

Type PEB Power electronic brakes



Softstarters Power electronic brakes Type PEB



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Description

Electronic braking stops the load by injecting a controlled amount of DC current into a three phase AC motor. The Power Electronic Brake (PEB) Series features full-wave DC braking which can be adjusted to stop your load quickly, repeatedly and reliably... even if load conditions change.

Unlike other brakes that only provide voltage control, the PEB Series is a current regulated brake. It automatically adjusts for resistance changes in the motor windings due to any input voltage fluctuations. What does this mean? Repeatable, reliable operation every time you stop your motor.

An exceptionally accurate method of micro-processor controlled sensing determines when

the motor shaft has come to a stop. Braking current is removed when the motor stops, eliminating excess braking current which means longer motor life.

Built-in jogging circuitry allows you to select the time you need for machine setup and positioning without applying DC current to the motor windings. DC current is only applied when system setup is complete... no excess current, no excess heating, no premature motor failure.

The PEB Series has a built-in feature to control a mechanical holding brake. Any fault indication automatically enables the mechanical brake for fail-safe operation.

The PEB Series has been designed and tested to meet the most stringent industry standards: UL & cUL.

UL File # E169883

Power electronic brakes

Open



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Max amps ①	208V			240V			480V			600V			List price
	Horsepower		Catalog number	Horsepower		Catalog number	Horsepower		Catalog number	Horsepower		Catalog number	
	Std. duty	Hvy. duty		Std. duty	Hvy. duty		Std. duty	Hvy. duty		Std. duty	Hvy. duty		
10	3	1	PEB-010-24	3	1	PEB-010-24	7.5	3	PEB-010-48	10	5	PEB-010-60	\$ 755
24	7.5	3	PEB-024-24	10	5	PEB-024-24	20	10	PEB-024-48	25	15	PEB-024-60	1070
50	15	7.5	PEB-050-24	20	10	PEB-050-24	40	25	PEB-050-48	50	30	PEB-050-60	1450
100	30	20	PEB-100-24	40	15	PEB-100-24	75	50	PEB-100-48	100	60	PEB-100-60	2250
200	75	40	PEB-200-24	75	50	PEB-200-24	150	100	PEB-200-48	200	125	PEB-200-60	3900
300	100	60	PEB-300-24	125	75	PEB-300-24	250	150	PEB-300-48	300	200	PEB-300-60	4300
400	150	75	PEB-400-24	150	100	PEB-400-24	350	200	PEB-400-48	400	250	PEB-400-60	6500
550	250	125	PEB-550-24	200	150	PEB-550-24	500	300	PEB-550-48	600	350	PEB-550-60	8700
800	350	200	PEB-800-24	350	200	PEB-800-24	700	450	PEB-800-48	900	500	PEB-800-60	10,250
1000	400	250	PEB-1000-24	400	300	PEB-1000-24	900	500	PEB-1000-48	1000	600	PEB-1000-60	13,000

NOTE: If duty cycle is not known, it is recommended to use the heavy duty brake since braking current can be adjusted down to meet actual load requirements.

① Never exceed the motor FLA without checking the motor manufacturers data with regards to application duty cycle.

Power electronic brakes Enclosed, NEMA 1

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Maximum Amps FLA	Maximum motor HP ratings								NEMA 1, 480V Catalog number	NEMA 1, 600V Catalog number	List price
	208V		240V		480V		600V				
	Standard Duty	Heavy Duty	Standard Duty	Heavy Duty	Standard Duty	Heavy Duty	Standard Duty	Heavy Duty			
10	3	1	3	1	7.5	3	10	5	PEB-010-48-1	PEB-010-60-1	\$ 805
24	7.5	3	10	5	20	10	25	15	PEB-024-48-1	PEB-024-60-1	1120
50	15	7.5	20	10	40	25	50	30	PEB-050-48-1	PEB-050-60-1	1650
100	30	20	40	15	75	50	100	60	PEB-100-48-1	PEB-100-60-1	2450
200	75	40	75	50	150	100	200	125	PEB-200-48-1	PEB-200-60-1	4320
300	100	60	125	75	250	150	300	200	PEB-300-48-1	PEB-300-60-1	4800
400	150	75	150	100	350	200	400	250	PEB-400-48-1	PEB-400-60-1	7000
550	250	125	200	150	500	300	600	350	PEB-550-48-1	PEB-550-60-1	9200
800	350	200	350	200	700	450	900	500	PEB-800-48-1	PEB-800-60-1	10,750
1000	400	250	400	300	900	500	1000	600	PEB-1000-48-1	PEB-1000-60-1	13,500

NOTE: See below for additional enclosure styles and price adders.

Options ①

Model number	NEMA 12	NEMA 3R	NEMA 4	NEMA 4X
PEB-010	\$ 100	\$ 100	\$ 150	\$ 450
PEB-024	100	100	150	450
PEB-050	100	100	150	450
PEB-100	100	100	150	450
PEB-200	150	150	200	600
PEB-300	300	300	350	1050
PEB-400	300	300	350	1050
PEB-550	300	300	350	1050
PEB-800	300	300	350	1050
PEB-1000	300	300	350	1050

① Add to list price of NEMA 1 enclosed products and change part number appropriately.