

# MOTOR STARTER

## XMS: Explosionproof Magnetic Motor Starter Enclosures/Assemblies

### FEATURES

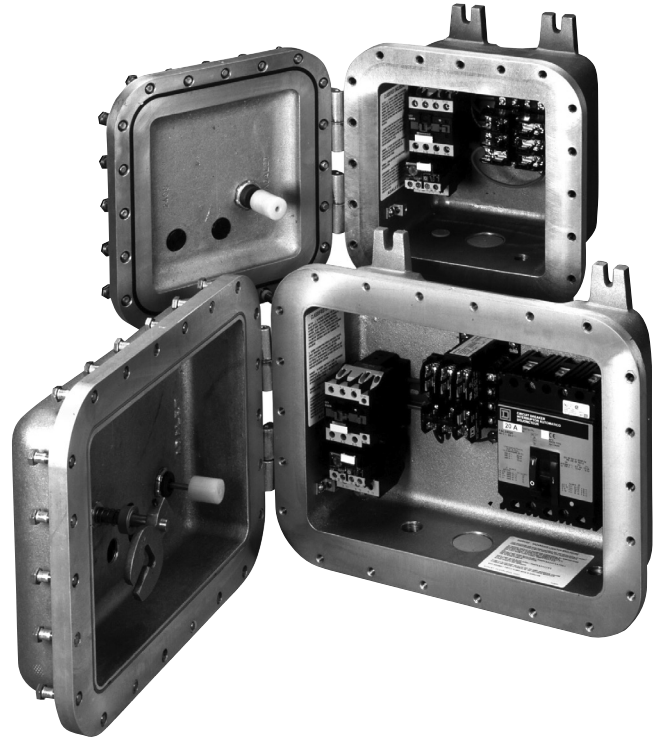
- Motor starters are reversing or non-reversing and are rated 5HP to 200HP
- Through the door mechanical reset button
- Pre-drilled for hinges (hinges optional)
- Pre-drilled for sub-panel (sub-panel optional)
- One-piece, NEMA 4 water-tight gasket
- Premium, high-strength stainless steel captive cover bolts
- Internal grounding provisions
- Cast-on mounting feet
- Tumbast surface preparation for uniform, natural, aluminum finish
- Standard drilled & tapped conduit configurations

### DESIGN OPTIONS

- Sub-Panels – Available in galvanized steel (XSM) or aluminum (XSA)
- Aluminum hinge kits (with stainless steel hardware)
- Non-removable hinges
- Customer specified drilling and tapping
- Installation of operators and auxiliary devices
- Custom machining – milling, counter-boring, spot-facing, blind-tapped holes, etc
- Installation and wiring of internal terminal blocks and control components
- UL Listed NNNY populated / wired control panels
- Multiple coating options for additional corrosion resistance
- Captive cover bolts
- Quad-lead cover bolts
- Auxiliary switches, breather/drain, shunt trip, under-voltage release, transformers, wiring

### MATERIAL

- Enclosures cast from proprietary 359 aluminum alloy
- Standard stainless steel cover bolts are 316L
- XSM panels are #12 gauge galvanized steel (.108" thick)
- XSA panels are #10 gauge aluminum (.100" thick)
- Hinge blocks are 359 aluminum, pins and hardware are 303 stainless steel



### Certifications

Class I, Divisions 1 and 2, Groups B\*, C, and D  
 Class II, Divisions 1 and 2, Groups E, F, and G  
 Class III  
 NEMA Type 4X, 7, and 9

UL 1203/CSA C22.2 No. 30  
 UL50  
 UL1604



\*Group B available without N4 option, consult factory if gas Group B is required.

# 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

# MOTOR STARTER

## Options, Dimensions and Ordering Instructions

### FUSIBLE DISCONNECT SWITCHES

Description	Suffix	AVAILABLE ON		
		Combination Starter	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	.	.	.
Indicator 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

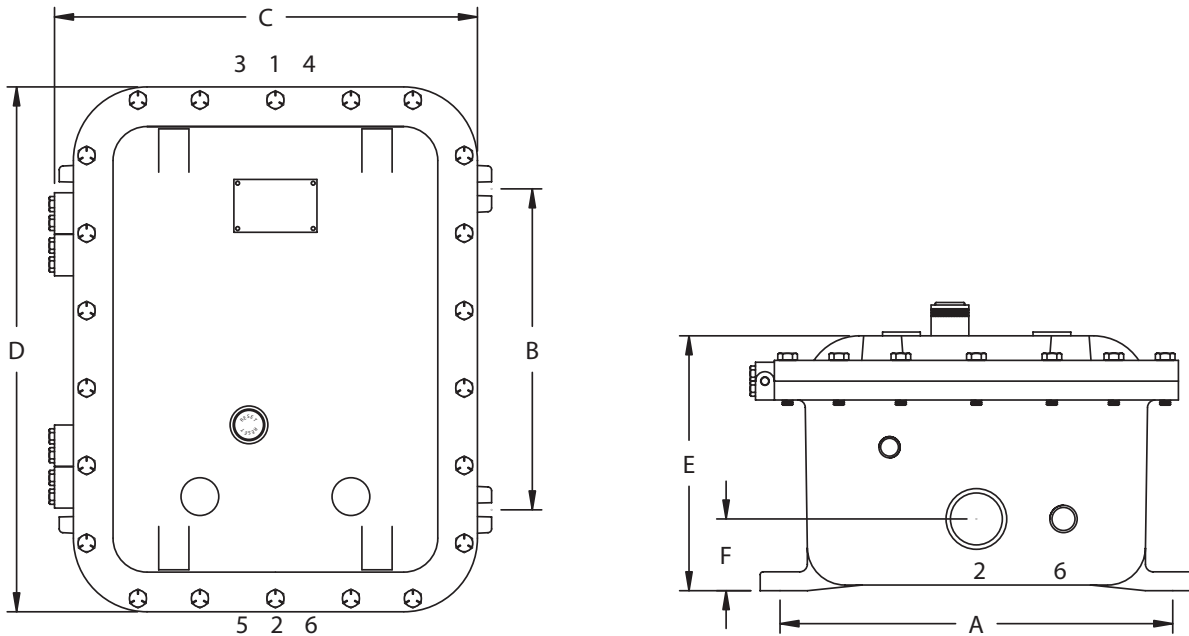
† Not available in Group B applications.  
\$ for Group B applications add 'H' to suffix

### 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.

**FIGURE A**

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		
XMSB	A	8	10	6	10 3/4	6 1/2	12	13 3/8	8 1/4	2 3/8	3 & 6	36	1
XMSD	A	10	14	6	13	10 5/8	14	17 3/8	8 3/8	2 3/4	3 & 6	55	1 1/2
XMSH	A	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	A	18	36	10	21 3/4	29	23 3/4	40 7/8	14 7/8	4 5/16	3 & 6	380	3
*XMRSC	A	10	14	6	10 5/8	13	18	13 3/8	8 3/8	2 1/4	3 & 5	55	1
*XMRSF	A	12	12	6	8 5/8	15 3/4	17	16 1/4	8 15/16	3	3 & 6	85	1 1/2
*XMRSO	A	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

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.

\* Mounting feet on top and bottom.