

PENTEK® XE-6/XE-8 6" and 8" Submersible Motors

Encapsulated Design



Delivers outstanding performance through lower amp draw and higher efficiencies, which yields lower operating costs. Combined with many durable, innovative, and advanced design features, the Pentek XE-6 and XE-8 are the perfect solution for your submersible motor needs.

APPLICATIONS

High-thrust water well applications.

SPECIFICATIONS

Shaft: 17-4 stainless steel

Motor Casing: 304 stainless steel

Upper and Lower Bracket: Epoxy-coated cast iron – coating is TNEMEC 140, an NSF-certified coating

Upper Bracket: "dual-flange" design

Motor Lead: XLPE

Thrust Bearing: Water-lubricated, Kingsbury-type

Pressure Equalizing Diaphragm: Spring-less design



FEATURES

Exceptional insulation rating (Class F) and temperature rating (95 F / 35 C)

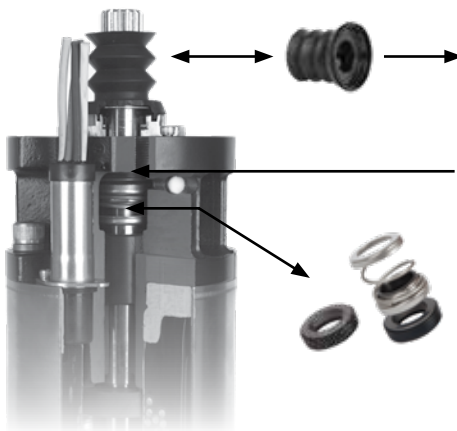
IP68 protection rating

VFD-compatible

Vertical or Horizontal operation

EXCLUSIVE ADVANCED PROTECTION SYSTEM

Provides **THREE** layers of defense against sand and debris intrusion



1) External sand slinger boot

- Features a labyrinth seal design to better capture any sand or debris, keeping it away from the shaft

2) Lip seal

- Located below the sand slinger, providing an extra layer of protection

3) Mechanical seal – silicon carbide

- Excellent abrasion, wear, and corrosion resistance
- Resists deflection in high-pressure, high-heat, and high-speed conditions
- High thermal conductivity (heat dissipation)
- Provides superior protection against sand intrusion

Encapsulated Design

Motor Performance and Dimensional Data

	XE-6	XE-8
Nominal Diameter	6" / 152.4mm	8" / 203.2mm
Effective Diameter	5.43" / 138mm	7.70" / 195.6mm
Shaft Extension	2.87" / 73mm	4.00" / 101.6mm
Insulation	Class F	
Hz/Pole/Speed	60Hz / 2 Pole / 3450 RPM	

					FULL LOAD				SERVICE FACTOR 1.15				LOCKED ROTOR AMPS	THRUST LOAD (LBS)	KVA CODE	LENGTH (includes shaft ext)		WEIGHT		CRATE						WEIGHT MOOR +CRATE		
																				L		W		H				
					PHASE	MODEL #	HP	KW	VOLTS	AMPS	WATTS	EFF %	PF %	AMPS	WATTS	EFF %	PF %	IN	MM	LBS	KG	IN	MM	IN	MM	IN	MM	LBS
6" Motors	1	P60A0050A2	5	3.70	230	22.8	4975	74.5	97.0	26.0	5625	75.5	97.0	104	3600	E	25.6	650	104	47.2	32	813	10	254	13.5	343	134	60.8
		P60A0075A2	7.5	5.60		35.2	7300	77.0	92.0	40.0	8300	77.5	92.5	162		F	28.1	714	117	53.1							151	68.5
		P60A0100A2	10	7.50		45.7	9700	76.5	94.0	52.4	11175	76.5	94.0	202		E	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3
		P60A0150A2	15	11.20		62.4	13725	81.5	98.0	72.5	15825	81.5	98.0	296		E	32.8	833	144	65.3	178						80.7	
	P60A0050A8	5	3.7	200	16.1	4830	77.5	86.5	18.0	5490	78.5	88.0	96	H		23.0	583	87	39.5	32	813	10	254	13.5	343	115	52.2	
	P60A0075A8	7.5	5.5		23.3	7000	80.0	87.5	26.8	8070	80.0	88.5	140	H		24.3	618	97	44.0							127	57.6	
	P60A0100A8	10	7.5		31.5	9090	82.5	86.5	35.0	10400	82.5	88.0	187	H		25.6	650	104	47.2							134	60.8	
	P60A0150A8	15	11		44.9	13440	83.5	87.0	50.8	15460	83.5	88.5	268	H		28.1	713	117	53.1							151	68.5	
	P60A0200A8	20	15		59.0	17850	83.0	87.5	67.1	20630	83.0	89.0	354	H		30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3	
	P60A0250A8	25	19		76.8	22110	84.0	85.5	86.5	25520	84.0	87.5	445	H		32.8	834	144	65.3	180						81.6		
	P60A0300A8	30	22		91.7	26420	84.5	86.0	103.3	30450	84.5	87.5	530	H		35.6	904	165	74.8	207						93.9		
	P60A0050A3	5	3.7		230	14.4	4830	77.5	86.5	16.1	5490	78.5	88.0	87		H	23.0	583	87	39.5						32	813	10
	P60A0075A3	7.5	5.5	21.5		7000	80.0	87.5	24.1	8070	80.0	88.5	127	H		24.3	618	97	44.0	127	57.6							
	P60A0100A3	10	7.5	28.0		9090	82.5	86.5	31.5	10400	82.5	88.0	164	H		25.6	650	104	47.2	134	60.8							
	P60A0150A3	15	11	40.9		13440	83.5	87.0	46.3	15460	83.5	88.5	237	H		28.1	713	117	53.1	151	68.5							
	P60A0200A3	20	15	53.2		17850	83.0	87.5	60.8	20630	83.0	89.0	312	G		30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3	
	P60A0250A3	25	19	66.7		22110	84.0	85.5	76.0	25520	84.0	87.5	387	G		32.8	834	144	65.3	180						81.6		
	P60A0300A3	30	22	79.3		26420	84.5	86.0	90.2	30450	84.5	87.5	458	G		35.6	904	165	74.8	207						93.9		
	P60A0050A4	5	3.7	460		7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44		H	23.0	583	87	39.5						32	813	10
	P60A0075A4	7.5	5.5		10.0	7000	80.0	87.5	11.3	8070	80.0	88.5	62	H		24.3	618	97	44.0	127	57.6							
	P60A0100A4	10	7.5		13.1	9090	82.5	86.5	14.8	10400	82.5	88.0	82	H		25.6	650	104	47.2	134	60.8							
	P60A0150A4	15	11		20.4	13440	83.5	87.0	23.0	15460	83.5	88.5	117	G		28.1	713	117	53.1	151	68.5							
	P60A0200A4	20	15		25.8	17850	83.0	87.5	29.4	20630	83.0	89.0	151	G		30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3	
	P60A0250A4	25	19		32.8	22110	84.0	85.5	36.8	25520	84.0	87.5	187	G		32.8	834	144	65.3	180						81.6		
	P60A0300A4	30	22		39.3	26420	84.5	86.0	44.6	30450	84.5	87.5	226	G		35.6	904	165	74.8	207						93.9		
	P60A0400A4	40	30		51.3	35030	85.0	87.5	58.6	40500	85.0	89.0	302	6750		G	39.3	999	187	84.8						64	1626	10
	P60A0500A4	50	37	65.8	44350	84.0	87.0	75.1	51200	84.0	88.0	385	G			54.1	1374	265	120.2	319	144.7							
	P60A0050A5	5	3.7	575	5.8	4830	77.5	86.5	6.5	5490	78.5	88.0	35	3600		H	23.0	584	87	39.5	32	813	10	254	13.5	343	115	52.2
P60A0075A5	7.5	5.5	8.2		7000	80.0	87.5	9.3	8070	80.0	88.5	51	H		24.3	617	97	44.0	127	57.6								
P60A0100A5	10	7.5	10.5		9090	82.5	86.5	11.8	10400	82.5	88.0	61	G		25.6	650	104	47.2	134	60.8								
P60A0150A5	15	11	15.0		13440	83.5	87.0	17.1	15460	83.5	88.5	88	G		28.1	714	117	53.1	151	68.5								
P60A0200A5	20	15	20.9		17850	83.0	87.5	23.7	20630	83.0	89.0	122	6750		G	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3	
P60A0250A5	25	19	26.2		22110	84.0	85.5	29.7	25520	84.0	87.5	153			G	32.8	833	144	65.3	180						81.6		
P60A0300A5	30	22	31.0		26420	84.5	86.0	35.0	30450	84.5	87.5	179			G	35.6	904	165	74.8	207						93.9		
P60A0400A5	40	30	41.5		35030	85.0	87.5	47.3	40500	85.0	89.0	247			G	39.3	998	187	84.8	64						1626	10	254
P86A0500A4	50	37	65	43675	85.5	87.0	74	49950	86.0	88.0	540	1000	K	38.9	987	330	150	60	1524	12	304.8	15	381	382	174			
P86A0600A4	60	45	78	52225	85.5	88.0	89	59825	86.0	88.5	645		K	41.6	1057	371	168							423	192			
P80A0500A4	50	37	65	43675	85.5	87.0	74	49950	86.0	88.0	540		K	38.9	987	344	156							396	180			
P80A0600A4	60	45	78	52225	85.5	88.0	89	59825	86.0	88.5	645		K	41.6	1057	385	175							437	199			
P80A0750A4	75	56	95	64850	86.5	88.5	109	74650	86.5	89.0	803		K	46.6	1184	444	201							496	225			
P80A1000A4	100	75	128	85075	87.5	87.5	146	98350	87.5	88.5	1080		K	58.6	1488	525	238							609	277			
P80A1250A4	125	93	165	110125	84.5	87.0	188	126825	85.0	87.5	1410		K	66.9	1699	819	371							903	410			
P80A1500A4	150	112	203	133025	84.5	85.5	228	151100	85.0	86.5	1643		K	75.1	1908	932	423							1016	462			
P80A0500A5	50	37	52	43675	85.5	87.0	60	49950	86.0	88.0	439		6750	K	38.9	987	344	156	60	1524	96	2438.4	1016	462	396	180		
P80A0600A5	60	45	61	52225	85.5	88.0	70	59825	86.0	88.5	518			K	41.6	1057	385	175							437	199		
P80A0750A5	75	56	76	64850	86.5	88.5	88	74650	86.5	89.0	645			K	46.6	1184	444	201							496	225		
P80A1000A5	100	75	100	85075	87.5	87.5	115	98350	87.5	88.5	855			K	58.6	1488	525	238							609	277		
P80A1250A5	125	93	129	110125	84.5	87.0	148	126825	85.0	87.5	1133			L	66.9	1699	819	371	903	410								
P80A1500A5	150	112	159	133025	84.5	85.5	178	151100	85.0	86.5	1320			K	75.1	1908	932	423	1016	462								

PENTEK® XE-6 Controls

For Pentek XE-6 Single Phase Motors



14 ga steel enclosure with polyester powder-coated paint

- Heavy-duty construction, high durability and corrosion-resistance

Continuous hinge door

- Easy access - no need to remove during installation or service
- Opens past 180° for easy access

Integral mounting flange

- Easy to wall-mount while maintaining NEMA 4 rating

Multiple knockout (embossed) options

- 2 - dual 1/2" - 3/4"
- 2 - dual 3/4" - 1"
- 2 - dual 1-1/4" - 1-1/2"

Seamless, foamed-in-place door gasket

- Excellent protection against intrusion from dirt, dust, rain, sleet, snow or wind-directed water

Bonding provision on door

- When required by code

NEMA 4 rated enclosure (compare to competition at only NEMA 3)

IP66 Ingress Protection rating

Opens with two quarter-turn latches

- No risk of lost door fasteners, no tools needed

Locking Hasp

- Added security

Size - 16" x 14"

- Generous size allows for more room to work inside the box

- Easier conduit attachment, wire pulling, and wire connections

Terminals accept up to 4AWG wire

Magnetic line contactors

- Included standard on each box

Removable back panel

- All electric components mounted on panel
- Easy installation and servicing, when downtime is critical

Pentek Single Phase Control Boxes For Pentek XE-6 Single Phase Motors

60Hz • 2 POLE

ORDERING INFORMATION

					CONTROL BOX DIMENSIONS							
					HEIGHT		WIDTH		DEPTH			
PHASE	MODEL #	HP	KW	VOLTS	IN	MM	IN	MM	IN	MM	LBS	KG
1	PTKX-5SCB	5	3.70	230	14.0	356	12.0	304.8	6.0	152.4	30	13.6
	PTKX-7SCB	7.5	5.60								32	14.5
	PTKX-10SCB	10	7.50								33.2	15.1
	PTKX-15SCB	15	11.20									

FAST SHIPPING

Available same day from the following Pentair locations:

Fresno, CA; Grand Island, NE; Delavan, WI; Jacksonville, FL; Lubbock, TX

Motors not stocked at your nearest facility will be drop shipped from another stocking location

PRE-PAID FREIGHT

Pre-paid freight to distributor location on one or more motors.

If motor order is combined with other Pentair products, standard pre-paid freight terms apply.

WARRANTY

12 months from Date of Installation / 24 months from Date of Manufacture

For members of the Pro Dealer program, warranty is 24 months from Date of Installation / 36 months from Date of Manufacture

Note:

Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.



US: 293 WRIGHT STREET, DELAVAN, WI 53115 WWW.BERKELEYPUMPS.COM PH: 888-782-7483 ORDERS FAX: 800-426-9446
CANADA: 490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO N1T 0A5 PH: 800-363-7867 ORDERS FAX: 888-606-5484
Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.