

### COMPACT MANUAL IEC STARTERS



**B7MS1P**  
Push Button Style



**B7MS2R**  
Rotary Style

**Class I, Div. 1 & 2, Groups B, C, D**  
**Class I, Zones 1 & 2, Groups IIB+H<sub>2</sub>, IIA**  
**Class II, Div. 1 & 2, Groups E, F, Ga**  
**Class III, Div. 1 & 2**  
**NEMA 3, 4, 4X, 7 (B, C, D) 9 (E, F, G)**

 Certified - File LR11714

### FEATURES-SPECIFICATIONS

#### Applications

The PRISM® B7MS Series of non-reversing, manual line voltage starters and enclosures are suitable for use in applications requiring manual across-the-line starting and stopping of small single and polyphase AC motors, and where overload protection is needed. Manual starters are generally used on small machine tools, fans and blowers, pumps, compressors, and conveyors as well as many other types of electrical equipment.

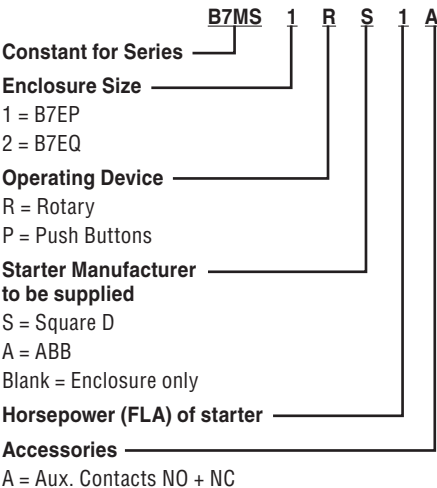
PRISM® enclosures universal design accommodates, as standard, IEC starter manufacturers including Square D, Cutler-Hammer, ABB, Siemens, Moeller, Sprecher + Schuh, Allen-Bradley, Advance Controls, and WEG.

Square D © Schneider Electric  
 Siemens © Siemens AG  
 Moeller © Moeller Electric Corp.

See catalog pg. DE8A for copyrights of other brands referenced.

When ordered with starters, ABB or Square D supplied.

#### Catalog Logic



#### Features

- Compact size enclosures provide application flexibility with cost savings over industry standard sizes
- NEMA 4, 4X rated – providing protection from hose directed water and corrosion
- Pre-drilled to facilitate easy field installation of starters
- 2 operating styles, rotary or push button, including lock-out provision.
- Provisions for drain and breather
- Bolt on ductile mounting lugs
- Two NPT conduit openings provided as standard, with custom openings on request

#### Electrical Rating

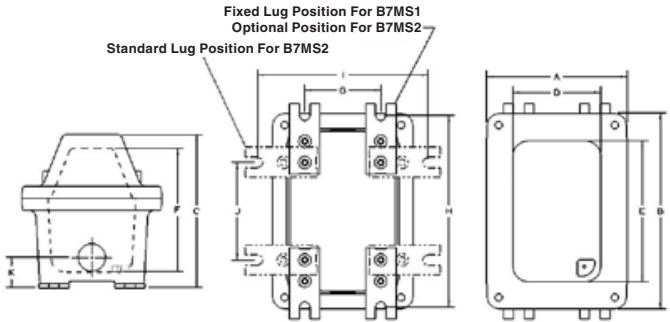
- Starters rated 600V, 3 phase up to 50HP

#### Standard Materials /Finish

- Enclosures: Copper-free aluminum (less than 4/10 of 1% copper content)
- Cover Bolts: 316 Stainless Steel
- O-ring Gasket: Silicone
- Finish: Grey Powder Polyester painted exterior, electrostatically applied

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
A	Auxiliary contacts 1 NO + 1 NC
SU-2	Hinge-9 Installed
SU3B-4X	Drain & Breather installed TYPE 4X
SU3B-4XSS	Drain & Breather installed TYPE 4X SS
B7SPNPT	Change Std. conduit size and location
SU9	Special paint finish
SU14	Fungus proofing of enclosures

#### DIMENSIONS



ENCLOSURE	OUTSIDE BOX DIMENSIONS			NOMINAL INSIDE BOX			MOUNTING DIMENSIONS					CONDUIT SIZE
	A	B	C	D	E	F	G	H	I	J	K	
B7MS1	5-3/4	8-1/16	6-5/16	3-5/8	5-13/16	5-1/16	3-1/8	8-1/8	—	—	1-1/4	1
B7MS2	8-1/8	13-1/16	7-13/16	4-1/4	9-13/16	6-5/16	2-1/2	11-3/8	6-3/8	7-1/2	1-13/16	1-1/2



## B7MS SERIES

### COMPACT MANUAL IEC STARTERS

B7MS – ROTARY STYLE WITH ABB MS132 & MS450 SERIES								
	CATALOG NUMBER	ADJUSTMENT RANGE FLA	SINGLE PHASE HP		THREE PHASE HP			
			120V	230V	200V-208V	230V	480V	600V
ENCLOSURE WITHOUT STARTER  B7MS1R	B7MS1RA-1	0.63 - 1.0					0.5	0.5
	B7MS1RA-2	1.0 - 1.6		0.1			0.75	0.75
	B7MS1RA-3	1.6 - 2.5		0.167		0.5	1	1.5
	B7MS1RA-4	2.5 - 4.0	0.125	0.33		1	2	3
	B7MS1RA-5	4.0 - 6.3	0.25	0.5		1.5	3	5
	B7MS1RA-6	6.3 - 9.0	0.33	1		2.5	5	7.5
	B7MS1RA-7	9.0 - 12.5	0.5	2		3	7.5	10
	B7MS1RA-8	12.5 - 16.0	1	2.5		5	10	10
	B7MS1RA-9	16.0 - 20.0	1.5	3		5	10	15
	B7MS1RA-10	20.0 - 25.0	2	3		7.5	15	20
ENCLOSURE WITHOUT STARTER  B7MS2RA FOR USE WITH ABB ONLY	B7MS1RA-12	11 - 16	1	3	5	5	10	15
	B7MS1RA-13	14 - 20	1.5	3	5	7.5	15	20
	B7MS1RA-14	18 - 25	2	5	7.5	10	20	25
	B7MS1RA-15	22 - 32	3	5	10	10	25	30
	B7MS1RA-16	28 - 40	3	7.5	15	15	30	40
	B7MS1RA-17	36 - 45	5	7.5	15	15	30	40
	B7MS1RA-18	40 - 50	5	10	15	20	40	50
B7MS – PUSH BUTTON STYLE SQUARE D GV2 SERIES								
ENCLOSURE WITHOUT STARTER  B7MS1P*	B7MS1PS-1	0.63 - 1.0					0.5	0.5
	B7MS1PS-2	1.0 - 1.6		0.1			0.75	1
	B7MS1PS-3	1.6 - 2.5		0.167	0.5	0.5	1	1.5
	B7MS1PS-4	2.5 - 4.0	0.125	0.33	0.75	1	2	3
	B7MS1PS-5	4.0 - 6.3	0.25	0.5	1.5	1.5	3	5
	B7MS1PS-6	6.0 - 10.0	0.5	1.5	2	3	5	7.5
	B7MS1PS-7	9.0 - 14.0	0.75	2	3	3	10	10
	B7MS1PS-8	13.0 - 18.0	1	3	5	5	10	15
	B7MS1PS-9	17.0 - 23.0	1.5	3	5	7.5	15	20
	B7MS1PS-10	20.0 - 25.0	2	3	5	7.5	15	20
B7MS1PS-11	24.0 - 32.0	2	5	10	10	20	30	
ENCLOSURE WITHOUT STARTER B7MS2P	GV3 SERIES PUSH BUTTON STARTER	Discontinued by the manufacturer						
B7MS – ROTARY STYLE WITH SQUARE D GV2 & GV3 SERIES								
ENCLOSURE WITHOUT STARTER  B7MS1R	B7MS1RS-1	0.63 - 1.0					0.5	0.5
	B7MS1RS-2	1.0 - 1.6		0.1			0.75	1
	B7MS1RS-3	1.6 - 2.5		0.167	0.5	0.5	1	1.5
	B7MS1RS-4	2.5 - 4.0	0.125	0.33	0.75	1	2	3
	B7MS1RS-5	4.0 - 6.3	0.25	0.5	1.5	1.5	3	5
	B7MS1RS-6	6.0 - 10.0	0.5	1.5	2	3	5	7.5
	B7MS1RS-7	9.0 - 14.0	0.75	2	3	3	10	10
	B7MS1RS-8	13.0 - 18.0	1	3	5	5	10	15
	B7MS1RS-9	17.0 - 23.0	1.5	3	5	7.5	15	20
	B7MS1RS-10	20.0 - 25.0	2	3	5	7.5	15	20
	B7MS2RS-11	24.0 - 32.0	2	5	10	10	20	30
ENCLOSURE WITHOUT STARTER  B7MS2R	B7MS2RS-12	9.0 - 13.0	1	2	3	3	7.5	10
	B7MS2RS-13	12.0 - 18.0	1	3	5	5	10	15
	B7MS2RS-14	17.0 - 25.0	2	3	7.5	7.5	15	20
	B7MS2RS-15	23.0 - 32.0	2	5	10	10	20	30
	B7MS2RS-16	30.0 - 40.0	3	5	10	10	30	30
	B7MS2RS-17	37.0 - 50.0	3	7.5	15	15	40	40
	B7MS2RS-18	48.0 - 65.0	5	10	20	20	50	50

**B7MS1R** – For use with ABB MS116, MS325, MS132 Automation Direct BM3 Cutler-Hammer XTPR Moeller PKZMO Seimens 3RV Sprechet + Schuh KTA7 SQ D Telemecanique GV2P WEG MPW25

**B7MS2R** – For use with Automation Direct BM3 SQ D Telemecanique GV3P

**B7MS2RA** – For use with ABB MS450

**B7MS1P** – For use with Cutler-Hammer XTPB Moeller PKZMO1 SQ D Telemecanique GV2ME WEG MPW25

**B7MS2P** – For use with Advance Control MMS25

**\* B7MS1PRW** – (enclosure without starter) For use with Allen-Bradley 140 Sorecher + Schuh KT4



### COMPACT MANUAL NEMA STARTERS



B7MSN2P



Internal View

#### FEATURES-SPECIFICATIONS

##### Applications

The PRISM® B7MSN Series of nonreversing, manual line voltage starters and enclosures are suitable for use in applications requiring manual across-the-line starting and stopping of small single and polyphase AC motors, and where overload protection is needed. Manual starters are generally used on small machine tools, fans and blowers, pumps, compressors, and conveyors as well as many other types of electrical equipment.

PRISM® enclosures universal design accommodates, as standard, starter manufacturers including

- Allen-Bradley 609 Series
- Cutler-Hammer B100M Series
- GE CR106 Series
- Square D 2510M Series

Allen Bradley © Rockwell Automation  
Cutler-Hammer © Eaton Corporation  
GE © General Electric Company  
Square D © Schneider Electric

##### Features

- Compact size enclosures provide application flexibility with cost savings over industry standard sizes
- NEMA 4, 4X rated – providing protection from hose directed water and corrosion
- Pre-drilled to facilitate easy field installation of starters
- Large double green/red start-stop push buttons
- Can be pad locked in “OFF” position
- Provisions for drain and breather
- Bolt on ductile mounting lugs
- Two 1-1/2” NPT conduit openings provided as standard, with custom openings on request

##### Electrical Rating

NEMA starter sizes 0, 1, 1-1/2 FVNR;  
2 pole single phase = 230 VAC  
3 pole three phase = 600 VAC  
2 pole VDC = 230 VDC

Class I, Div. 1 & 2, Groups B, C, D  
Class I, Zones 1 & 2, Groups IIB+H<sub>2</sub>, IIA  
Class II, Div. 1 & 2, Groups E, F, Ga  
Class III, Div. 1 & 2  
NEMA 3, 4, 4X, 7 (B, C, D) 9 (E, F, G)

Certified – File LR11714

##### Overload Heaters

Heaters are not included, see next page.

##### Standard Materials /Finish

- Enclosures: Copper-free aluminum (less than 4/10 of 1% copper content)
- Cover Bolts: 316 Stainless Steel
- O-ring Gasket: Silicone
- Finish: Grey Powder Polyester painted exterior, electrostatically applied

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
AO	Aux. contact NO only
AC	Aux. contact NC only
SU-2	Hinge-9 Installed
SU3B-4X	Drain & Breather installed TYPE 4X
SU3B-4XSS	Drain & Breather installed TYPE 4X SS
B7SPNPT	Change Std. conduit size and location
SU9	Special paint finish
SU14	Fungus proofing of enclosures

\* NOTE: The installation of a Drain & Breather will void the NEMA 4-4X rating of enclosure.

CATALOG NUMBER			SIZE/ PHASE	SINGLE PHASE HP		THREE PHASE				DC HP	
ENCLOSURE	W/CUTLER-HAMMER	W/ SQUARE D		120VAC	230VAC	208VAC	230VAC	480VAC**	600VAC	115DC	230VDC
B7MSN2P	B7MSN2PC0B	B7MSN2PS0B	M-0 2P	1	2					1 CH	1.5 CH
	B7MSN2PC1B	B7MSN2PS1B	M-1 2P	2	3					1.5 CH	2 CH
		B7MSN2PSDB	M-1P 2P	3	5						
	B7MSN2PC0C	B7MSN2PS0C	M-0 3P			3	3	5	5		
	B7MSN2PC1C	B7MSN2PS1C	M-1 3P			7.5	7.5	10	10		
		B7MSN2PS0V	M-0 2P VDC							1	1.5
		B7MSN2PS1V	M-1 2P VDC							1.5	2

ENCLOSURE	OUTSIDE BOX DIMENSIONS			NOMINAL INSIDE BOX			MOUNTING DIMENSIONS				
	A	B	C	D	E	F	G	H	I	J	K
B7MSN2P	8-1/8	13-1/16	7-13/16	4-1/4	9-3/16	6-5/16	2-1/2	11-3/8	6-3/8	7-1/2	1-13/16

