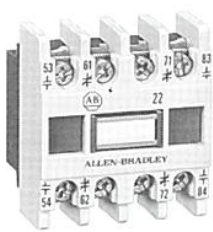


Bulletin 100 Line  
**Accessories — Field Installed**  
 Accessories

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Cat. No. 195-MB22



4-Pole



2-Pole



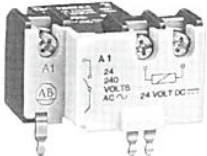
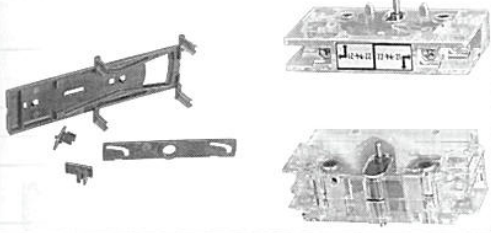

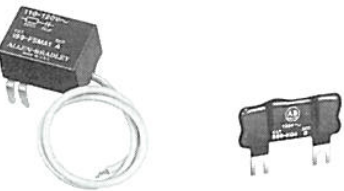


	Description	Used with Cat. No.	Type	Cat. No.	*	
	Auxiliary Contact ① Adder Deck (Top Mounted)	100-M_	2 N.C. 1 N.O....1 N.C. 2 N.O....2 N.C.	193-MB02 ② 193-MB11 ② 193-MB22 ②		
		All A09...A45 100L-_	2 N.O. 1 N.O....1 N.C. 2 N.C. 4 N.O. 3 N.O....1 N.C. 2 N.O....2 N.C. 4 N.C.	195-FA20 195-FA11 195-FA02 195-FA40 195-FA31 195-FA22 195-FA04		
	Gold Plated ① Auxiliary Contact Adder Deck (Top Mounted, 8mA, 24V min.)	100-A09...A45	2 N.O. 1 N.O....1 N.C. 2 N.C. 4 N.O. 3 N.O....1 N.C. 2 N.O....2 N.C. 4 N.C.	195-FA20G 195-FA11G 195-FA02G 195-FA40G 195-FA31G 195-FA22G 195-FA04G		
	Auxiliary Contact ① Adder Deck (Side Mounted)	All A09...A30 100L-_	1 N.O. 1 N.C. 1 N.O....1 N.C. 2 N.O. 2 N.C. 1 N.C. (Late Break) 1 N.O....1 N.C. (Late Break)	195-BA10 195-BA01 195-BA11 195-BA20 195-BA02 195-BL01 195-BL11		
		All A38...B300	1 N.O. 1 N.C. 1 N.O....1 N.C. 2 N.O. 2 N.C. 1 N.C. (Late Break)	195-GA10 195-GA01 195-GA11 195-GA20 195-GA02 195-GL01		
		All B400...B600	1 N.O. 1 N.C. 1 N.O....1 N.C. 2 N.O. 2 N.C.	195-GA10 195-GB01 195-GB11 195-GA20 195-GB02		
		Gold Plated ① Auxiliary Contact Adder Deck (Side Mounted, 8mA, 24V min.)	100-A09...A30	1 N.O. 1 N.C. 1 N.O....1 N.C. 2 N.O. 2 N.C.	195-BA10G 195-BA01G 195-BA11G 195-BA20G 195-BA02G	
		Low Level Switching ① Auxiliary Contact (8mA, 24V min.)	All A38...B300	2 N.O. ③ 2 N.C. ③	195-NX19 195-NX18	
	Solid-State Timing Element	100-M_	0.1...3 Second ON-Delay	196-MT3S ②		
	Star-Delta Timer		1...30 Second ON-Delay	196-MT30S ②		
			220V AC	196-MTSDA2 ②		
			110V AC	196-MTSDA1 ②		
			35mm DIN Rail Mounting Adapter for Above Timers		196-MTM ②	
	Pneumatic Timer	All A09...A45	0.1...180 sec On Delay Off Delay	196-FTA 196-FTB		

① See page 3-56 for maximum number of auxiliary circuits.

② Must be ordered in multiples of 10.

③ For maximum reliability, both contacts should be wired in parallel and used as a single circuit.

	Description	Used with Cat. No.	Type	Cat. No.	*
	Electronic Timing Relay	100-A09...B300 100-L_	WYE-DELTA ON/OFF Delay	700-FS ①	
	Latch Attachment	100-A09...A45	Unlatch VA (Cont. Rated) Inrush: 13.0 @ 50 Hz 14.4 @ 60 Hz Seal: 3.7 @ 50...60 Hz	197-FL ②	
	DC Interface Module	100-A09...A30 A DC input signal can be used to operate the 24...240V AC contactor coil	12V 24V 48V	199-FIMZ12 199-FIMZ24 199-FIMZ48	
	Interlock Kit	100-M_	Mechanical Interlock	199-MXM1	
		100-A09...A30	Dual Interlock with Mechanical and Electrical Interlocks in One Unit	199-MCA1	
		100-A38...B300	Dual Interlock with Mechanical and Electrical Interlocks in One Unit	199-MCD1	
		100-B400	Mechanical Interlock Only	199-MXH1 ③	
		100-B600		199-MXJ1 ③	
	R-C Suppressor	100-M_	24...48V AC	199-MSMA48 ③	
	MOV Suppressor		110...280V AC	199-MSMA1 ③	
			12...55V AC	199-MSMV1 ③	
			56...136V AC	199-MSMV2 ③	
	Diode Suppressor		137...277V AC	199-MSMV3 ③	
			12...250V DC	199-MSMD1 ③	
	Surge Suppressor	100-A09...A30 100L_	12...120V AC R/C	199-FSMA1	
			125...240V AC R/C	199-FSMA2	
		All A09...A30	24...48V AC Varistor	199-FSMA9	
			50...125V AC Varistor	199-FSMA10	
			130...250V AC Varistor	199-FSMA11	
		All A38...B180	6...300V DC Diode	199-FSMZ-1	
			12...120V AC Varistor	599-K04	
		12...240V AC Varistor	599-KA04		
	All B250...B600	12...120V AC Varistor	199-GSMA1		

⊗ **Voltage Suffix Code**

The Cat. No. as listed is incomplete. Select a Voltage Suffix Code from the table below to complete the Cat. No. Example: Cat. No. 197-FL⊗ becomes Cat. No. 197-FLA1.

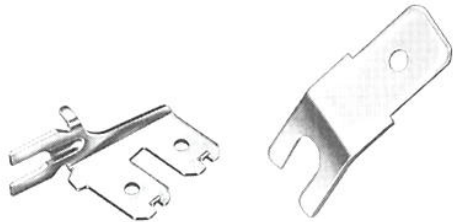
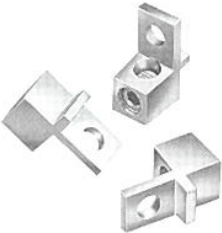


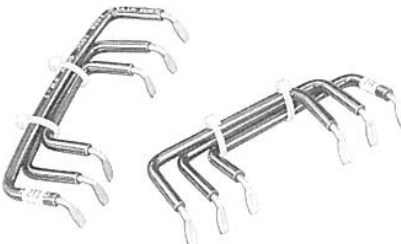
Voltage	24V	110V	120V	220V	240V	380V	415V
50 Hz	B24	A1	—	A2	—	B3	B41
60 Hz	A24	—	A1	—	A2	—	—

- ① The Cat. No. as listed is incomplete. For more information, see Bulletin 700, Type FS, in the Timers and Relays section.
- ② Includes mounting plate and hardware for assembly of reversing contactors.
- ③ Must be ordered in multiples of 10.

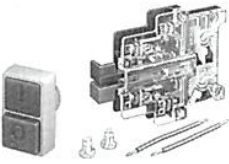

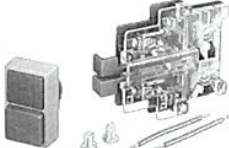



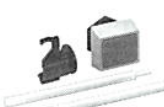


Continued on next page.

Bulletin 100 Line  
**Accessories — Field Installed**  
 Accessories, Continued

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	Description	Used with Cat. No.	Type	Cat. No.	*
 <p>Cat. No. 199-SC1      Cat. No. 199-SC2</p>	Stab Connector Kits	100-A09, A12	Twin Stab for Power Terminals (50 per pack)	199-SC1	
		All Bulletin 100 Contactors	Single Stab for Coil Terminals (20 per pack)	199-SC2	
	Terminal Lug Kit	100-B110 100-B180, 100W-B180_ 100-B250, -B300, 100W-B300_ 100-B400 100-B600, 100W-B600_	3 Lugs per kit	199-LE1 199-LF1 199-LG1 199-LH1 199-LJ1	
	Terminal Cover Kit	100-B110 100-B180 100-B250, B300 100-B400 100-B600	Provides IP20 Finger Protection (1 Pair Per Kit)	199-TCE1 199-TCF1 199-TCG1 193-TCH1 193-TCJ1	
	DIN Rail (1 Meter)	100-A09...A45 ❶	35 x 7.5 mm	199-DR1 ❷	
	Power Wiring Kit	100-A09, A12 100-A18, A24 100-A30 100-A38, A45 100-A60, A75 100-B110 100-B180 100-B250, B300 100-B400 100-B600	Provides Interconnecting Power Wires for 3 ∅ Squirrel Cage Reversing Motors	199-PWA1 199-PWB1 199-PWB2 199-PWC1 199-PWD1 ❶ 199-PWE1 ❶ 199-PWF1 ❶ 199-PWG1 ❶ 199-PWH1 199-PWJ1	

❶ Not for use with Cat. No. 100-A38 and Cat. No. 100-A45 Pure DC Operated Contactors.  
 ❷ Must be ordered in multiples of 10.

	Description	For Use With Cat. No.	For Enclosure Style	Cat. No.	*
	<b>"START-STOP" Push Button</b>	109-A09 and A12	A	198-MS1	
	Flush green "I/START" Extended red "O/STOP"	109-A18 and A24	A	198-MS2	
	<b>"START-STOP" Push Button</b>	All	B & D	198-MS3 ①	
Flush green "I/START" Extended red "O/STOP"					
	<b>"ON-OFF" Push Button</b>	109-A09 and A12	A	198-MS4	
	Flush green "ON" Extended red "OFF"	109-A18 and A24	A	198-MS5	
	<b>"ON-OFF" Push Button</b>	105...133 100L-__	B & D	198-MS6 ①	
	<b>"FORWARD, REVERSE-STOP" Push Buttons</b>	All	B & D	198-MS7 ①	
	<b>"HIGH-LOW, STOP" Push Buttons</b>	All	B & D	198-MS8 ①	
	<b>"FAST-SLOW-STOP" Push Buttons</b>	All		198-MS9 ①	
	<b>External "RESET" Button</b> (for Bimetallic and SMP Overload Relays) Flush gray "R/RESET"	109-A09... A24	A	198-MR1	
	<b>External "RESET" Button</b> (for Bimetallic and SMP Overload Relays) Flush gray "R/RESET"	All	B & D	198-MR3	
	<b>"HAND-OFF-AUTO" Selector Switch</b> 3 Position Maintained Includes Legend Plate	105...133 100L-__	B & D	198-MT1 ①	
	<b>"FORWARD-OFF-REVERSE" Selector Switch</b> 3 Position Maintained	All	B & D	198-MT2 ①	
	<b>"OFF-ON" Selector Switch</b> 2 Position Maintained	105...133 100L-__	B & D	198-MT3	

① Requires mounting bracket Cat. No. 198-BR1 when using enclosure style "B".

Continued on next page.