Features

- Includes three-pole bimetallic overload relay
- Straight-through wiring
- Field mounted auxiliary contacts
- Available in NEMA 1, 4, 7, 9 and 12 enclosures with toggle operation (NEMA 1 enclosure for pushbutton operator)
- Standard with a lockout device to lock motor in the OFF position

Instructional Leaflet

IL14890

Standards and Certifications

- UL File No. E19222, Category NLRV
- CSA File No. LR39402-6, Class 3211-05 (Open Starters)
- CSA File No. LR54517-1, Class 3211-05 (Closed Starters)

Pushbutton Operated

Product Description

The B100 Manual Motor Starters can be used in single-phase applications rated 3 hp at 240V AC or 2 hp at 230V DC. The starter can also be rated for three-phase applications up to 10 hp at 600V AC.

There are two methods of operation for the B100 Manual Starter. It can be ordered with a toggle switch operator or a START/STOP pushbutton operator.

Application Description

The B100 family of Manual Motor Starters provides manual control, as well as overload protection, to both single-phase and three-phase motors. The starter protects motors up to 38.9 amp single-phase and 26.8 amp three-phase with the appropriate heater selection.

Technical Data

Table 38-5. Specifications

NEMA Size	Maximum hp for AC Ratings ①			Maximum hp for DC Ratings	
	120V AC	208 – 240V AC	480 – 600V AC	115V DC	230V DC
2-Pole, Single-Phase					
M-0	1	2	—	1	1-1/2
M-1	2	3	—	1-1/2	2
3-Pole, Three-Phase					
M-0	2	3	5	—	—
M-1	3	7-1/2	10	—	—

① Ratings up to 3 hp, 3-phase are suitable for group fusing.

Options

Table 38-6. Factory Modifications

Description	Catalog Number ② Suffix	Adder U.S. $
Pushbutton operator (open and NEMA 1 only)	**A**	
Without lockoff (open only)	**X**	

② Add Suffix letter to starter Catalog Number Ex: B100MOC**A.**

Accessories

Table 38-7. Accessories

Description	Catalog Number	Price U.S. $
Field Mounting Kits		
1NO elect. auxiliary	**B1A**	
1NC elect. auxiliary	**B1B**	
Red pilot light 120/60 (NEMA 1 Enc. Only)	**LK-21**	
Red pilot light 208-240/6 (NEMA 1 Enc. Only)	**LK-22**	
Red pilot light 480-600/60 (NEMA 1 Enc. Only)	**LK-26**	
For Type 4 and 12 Enclosures Only		
Red pilot light 120V	**LK-41**	
Red pilot light 240V	**LK-42**	

Product Selection

When Ordering Specify

- Catalog Number of Starter with application modifications
- Heater Pack selection — A three-phase starter requires three heaters, and a single-phase starter requires two heaters
- Any required Accessories

Toggle Operated

Type 1 Enclosure

Table 38-8. Product Selection — Toggle and Pushbutton Operated Starters

NEMA Size	Open Type Toggle Handle		Enclosed							
			NEMA 1 General Purpose		NEMA 4 Watertight, Stainless Steel ①		NEMA 7D, 9E, 9F & 9G for Hazardous Locations ②④		NEMA 12 Dust-Tight	
	Catalog Number ③	Price U.S. $	Catalog Number ③	Price U.S. $	Catalog Number ③	Price U.S. $	Catalog Number ③	Price U.S. $	Catalog Number ③	Price U.S. $
Type B100 Non-reversing 2-Pole (For Single-Phase Motors and DC)										
M-0 M-1	**B100M0B** **B100M1B**		**B100S0B** **B100S1B**		**B100W0B** **B100W1B**		**B100U0B** **B100U1B**		**B100J0B** **B100J1B**	
Type B100 Non-reversing 3-Pole (For Polyphase Motors) ④										
M-0 M-1	**B100M0C** **B100M1C**		**B100S0C** **B100S1C**		**B100W0C** **B100W1C**		**B100U0C** **B100U1C**		**B100J0C** **B100J1C**	

① One 1-inch chrome hub supplied on each end.
② NEMA 7D = NEMA 7, Class I, Group D. NEMA 9E, 9F and 9G = NEMA 9, Class II, Groups E, F and G.
③ Starter does not include heaters. Select Catalog Numbers of heaters from **Table 38-9**.
④ Tapped for 1-inch conduit on each end.