & Disconnect Switch Cat. #■	Without Starter & Disconnect Switch Cat. #
3	240	0	30	30	NMC1024D ①3030 ②6230	NMC1024D ①
5	480	0	30	30	NMC1024D ①3030 ②6430	NMC1024D ①
5	600	0	30	30	NMC1024D ①3030 ②6530	NMC1024D ①
7½	240	1	30	30	NMC1024D ①3030 ②6231	NMC1024D ①
7½	240	1	30	60	NMC1024D ①3060 ②6231	NMC1024D ①
10	480	1	30	30	NMC1024D ①3030 ②6431	NMC1024D ①
10	480	1	30	60	NMC1024D ①3060 ②6431	NMC1024D ①
10	600	1	30	30	NMC1024D ①3030 ②6531	NMC1024D ①
10	600	1	30	60	NMC1024D ①3060 ②6531	NMC1024D ①
15	240	2	60	60	NMC1426D ①6060 ②6232	NMC1426D ①
15	240	2	60	100	NMC1426D ①6010 ②6232	NMC1426D ①
25	480	2	60	60	NMC1426D ①6060 ②6432	NMC1426D ①
25	480	2	60	100	NMC1426D ①6010 ②6432	NMC1426D ①
25	600	2	60	60	NMC1426D ①6060 ②6532	NMC1426D ①
25	600	2	60	100	NMC1426D ①6010 ②6532	NMC1426D ①
30	240	3	100	100	NMC2426D ①1010 ②6233	NMC2426D ①
50	480	3	100	100	NMC2426D ①1010 ②6433	NMC2426D ①
50	480	3	100	200	NMC2426D ①1020 ②6433	NMC2426D ①
50	600	3	100	100	NMC2426D ①1010 ②6533	NMC2426D ①

①Disconnect Switches:

Manufacturer	Switch Type	Symbol
General Electric	Type QMW	G
Square D	Class 9422	D
Cutler-Hammer	Type DS	W

**NOTE ON HUBS:** See page 458.

■Fuse clips are arranged for Class H fuses and field modifiable for Class J fuses. For Class R fuses, consult Eaton's Crouse-Hinds.

②Motor Starters:

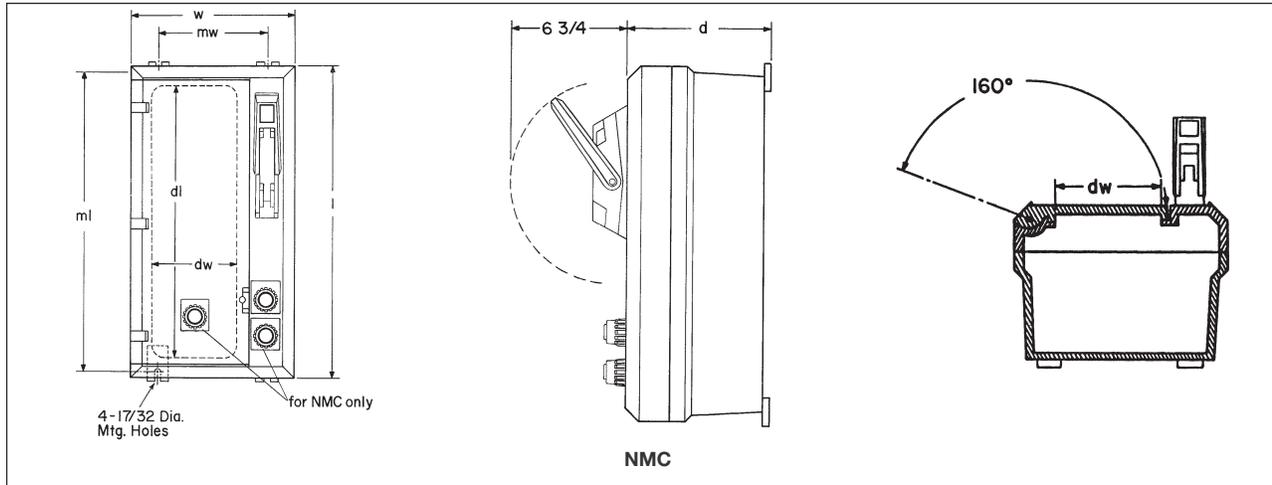
Manufacturer	Symbol
Allen-Bradley	AB
Square D	D
General Electric	G
Cutler-Hammer	W

Information on other starter manufacturers on request.

1C

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## Dimensions In Inches:



Cat. #	Outside Dimensions			Mounting Dimensions		Door Opening Dimensions	
	$l$	$w$	$d$	$mw$	$ml$	$d_i$	$d_w$
NMC1024	$25 \frac{13}{32}$	$11 \frac{13}{32}$	$8 \frac{23}{32}$	$7 \frac{7}{8}$	$25 \frac{3}{8}$	$22 \frac{7}{8}$	$5 \frac{11}{16}$
NMC1426	$27 \frac{13}{32}$	$15 \frac{13}{32}$	$9 \frac{23}{32}$	$11 \frac{7}{8}$	$27 \frac{1}{4}$	$23 \frac{11}{16}$	$9 \frac{11}{16}$
NMC2426	$27 \frac{13}{32}$	$25 \frac{13}{32}$	$9 \frac{23}{32}$	$21 \frac{3}{4}$	$27 \frac{1}{4}$	$23 \frac{11}{16}$	$19 \frac{11}{16}$