

Motor Control Explosionproof Motor Starters

MANUAL MOTOR STARTERS

Type XLS Manual Motor Starting Switches are furnished complete with switch and interchangeable heaters. The XLS housings are cast aluminum alloy and have a trouble free operating lever threaded through the cover.

Catalog Number	Number of Hubs	Conduit Size	Poles	Mfg. Bolt Size	Weight (lbs.)
XLSC21 †*	2	1/2	1	1/4"	2 3/4
XLSC22 †*	2	1/2	2	1/4"	2 3/4
XLSC31 †*	2	3/4	1	1/4"	2 3/4
XLSC32 †*	2	3/4	2	1/4"	2 3/4
XLSC2 **	2	1/2	-	1/4"	2 3/4
XLSC3 **	2	3/4	-	1/4"	2 3/4

† = HP Rating
* = Heater Table

MAXIMUM HORSEPOWER RATINGS

†Adalet Symbol	Make & Catalog No.	Poles	115-230 Volts AC	32 Volts DC	115 Volts DC	230 Volts DC
1B	Westinghouse MST01	1	1 H.P.	1/4 H.P.	1/4 H.P.	1/4 H.P.
2B	Westinghouse MST02	2	1 H.P.	1/4 H.P.	1 H.P.	1 H.P.
1C	GE CR101Y	1	1 H.P.	-	1 H.P.	1/4 H.P.
2C	GE CR101H	2	1 H.P.	-	1 H.P.	1 H.P.

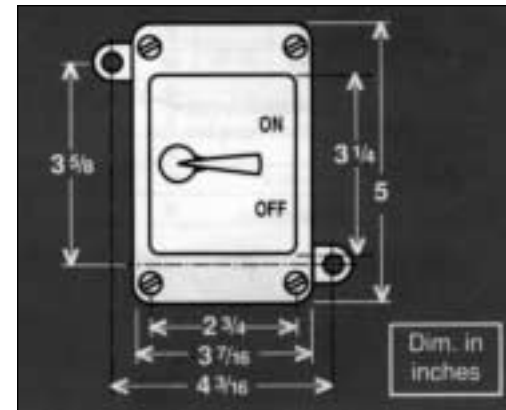
The following tables list interchangeable Heater elements for each manufacturer. The elements are not interchangeable between manufacturers. The heater elements listed are for motors rated 40°C continuous. For motors rated 50°C or 55°C, multiply by 0.9 and use this value to select heaters.

WESTINGHOUSE

*Adalet Symbol	Motor Full Load Current	*Adalet Symbol	Motor Full Load Current	*Adalet Symbol	Motor Full Load Current
1	.40 - .43	14	1.36 - 1.51	27	4.80 - 5.26
2	.44 - .48	15	1.52 - 1.67	28	5.27 - 5.83
3	.49 - .53	16	1.68 - 1.83	29	5.84 - 6.39
4	.54 - .58	17	1.84 - 1.99	30	6.40 - 7.03
5	.59 - .64	18	2.00 - 2.23	31	7.04 - 7.74
6	.65 - .71	19	2.24 - 2.47	32	7.75 - 8.46
7	.72 - .78	20	2.48 - 2.71	33	8.47 - 9.35
8	.79 - .87	21	2.72 - 2.95	34	9.36 - 10.30
9	.88 - .95	22	2.96 - 3.27	35	10.31 - 11.35
10	.96 - 1.03	23	3.28 - 3.59	36	11.36 - 12.47
11	1.04 - 1.15	24	3.60 - 3.99	37	12.48 - 13.67
12	1.16 - 1.27	25	4.00 - 4.39	38	13.68 - 15.12
13	1.28 - 1.35	26	4.40 - 4.79	39	15.13 - 16.00

GE

1	.48	15	1.78	29	5.90
2	.53	16	1.95	30	6.41
3	.58	17	2.13	31	6.98
4	.65	18	2.32	32	7.60
5	.71	19	2.53	33	8.25
6	.78	20	2.76	34	8.95
7	.86	21	3.01	35	9.75
8	.95	22	3.27	36	10.60
9	1.04	23	3.56	37	11.40
10	1.14	24	3.88	38	12.50
11	1.25	25	4.22	39	13.60
12	1.37	26	4.60	40	14.80
13	1.49	27	5.00	41	16.00
14	1.63	28	5.43		



How To Order: To determine the complete catalog number, select the unit wanted and add the Adalet symbol numbers for the make of starter wanted and the heaters required. Select heaters from charts.

** Enclosure less switch - for CSA certified switches rated 600V max, 30 amp max, 15HP max.

Certifications

Class I, Groups C & D
Class II, Groups E, F & G



8E-1

Motor Control Explosionproof Motor Starter/Protector

8E-2

Universal Enclosure Only

To order universal motor starter/protector enclosure, specify enclosure for desired brand of switch and add options from table below.

Enclosure Catalog Numbers

Catalog Number	Number of Hubs	Conduit Size	Suitable Switch Brands
XMMSA1	2	3/4"	Klockner Moeller, Allen Bradley, GE, AEG, Square D
XMMSA2	2	3/4"	Sprecher & Schuh

Enclosures have 1/2" NPT-plugged tops and bottoms to accommodate breather drains.

Example: XMMSA2-EE

describes an enclosure only for a Sprecher & Schuh motor starter with a breather and a drain installed.

Complete Starter Assembly

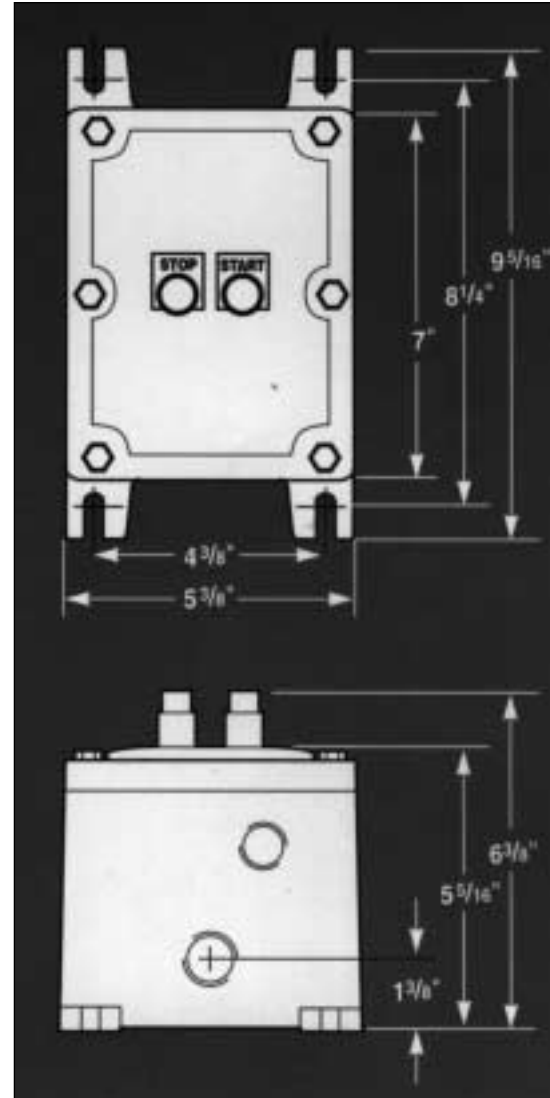
To order a complete starter assembly, specify enclosure number from the table above omitting the last number: insert suffix for switch trip range and options from tables below.

Trip Rating Suffix Table

Suffix	Trip Range (Amps)	Suffix	Trip Range (Amps)	Suffix	Trip Range (Amps)
AT01	.10-.16	AT06	1.0-1.6	AT10	6.0*-10.0
AT02	.16-.25*	AT07	1.6-2.5*	AT11	10.0-16.0*
AT03	.25*-.40	AT08	2.5*-4.0	AT12	16.0*-20.0*
AT04	.40-.60*	AT09	4.0-6.0*	AT13	20.0*-25.0
AT05	.60*-1.0	*May vary slightly depending on brand.			

Example: XMMSA-AT06-AC-C1MG

describes a complete switch assembly with a trip range of 1.0-1.6 amps with 1NO and 1NC auxiliary contacts and a green miniature pilot light installed.



Description	Suffix	Complete Unit	Universal Enclosure Only
Auxiliary Contact (1NO, 1NC)	AC	●	
Amber Miniature Pilot Light	C1MA	●	●
Green Miniature Pilot Light	C1MG	●	●
Red Miniature Pilot Light	C1MR	●	●
Breather/Drain Installed in Bottom	E	●	●
Breather and Drain Installed	EE	●	●
Epoxy Coating External Only	L1	●	●
Epoxy Coating Internal & External	L2	●	●
Lockout Device on Stop P.B.	LD	●	●
Shunt Trip	ST1	●	
Undervoltage Release	UV1	●	

Compliances:

- NEC: Class I, Groups C, D
Class II, Groups E, F, G
- UL Standard 1203
Hazardous (Classified) Locations
- CSA Standard 22.2
- NEMA: 7CD, 9EFG

Approvals:

- UL Classified
 Class I, Groups C, D
Class II, Groups E, F, G
- CSA Certified
 Class I, Groups C, D
Class II, Groups E, F, G