



IP32 (Type 3R) Oversized Enclosure With Start Push Button and Selector Switch as Standard

Bulletin 133

- IP32 (Type 3R)
- Bimetallic Class 10 Overload Relays
- SMP-1, SMP-2 or SMP-3 Solid-State Overload Relays
- Enclosure with Extra Panel Space for Mounting Accessory Devices

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Description

Bulletin 133 pump control panels are specifically designed for irrigation and similar outdoor pumping applications.

The pump control panel includes a motor circuit protector, a Bulletin 100 IEC contactor, a Bulletin 193 motor protection overload relay (bimetallic or smart motor protection) and a “HAND-OFF-AUTO” selector switch and a “START” button.

Bulletin 133 includes an IP32 (Type 3R) weather-resistant enclosure with a rugged, outdoor finish and brackets for pole or cross bar mounting. Conduit knockouts are located at the bottom of the enclosure. Padlock provisions are furnished on the door latches and the disconnect handle (both the “ON” and “OFF” positions).

Conformity to Standards:

UL 508

Approvals:

UL Listed

Your order must include:

- Cat. No. of the pump control panel.
- Voltage Code Suffix.
- Overload relay code suffix.
- If required, factory installed modifications code suffix.
- If required, Cat. No. of any accessories.

Circuit Breaker Type

Max. le (A)	Ratings (AC3, AC4)				Enclosure Code		IP32 (Type 3R) Sleet Resistant, Outdoor Sheet Metal Enclosure	
	HP ①						Style	Dim.
	3∅							
	200V	230V	460V	575V				
24	1/2 ②	1/2 ②	3/4...1 ②	3/4...1-1/2 ②	F	F01	133-A24M②③-36	
	3/4...1	3/4...1	1-1/2...3	2...3	F	F01	133-A24M②③-38	
	1-1/2...3	1-1/2...3	5...7-1/2	5...10	F	F01	133-A24M②③-41	
	5	5...7-1/2	10...15	15...20	F	F01	133-A24M②③-43	
30	7-1/2	10	20	25	F	F01	133-A30M②③-44	
	10	—	25	30	F	F01	133-A45M②③-45	
45	—	15	30	—	F	F01	133-A45M②③-45X	
	—	—	—	40	F	F01	133-A45M②③-46	
60	15	20	40	50	F	F02	133-A60M②③-47	
75	20	25	50	60	F	F02	133-A75M②③-48	
110	25	30	60	75	F	F03	133-B110M②③-49	
	30	40	75	100	F	F03	133-B110M②③-50	
180	40	50	100	125	F	F04	133-B180M②③-51	
	50	60	125	150	F	F04	133-B180M②③-52	
	60	—	150	—	F	F04	133-B180M②③-52X	
250	—	75	—	200	F	F04	133-B250M②③-54	
	75	100	200	250	F	F04	133-B250M②③-56	

⊗ **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. 133-A09M②③** becomes **Cat. No. 133-A09MB③**.

Voltage		208V	230-240V	460-480V	575-600V
Common Control — Coil Voltage Suffix Code	60 Hz	H	A	B	C
120V Separate Control (without transformer) — Coil Voltage Suffix Code		AD	AD	CD	CD

⊗ **Overload Relay Code**

The Cat. No. as listed is incomplete. Select an overload relay code from page 3-34.

- ① For design "E" motor applications, consult the factory.
- ② For horsepower ratings less than those shown, consult the factory.
- ③ When selecting a factory installed control circuit transformer (see Modifications page 3-44), use the Common Control Voltage Suffix Code to denote the transformer primary voltage. The starter coil and transformer secondary voltage will both be 120V by default. Example: **Cat. No. 133-A24MB③-38-6P** will have a transformer with a 480V primary/120V secondary and a 120V starter coil. If a starter coil voltage other than 120V is desired, a second Voltage Suffix Code must be added to denote the coil/transformer secondary voltage. Example: **Cat. No. 133-A24MBJ③-38-6P** will have a transformer with a 480V primary/24V secondary and a 24V starter coil.

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Bulletin 100 Line
Overload Relay Code Selection
Overload Relay Selection

SMP-1 Overload Relay for 3Ø Applications: Phase Loss Protection, Class 10 or 20

For Use with Bulletin 105, 106, 109, 112, 113, 120E, 132 and 133					Full Load Current Adjustment Range (A)	3Ø Overload Relay Code Manual Reset ①	*	3Ø Overload Relay Code Auto/Manual Reset ②	*
A30	A24	A18	A12	A09	0.1...32	A1A		A4A	
					0.32...1.0	A1C		A4C	
					1.0...2.9	A1D		A4D	
					1.6...5.0	A1E		A4E	
					3.7...12	A1F		A4F	
					12...32	A1H		A4H	
B110	A75	A60	A45	A38	12...38	A1H		A4H	
					14...45	A1J		A4J	
					23...75	A1K		A4K	
					66...110	A1L		A4L	
					B180	A1M		A4M	
					B250 and B300	A1N		A4N	
B400					128...400	A1P		A4P	
B600					200...630	A1R		A4R	
All Sizes — No overload relay						XXX		XXX	

- ① Starter Cat. Nos. listed have Class 10 overload relays. To order Class 20 overload relays, change the overload relay from **A1_** to **A2_**. Example: **Cat. No. 105-A09AB3-A1A** becomes **Cat. No. 105-A09AB3-A2A**.
- ② Starter Cat. Nos. listed have Class 10 overload relays. To order Class 20 overload relays, change the overload relay from **A4_** to **A5_**. Example: **Cat. No. 105-A09AB3-A4A** becomes **Cat. No. 105-A09AB3-A5A**.

SMP-1 Overload Relay for 1Ø Applications: Phase Loss Protection, Class 10 or 20

For Use with Bulletin 105, 106, 109, 112, 113, 120E, 132 and 133					Full Load Current Adjustment Range (A)	1Ø Overload Relay Code Manual Reset ①	*	1Ø Overload Relay Code Auto/Manual Reset ②	*
A30	A24	A18	A12	A09	2...7	S1A		S4A	
					5...15	S1B		S4B	
					12...32	S1C		S4C	
B110	A75	A60	A45	A38	5...15	S1B		S4B	
					12...38	S1E		S4E	
					14...45	S1F		S1F	
					23...75	S1G		S1G	

- ① Starter Cat. Nos. listed have Class 10 overload relays. To order Class 20 overload relays, change the overload relay from **S1_** to **S2_**. Example: **Cat. No. 105-A09AB3-S1A** becomes **Cat. No. 105-A09AB3-S2A**.
- ② Starter Cat. Nos. listed have Class 10 overload relays. To order Class 20 overload relays, change the overload relay from **S4_** to **S5_**. Example: **Cat. No. 105-A09AB3-S4A** becomes **Cat. No. 105-A09AB3-S5A**.

SMP-2 Overload Relay: Auto/Manual Reset, Selectable Trip Class 10, 15, 20 or 30, Phase Loss, Ground Fault, and Jam Protection

For Use with Bulletin 105, 106, 109, 112, 113, 120E, 132 and 133					Full Load Current Range (A)	Overload Relay Code	*	For Use with Cat. No. 105, 106, 109, 112, 113, 120, 132 and 133			Full Load Current Range (A)	Overload Relay Code	*		
A30	A24	A18	A12	A09	0.1...32	B1A		B110	A75	A60	A45	A38	12...38	B1H	
					0.32...1.0	B1C							14...45	B1J	
					1.0...2.9	B1D							23...75	B1K	
					1.6...5.0	B1E							66...110	B1L	
					3.7...12	B1F							B180	B1M	
					12...32	B1H							B250 and B300	B1N	
All Sizes — No overload relay						XXX		B600			200...630	B1R			

SMP-3 Overload Relay

Contact Allen-Bradley Sales Office for availability and dimensions.

Note: Starters with SMP-1, SMP-2 or SMP-3 overload relays are not presently part of the AB Express Program.

Bimetallic Overload Relay: Auto/Manual Reset, Class 10

For Use With Bulletin 105, 106, 109, 112, 113, 120F, 132 and 133			Full Load Current Range (A)	Overload Relay Code	*	For Use With Cat. No. 105, 106, 109, 112, 113, 120, 132 and 133			Full Load Current Range (A)	Overload Relay Code	*			
A24	A18	A12	A09	0.10...16	A18	A75	A60	A45	A38	18...30	C30			
				0.16...24	A26					30...45	C45			
				0.24...40	A35					45...60	C63			
				0.40...60	A70					60...75	C75			
				0.60...1.0	A90					B110		44...66	C66 ①	
				0.80...1.2	B12							66...110	D110 ①	
				1.0...1.6	B16					B180		80...120	D120 ①	
				1.5...2.3	B22							120...200	D200 ①	
				2.0...3.0	B30					B250 & B300		120...180	D180	
				2.8...4.2	B42							180...300	D300	
4.0...6.0	B60			B400		160...240	D240							
5.5...8.0	B80					240...400	D400							
A30				6.0...10	C10	B600		252...378	D378					
				10...16	C15			378...630	D630					
				16...24	C24									
				22...32	C32									
All Sizes — No Overload Relay				XXX										

① Bulletin 112 Starters with overload relay codes -C86, -D110, -D120, -D200 are not part of the AB-Express Program.

IEC Enclosures, Continued



Style "D"

IP66 (Type 3, 4, 12) — Raintight, Dusttight, Metal Enclosures

Enclosure Code		Bulletin Types						Cat. No.	*	Mounting Plate Cat. No.	*
Style	Dim.	105	106	109	112	113	120				
D	A04	—	—	—	A09...A24	A24	—	198E-DA1488T		198E-P148T	
D	A10	—	A09...A45	—	A30...A45	A30...A45	—	198E-DA14168T		198E-P1416T	
D	F08	A09...A45 ❶	—	—	—	—	A09...A45 ❶	198E-DF10106		198E-P1010	
		A09...A24 ❷					A09...A24 ❷				
D	F03	—	—	A09...A45 ❶	—	—	—	198E-DF1286		198E-P128	
				A09...A24 ❷							
D	F09	A60...A75 ❶	—	A30...A45 ❷	—	—	A60...A75 ❶	198E-DF12126		198E-P1212	
		A30...A45 ❷					A30...A45 ❷				
D	F04	—	—	A60...A75 ❶	—	—	—	198E-DF1488		198E-P148	
D	F04	—	—	—	A09...A24 ❶❷	A24 ❶❷	—	198E-DF1488T		198E-P148T	
D	F10	—	—	A60...A75 ❷	—	—	—	198E-DF14168		198E-P1416	
D	F10	—	A09...A45 ❶❷	—	A30...A45 ❶❷	A30...A45 ❶❷	—	198E-DF14168T		198E-P1416T	






- ❶ Without control circuit transformer.
- ❷ With control circuit transformer.

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 Approximate Dimensions — Page 3-66

Bulletin 100 Line
Accessories — Field Installed
Accessories

	Description	Used with Cat. No.	Type	Cat. No.	*
<p>Cat. No. 195-MB22</p> <p>4-Pole</p> <p>2-Pole</p>	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	
			1...30 Second ON-Delay	196-MT30S ②	
	Star-Delta Timer		220V AC	196-MTSDA2 ②	
			110V AC	196-MTSDA1 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 ❶	
 Cat. No. 197-FL_ Cat. No. 199-FIMZ_	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 ❷	
	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		199-MCD1	
		100-B400	Mechanical Interlock Only	199-MXH1 ❸	
		100-B600		199-MXJ1 ❸	
	R-C Suppressor	100-M_	24...48V AC	199-MSMA48 ❹	
	MOV Suppressor		110...280V AC	199-MSMA1 ❹	
			12...55V AC	199-MSMV1 ❹	
			56...136V AC	199-MSMV2 ❹	
	Diode Suppressor		137...277V AC	199-MSMV3 ❹	
			12...250V DC	199-MSMD1 ❹	
 Cat. No. 199-FSMA1 Cat. No. 599-K04	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	
			6...300V DC Diode	199-FSMZ-1	
		All A38...B180	12...120V AC Varistor	599-K04	
			12...240V AC Varistor	599-KA04	
All B250...B600	12...120V AC Varistor	199-GSMA1			

❷ **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	–	–

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






Continued on next page.

Bulletin 100 Line
Accessories — Field Installed
Accessories, Continued

 <i>Cat. No. 199-SC1</i> <i>Cat. No. 199-SC2</i>	Description	Used with Cat. No.	Type	Cat. No.	*
	Terminal Lug Kit	100-B110	3 Lugs per kit	199-LE1	
		100-B180, 100W-B180_		199-LF1	
		100-B250, -B300, 100W-B300_		199-LG1	
		100-B400		199-LH1	
		100-B600, 100W-B600_		199-LJ1	
	Terminal Cover Kit	100-B110	Provides IP20 Finger Protection (1 Pair Per Kit)	199-TCE1	
		100-B180		199-TCF1	
		100-B250, B300		199-TCG1	
		100-B400		193-TCH1	
		100-B600		193-TCJ1	
	DIN Rail (1 Meter)	100-A09...A45 ❶	35 x 7.5 mm	199-DR1 ❷	
	Power Wiring Kit	100-A09, A12	Provides Interconnecting Power Wires for 3 ∅ Squirrel Cage Reversing Motors	199-PWA1	
		100-A18, A24		199-PWB1	
		100-A30		199-PWB2	
		100-A38, A45		199-PWC1	
		100-A60, A75		199-PWD1 ❶	
		100-B110		199-PWE1 ❶	
		100-B180		199-PWF1 ❶	
		100-B250, B300		199-PWG1 ❶	
		100-B400		199-PWH1	
100-B600	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.	*
	“START-STOP” Push Button	109-A09 and A12	A	198-MS1	
	Flush green “I/START” Extended red “O/STOP”	109-A18 and A24	A	198-MS2	
	“START-STOP” Push Button	All	B & D	198-MS3 ❶	
	“ON-OFF” Push Button	109-A09 and A12	A	198-MS4	
	Flush green “ON” Extended red “OFF”	109-A18 and A24	A	198-MS5	
	“ON-OFF” Push Button	105...133 100L-__	B & D	198-MS6 ❶	
	“FORWARD, REVERSE-STOP” Push Buttons	All	B & D	198-MS7 ❶	
	“HIGH-LOW, STOP” Push Buttons	All	B & D	198-MS8 ❶	
	“FAST-SLOW-STOP” Push Buttons	All		198-MS9 ❶	
	External “RESET” Button (for Bimetallic and SMP Overload Relays) Flush gray “R/RESET”	109-A09... A24	A	198-MR1	
	External “RESET” Button (for Bimetallic and SMP Overload Relays) Flush gray “R/RESET”	All	B & D	198-MR3	
	“HAND-OFF-AUTO” Selector Switch 3 Position Maintained Includes Legend Plate	105...133 100L-__	B & D	198-MT1 ❶	
	“FORWARD-OFF-REVERSE” Selector Switch 3 Position Maintained	All	B & D	198-MT2 ❶	
	“OFF-ON” Selector Switch 2 Position Maintained	105...133 100L-__	B & D	198-MT3	

❶ Requires mounting bracket Cat. No. 198-BR1 when using enclosure style “B”.

Continued on next page.



Bulletin 100 Line
Accessories — Field Installed
 Accessories, Continued

	Description		For Use With Cat. No.	For Enclosure Style	Cat. No.	*
	Red "ON" Pilot Light Resistor Type	120V	A09-A24	A	198-PL11R	
		240V		A	198-PL12R	
	Red "ON" Pilot Light Transformer Type ❶	120V	105...133 100L-__	B & D	198-PL21R ❷	
		208V			198-PL25R ❷	
		240V			198-PL22R ❷	
		480V			198-PL23R ❷	
		600V			198-PL24R ❷	
	Dual "ON" Pilot Light Forward — Red Reverse — White ❶	120V	105 106	D	198-PL21RW	
		240V			198-PL22RW	
		480V			198-PL23RW	
	Pilot Device Mounting Bracket (required when mounting pilot devices in style "B" enclosures)		105...133 100L-__	B	198-BR1	
	Control Circuit Transformer With Top Mounted Fuse Block		All	B & D	1497-__ P	
	Control Circuit Fuse Block For Class CC Rejection Type Fuses (Fuses Not Included)		105...133 100L-__	B & D	1491-R162	
	Grounding Bushing Adapts to 1/2" N.P.T., PG 16.5 & BS20 mm threads		109 A09-A24	A	198-GR1	
	Terminal Shorting Bar Provides jumper between ground and solid neutral terminals.		109 A09-A24	A	198-GR2	
	Single Pole N.O. Auxiliary Contact for Disconnect Switch		106, 112	D	195-GA10 ❸	

❶ Does not include Legend Plate. See page 11-299 for Bulletin 800E Legend Plate. Legend Plates for use on D enclosures only.


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

❸ An auxiliary contact adaptor, **Cat. No. 194R-AA**, is required when installing auxiliary contact, **Cat. No. 195-GA10**.

	Description	For Use With Cat. No.	For Enclosure Style	Cat. No.	*		
				106,112-A09...A24	D	194R-FCA2	
				106,112-A30...A45		194R-FCJ60	
				106,112-A60...A75		194R-FCC1 ①	
				106,112...B110		194R-FCD1 ①	
				106,112...A180		194R-FCE1 ①	
106,112-B180...B300	194R-FCF1 ①						
	Closing Button For 22.5mm Round Panel Hole	All	B & D	198-N1			

① 3 required per disconnect switch.

Bulletin 100-M Miniature Contactors Labelling Material

	Description		Pkg. Qty.	Cat. No.	*
	Connectors	Double Spade	50	199-SC10	
		Single Spade	50	199-SC11	
	Neutral Link	10mm	1	199-NL1	
		16mm	1	199-NL2	
	Labels	Adhesive Paper, 105/sheet	10	199-ID1	
	Marking Tags	160 per sheet	10	199-ID2	
	Cover	Transparent/ Tag	100	199-ID3	
Tag Carrier	For Clip-on Tags	100	199-ID4		

Clip-On Marking Tag Strip (10 per Strip)

Tag Marking	Pkg. Qty.	Cat. No.	*	Tag Marking	Pkg. Qty.	Cat. No.	*	Tag Marking	Pkg. Qty.	Cat. No.	*
1...10	25	199-ID5		1	25	199-ID25		G	25	199-ID45	
11...20	25	199-ID6		2	25	199-ID26		H	25	199-ID46	
21...30	25	199-ID7		3	25	199-ID27		I	25	199-ID47	
31...40	25	199-ID8		4	25	199-ID28		J	25	199-ID48	
41...50	25	199-ID9		5	25	199-ID29		K	25	199-ID49	
51...60	25	199-ID10		6	25	199-ID30		L	25	199-ID50	
61...70	25	199-ID11		7	25	199-ID31		M	25	199-ID51	
71...80	25	199-ID12		8	25	199-ID32		N	25	199-ID52	
81...90	25	199-ID13		9	25	199-ID33		O	25	199-ID53	
91...100	25	199-ID14		9	25	199-ID34		P	25	199-ID54	
101...110	25	199-ID15		Unmarked	25	199-ID35		Q	25	199-ID55	
111...120	25	199-ID16		0...9	25	199-ID36		R	25	199-ID56	
121...130	25	199-ID17		+	25	199-ID37		S	25	199-ID57	
131...140	25	199-ID18		-	25	199-ID38		T	25	199-ID58	
141...150	25	199-ID19		A	25	199-ID39		U	25	199-ID59	
151...160	25	199-ID20		B	25	199-ID40		V	25	199-ID60	
161...170	25	199-ID21		C	25	199-ID41		W	25	199-ID61	
171...180	25	199-ID22		D	25	199-ID42		X	25	199-ID62	
181...190	25	199-ID23		E	25	199-ID43		Y	25	199-ID63	
191...200	25	199-ID24		F	25	199-ID44		Z	25	199-ID64	