

## Explosionproof Combination Motor Starters

### STANDARD FEATURES

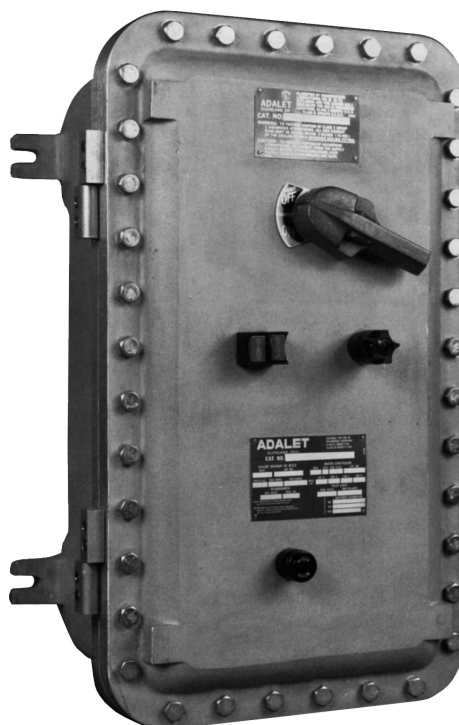
- 11 standard configurations available for NEMA sizes 0 through 5
- Corrosion resistant, copper free aluminum
- Hinged cover
- Internal mounting panel
- NEMA 4 watertight Nitrile gasket
- Premium, high strength stainless steel cover bolts
- Mechanical reset button
- Circuit breaker handle (combo starters only)
- Standard drilled and tapped entries
- Cast-on mounting lugs / feet
- Tumblast, natural aluminum finish

### DESIGN OPTIONS

- Custom conduit (NPT & metric) and device (NPSM) drilling & tapping
- Push buttons, pilot lights, and selector switches
- Auxiliary devices such as breather / drains and flame arrestors
- Custom machining - milling, counter-boring, spot-facing, blind drilled entries, chamfers
- Custom cast-on logos
- Powder and epoxy coatings for additional corrosion resistance
- Special mounting provisions
- Panel wiring

### MATERIAL

- Enclosure - copper free aluminum (¾ of 1%)
- Cover bolts - stainless steel 316L
- Hinge kits - copper free aluminum with stainless steel 316L hardware



### CERTIFICATIONS

Class I, Div. 1, Gas Groups B, C, D	UL 1203
Class II, Div. 2, Gas Groups EFG	CSA C22.2 No. 30
Class III	UL 1604
NEMA Type 4, 7, 9	UL 50



## Explosionproof Combination Motor Starters

(Enclosure only - does not include breaker or starter)

### \*COMBINATION FULL VOLTAGE NON-REVERSING STARTERS

MAX STARTER NEMA SIZE	STD. BREAKER FRAME SIZE	ENCLOSURE
0 & 1	100	XCBSAQ-N4
2	100	XCBSBQ-N4
3	100	XCBSLQ-N4
4	225/250	XCBSMQ-N4
5	400	XCBSN-N4

### \*COMBINATION FULL VOLTAGE FULL REVERSING STARTERS

MAX STARTER NEMA SIZE	STD. BREAKER FRAME SIZE	ENCLOSURE
0 & 1	100	XCMRSG-N4
2	100	XCMRSK-N4
3	100	XCMRSP-N4

### \*ACROSS THE LINE FULL VOLTAGE NON-REVERSING STARTERS

MAX STARTER NEMA SIZE	ENCLOSURE
0 & 1	XMSB-N4
2	XMSD-N4
3 & 4	XMSH-N4
5	XMSQ-N4

### \*ACROSS THE LINE FULL VOLTAGE REVERSING STARTERS

MAX STARTER NEMA SIZE	ENCLOSURE
0 & 1	XMRSC-N4
2	XMRSF-N4
3 & 4	XMRSO-N4

## Combination Motor Starter Enclosures

### Full Voltage Non-Reversing (includes breaker and starter)

#### 240 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCBSAQ-N4-2015
3	0	XCBSAQ-N4-2020
5	1	XCBSAQ-N4-2130
7 ½	1	XCBSAQ-N4-2150
10	2	XCBSBQ-N4-2270
15	2	XCBSBQ-N4-22100
20	3	XCBSLQ-N4-23100
30	3	XCBSLQ-N4-23125
40	4	XCBSMQ-N4-24175
50	4	XCBSMQ-N4-24200
60	5	XCBSN-N4-25225
75	5	XCBSN-N4-25300
100	5	XCBSN-N4-25400

#### 480 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCBSAQ-N4-4015
5	0	XCBSAQ-N4-4020
10	1	XCBSAQ-N4-4130
25	2	XCBSBQ-N4-4270
30	3	XCBSLQ-N4-4370
50	3	XCBSLQ-N4-43100
75	4	XCBSMQ-N4-44175
100	4	XCBSMQ-N4-44200
125	5	XCBSN-N4-45225
150	5	XCBSN-N4-45300
200	5	XCBSN-N4-45400

#### 600 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCBSAQ-N4-6015
5	0	XCBSAQ-N4-6020
10	1	XCBSAQ-N4-6130
25	2	XCBSBQ-N4-6250
30	3	XCBSLQ-N4-6370
50	3	XCBSLQ-N4-63100
75	4	XCBSMQ-N4-64125
100	4	XCBSMQ-N4-64175
125	5	XCBSN-N4-65200
150	5	XCBSN-N4-65225
200	5	XCBSN-N4-65400

#### 480/600 VOLT AC MOTOR - MCP\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
1	0	XCBSAQ-N4-M6003
2	0	XCBSAQ-N4-M6007
5	0	XCBSAQ-N4-M6015
10	1	XCBSAQ-N4-M6130
25	2	XCBSBQ-N4-M6250
50	3	XCBSLQ-N4-M63100
100	4	XCBSMQ-N4-M64150
200	5	XCBSN-N4-M65400

**NOTE** Overload Heaters Not Included. See options.

\* Trip rating is last 2-3 digits of catalog number

## Combination Motor Starter Enclosures

### Full Voltage Reversing (includes breaker and starter)

#### 240 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCMRSG-N4-2015
3	0	XCMRSG-N4-2020
5	1	XCMRSG-N4-2130
7 ½	1	XCMRSG-N4-2150
10	2	XCMRSK-N4-2270
15	2	XCMRSK-N4-22100
20	3	XCMRSP-N4-23100
30	3	XCMRSP-N4-23125

#### 480 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCMRSG-N4-4015
5	0	XCMRSG-N4-4020
10	1	XCMRSG-N4-4130
25	2	XCMRSK-N4-4270
40	3	XCMRSP-N4-43100
50	3	XCMRSP-N4-43125

#### 600 VOLT AC MOTOR - Thermal Magnetic Breaker\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
2	0	XCMRSG-N4-6015
5	0	XCMRSG-N4-6020
10	1	XCMRSG-N4-6130
25	2	XCMRSK-N4-6250
50	3	XCMRSP-N4-63100

#### 480/600 VOLT AC MOTOR - MCP\*/120V AC Coil

MAXIMUM HP	NEMA SIZE	CATALOG NUMBER
1	0	XCMRSG-N4-M6003
2	0	XCMRSG-N4-M6007
5	0	XCMRSG-N4-M6015
10	1	XCMRSG-N4-M6130
25	2	XCMRSK-N4-M6250
50	3	XCMRSP-N4-M63100
100	4	XCMRSP-N4-M64150

**NOTE** Overload Heaters Not Included. See options.

\* Trip rating is last 2-3 digits of catalog number

## Magnetic Starter Enclosures

### Full Voltage (includes starter)

#### NON-REVERSING\*/120V AC Coil

MAXIMUM HP			NEMA SIZE	CATALOG NUMBER
240V	480V	600V		
3	5	5	0	XMSB-60
7 ½	10	10	1	XMSB-61
15	25	25	2	XMSD-62
30	50	50	3	XMSH-63
50	100	100	4	XMSH-64
100	200	200	5	XMSQ-65

#### REVERSING\*/120V AC Coil

MAXIMUM HP			NEMA SIZE	CATALOG NUMBER
240V	480V	600V		
3	5	5	0	XMRSC-60
7 ½	10	10	1	XMRSC-61
15	25	25	2	XMRSF-62
30	50	50	3	XMRSO-63
50	100	100	4	XMRSO-64

**NOTES** 1. For Nema 4 applications insert "N4" before number 6

2. Overload Heaters Not Included. See Options

## Options, Dimensions and Ordering Instructions

OPTIONS AND ACCESSORIES				
DESCRIPTION	SUFFIX	COMBINATION STARTER	AVAILABLE ON NON-COMB STARTER	UNIVERSAL ENCLOSURE ONLY
Start/Stop Dual Pushbutton (1NO Start, 1NC Stop)	A	•	•	•
Green Start Pushbutton (1NO)	A1	•	•	•
Red Stop Pushbutton (1NC)	A2	•	•	•
Red Stop Pushbutton, Mushroom Head (1NC)	A3	•	•	•
Black Pushbutton (1NO, 1NC)	A4	•	•	•
Auxiliary Switch on Breaker (1A and 1B Contacts)	AS1	•		
Auxiliary Switch on Breaker (2A and 2B Contacts)	AS2	•		
Hand-Off-Auto Selector Switch	B	•	•	•
Selector Switch (2-Position) (1NO, 1NC)	B1	•	•	•
Bell Alarm Switch on Breaker (Specify No. of Contacts)	BA	•		
Pilot Light 120 Volt AC (-See Color Table)	C1*	•	•	•
Pilot Light with Guard 120 Volt AC (-See Color Table)	CG1*	•	•	•
Push-to-Test Light 120 Volt AC (1NO, 1NC) (-See Color Table)	CP1*†	•	•	•
Breather/Drain - installed in bottom	E\$	•	•	•
Breather and Drain installed	EE\$	•	•	•
Auxiliary Contacts on Starter (+NO, -NC) (Specify No. of Contacts)	G (+ -)	•	•	
Time Delay Relay-On Delay (Specify Range)	H1	•	•	
Time Delay Relay-Off Delay (Specify Range)	H2	•	•	
8-Point Terminal Strip	K	•	•	
Epoxy Coating External Only (Specify Color)	L1	•	•	•
Epoxy Coating External and Internal (Specify Color)	L2	•	•	•
Lamacoid Nameplate (Specify Legend)	NP	•	•	•
Overload Heaters (Specify Full Load Amps)	OL	•	•	
Control Relay (Description Required)	R	•	•	
Space Heater (Specify Wattage)	S	•	•	
Shunt Trip on Breaker (Specify Voltage)	ST	•		
50 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T1F	•	•	
100 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T2F	•	•	
150 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T3F	•	•	
200 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T4F	•	•	
250 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T5F	•	•	
300 VA Control Transformer 480V Pri, 120V Sec. W/Fuse Block	T6F	•	•	
Other Control Transformer (Specify VA, Pri. And Sec.)	T7	•	•	
Undervoltage Release on Breaker (Specify Voltage Rating)	UV	•		
Internal Control Wiring	W	•	•	
Other (Specify)	Z	•	•	•

**\* COLOR TABLE**

R - Red  
 G - Green  
 A - Amber  
 B - Blue  
 C - Clear  
 W - White

† Not available in Group B applications.  
 \$ for Group B applications add 'H' to suffix

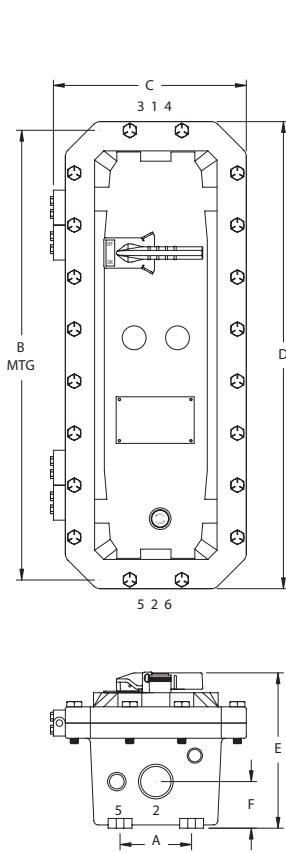
**ORDERING INSTRUCTIONS**

To order any motor control product, use the catalog number followed by the suffix numbers separated by dashes.

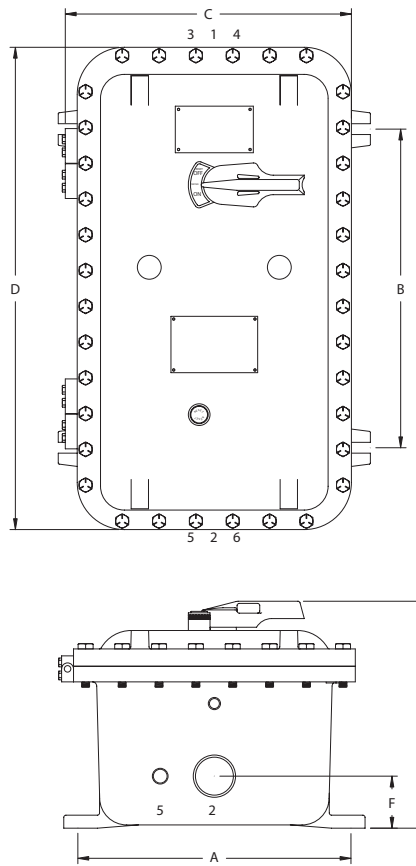
**Example:** XCBSAQ-N4-4130-A-C1R

Combination starter with 480 volt, 30 amp thermal magnetic breaker, NEMA size 1 starter with 120 volt AC coil, start/stop dual pushbutton installed in cover, red 120 volt pilot light installed in cover.

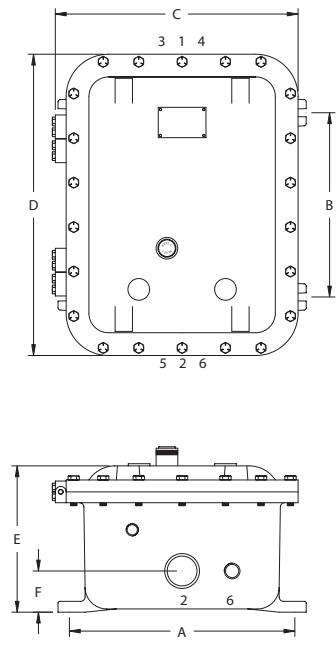
# MOTOR STARTERS



**FIGURE A**



**FIGURE B**



**FIGURE C**

**NOMINAL DIMENSIONS**

Enclosure	Fig #	Nominal Inside Dimensions			Nominal Dimensions in Inches							Ship Weight (lbs.)	Conduit Size
		W	L	D	A	B	C	D	E	F	G		
*XCBSAQ-N4	A	6	23	5	4 1/8	25 1/2	11 1/8	26 15/16	9 11/16	2 1/2	3 & 5	61	1 1/2
*XCBSBQ-N4	A	7	27	6	4 3/4	29 7/8	11 13/16	31 1/8	10 1/2	2 13/16	3 & 5	87	1 1/2
XCBSLQ-N4	B	12	24	8	15 3/4	18 3/8	16 15/16	28 1/4	12 15/16	3	3 & 5	160	2
XCBSMQ-N4	B	12	36	8	15 3/4	29	16 15/16	40 1/4	13 3/8	3 3/8	3 & 5	260	2 1/2
XCB SN-N4	B	16	46	10	19 3/4	39	21 3/4	50 7/8	16 7/16	4 7/8	3 & 5	420	4
XCMRSG-N4	B	12	18	8	15 3/4	14 1/8	17	22 1/4	12 5/8	2 13/16	3 & 6	100	1 1/4
XCMRSK-N4	B	12	24	6	15 3/4	18 3/8	17	28 1/4	10 15/16	3 5/16	3 & 5	130	2
XCMRSP-N4	B	18	36	8	21 3/4	29	23 3/4	40 7/8	14 3/4	4 1/8	3 & 5	395	2
XMSB	C	8	10	6	10 3/4	6 1/2	12	13 3/8	8 1/4	2 3/8	3 & 6	36	1
XMSD	C	10	14	6	13	10 5/8	14	17 3/8	8 3/8	2 3/4	3 & 6	55	1 1/2
XMSH	C	12	18	08	15 3/4	14 1/8	17	22 1/4	10 3/4	3 1/2	3 & 6	105	2 1/2
XMSQ	C	18	36	10	21 3/4	29	23 3/4	40 7/8	14 7/8	4 5/16	3 & 6	380	3
*XMRS C	C	10	14	6	10 5/8	13	18	13 3/8	8 3/8	2 1/4	3 & 5	55	1
*XMRS F	C	12	12	6	8 5/8	15 3/4	17	16 1/4	8 15/16	3	3 & 6	85	1 1/2
*XMRS O	C	18	18	8	13	21 3/4	23 3/4	22 7/16	12 7/16	3 7/8	3 & 6	190	2 1/2

**NOTE:** Standard conduit openings at locations 1 and 2, control circuit opening 3/4" NPT at locations shown in column "G". Each housing has one 1/2" NPT top & bottom for breather and drain

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