

NEMA Pump Control Panels

Disconnect and Circuit Breaker Type



Bulletin 1232X – Bulletin 1233X

- Type 3R Enclosure with Extra Panel Space
- Factory-Installed Disconnect Switch or Circuit Breaker is Available
- Eutectic Alloy Overload Relay
 - Class 10, 20 or 30
- Solid-State Overload Relay
 - Class 10, 15, 20 and 30
- Service Entrance Rated

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Description

Bulletin 1232X (with fusible disconnect switch) and Bulletin 1233X (with circuit breaker) pump control panels are specifically designed for irrigation and similar outdoor pumping applications.

The pump control panel includes a starter with eutectic alloy or Smart Motor Protection (SMP) Solid-State Overload Relay with the reset button on the door, either a fusible disconnect switch or a circuit breaker, a HAND-OFF-AUTO selector switch, and a START button.

Conformity to Standards:

UL 508
C22.2

Approvals:

UL Listed (E 3125)
CSA Certified (LR 1234)

Your order must include:

- Cat. No. of the pump control panel.
- If required, Cat. No. of any accessories.

Fusible Disconnect Type with Class H Fuse Clips

Heater Elements — Starters with eutectic alloy overload relays require 3 heater elements. See page 1-201 for heater element selection tables.

3Ø ● 600V AC Maximum ● 60 Hz ● With 3-Pole Overload Protection								
NEMA Size	Continuous Ampere Rating (A)	Maximum Horsepower Rating Full Load Current Must Not Exceed "Continuous Ampere Rating"				Line Voltage (V)	Fuse Clip Rating Amperes (A) Fuses not included. Select on basis of National Electrical Code.	Type 3R Rainproof with Extra Panel Space
		Motor Voltage						
		200V	230V	50 Hz 380...415V	460...575V			
1	27	7-1/2	7-1/2	—	—	208...240	30 ②	1232X-BN③-④-24
		—	—	10	10	480...600	30 ②	1232X-BN③-④-24
		7-1/2	7-1/2	—	—	208...240	60 ②	1232X-BN③-④-25
		—	—	10	10	480...600	60 ②	1232X-BN③-④-25
2	45	10	15	—	—	208...240	60 ②	1232X-CN③-④-25
		—	—	25	25	480...600	60 ②	1232X-CN③-④-25
		10	15	—	—	208...240	100 ②	1232X-CN③-④-26
		—	—	25	25	480...600	100 ②	1232X-CN③-④-26
3	90	25	30	—	—	208...240	100 ②	1232X-DN③-④-26
		—	—	50	50	480...600	100 ②	1232X-DN③-④-26
		25	30	—	—	208...240	200 ②	1232X-DN③-④-27
		—	—	50	50	480...600	200 ②	1232X-DN③-④-27
4	135	40	50	—	—	208...240	200 ②	1232X-EN③-④-27
		—	—	75	100	480...600	200 ②	1232X-EN③-④-27
		40	50	—	—	208...240	400 ②	1232X-EN③-④-28
		—	—	75	100	480...600	400 ②	1232X-EN③-④-28
5	270	75	100	—	—	208...240	400 ②	1232X-FN③-④-28
		—	—	150	200	480...600	400 ②	1232X-FN③-④-28

⊗ 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. 1232X-BN③-④-24** becomes **Cat. No. 1232X-BNA-④-24**. For other voltages, consult your local Allen-Bradley Sales Office.

Voltage ⑥		208V	230...240V	460...480V	575...600V
Common Control	60 Hz	H	A	B	C
Transformer Control ④					
120V Separate Control (without transformer)		AD	AD	CD	CD

⊗ Overload Relay Code

Use to order solid-state overload relay. Do not use when ordering eutectic alloy overload relay. The Cat. No. as listed is incomplete. Select an overload relay code from page 1-168 to complete the Cat. No. Example: **Cat. No. 1232X-BNA-④-24** becomes **Cat. No. 1232X-BNA-A2D-24**.

- ① Class R fuse clips can be supplied as a factory option in place of Class H clips. To order Class R fuse clips, add an "R" after the Cat. No. Example: **Cat. No. 1232X-BN③-④-24** becomes **Cat. No. 1232X-BN③-④-24R**. Class H fuse clips will accept Class R fuses. However, only Class R fuse clips are the rejection type which limit their use to Class R fuses. To order Class J fuse clips, add a "J" after the Cat. No. Example: **Cat. No. 1232X-BN③-④-24** becomes **Cat. No. 1232X-BN③-④-24J**. To order HRC Form II fuse clips, add the letter "E" to the Cat. No. Example: **Cat. No. 1232X-BN③-④-24E**.
- ② Some applications may require time-delay fuses when this size fuse clip is used.
- ③ Starters are suitable for use on 50 Hz, consult your local Allen-Bradley Sales Office.
- ④ When selecting a factory-installed control circuit transformer (see Modifications page 1-123), 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. 1232X-BNB-6P-24** will have a transformer with a 480V primary/120V secondary voltage 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. 1232X-BNB-6P-24** will have a transformer with a 480V primary/24V secondary and a 24V starter coil.

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Product Selection, Continued

Circuit Breaker Type

Heater Elements — Starters with eutectic alloy overload relays require 3 heater elements. See page 1-201 for heater element selection tables.

3Ø ● 600V AC Maximum ● 60 Hz ● With 3-Pole Overload Protection

NEMA Size	Continuous Ampere Rating (A)	Maximum Horsepower Rating Full Load Current Must Not Exceed "Continuous Ampere Rating"				Type 3R Rainproof with Extra Panel Space Cat. No.
		Motor Voltage				
		200V	230V	460V	575V	
1	27	0...1/3	0...1/3	—	—	1233X-BN⊗-32
		1/2...1	1/2...1	0...1	0...1	1233X-BN⊗-35
		1-1/2...3	1-1/2...3	1-1/2...3	1-1/2...3	1233X-BN⊗-38
		5	—	—	—	1233X-BN⊗-39
		7-1/2	5...7-1/2	5...7-1/2	5...7-1/2	1233X-BN⊗-40
		—	—	10	10	1233X-BN⊗-41
2	45	10	10	—	—	1233X-CN⊗-41
		—	15	15	15	1233X-CN⊗-42
		—	—	20...25	20...25	1233X-CN⊗-44
3	90	15...25	25	—	—	1233X-DN⊗-44
		—	30	—	30	1233X-DN⊗-45
		—	—	30...50	40...50	1233X-DN⊗-47
4	135	30	—	—	—	1233X-EN⊗-45
		40	40	—	—	1233X-EN⊗-46
		—	50	—	—	1233X-EN⊗-47
		—	—	—	60	1233X-EN⊗-48
		—	—	60...75	—	1233X-EN⊗-49
		—	—	100	75...100	1233X-EN⊗-50
5	270	50...60	—	—	—	1233X-FN⊗-48
		75	60...75	—	—	1233X-FN⊗-49
		—	100	—	—	1233X-FN⊗-50
		—	—	—	125	1233X-FN⊗-51
		—	—	125...150	—	1233X-FN⊗-52
		—	—	200	150...200	1233X-FN⊗-54

⊗ 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. 1233X-BN⊗-35** becomes **Cat. No. 1233X-BNB-35**. For other voltages, consult your local Allen-Bradley Sales Office.

Voltage ①		208V	230...240V	460...480V	575...600V
Common Control	60 Hz	H	A	B	C
Transformer Control ②		HD	AD	BD	CD
120V Separate Control (without transformer)					

⊕ Overload Relay Code

Use to order solid-state overload relay. Do not use when ordering eutectic alloy overload relay. The Cat. No. as listed is incomplete. Select an overload relay code from page 1-168 to complete the Cat. No. Example: **Cat. No. 1233X-BNB-35** becomes **Cat. No. 1233X-BNB-A2D-35**.

- ① Starters are suitable for use on 50 Hz, consult your local Allen-Bradley Sales Office. For 380V...415V, 50 Hz motor voltage, order entry must specify actual horsepower.
- ② When selecting a factory-installed control circuit transformer (see Modifications page 1-123), 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. 1233X-BNB-6P-35** will have a transformer with a 480V primary/120V secondary voltage 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. 1233X-BNB-6P-35** will have a transformer with a 480V primary/24V secondary and a 24V starter coil.

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