

50Hz



GENERAL CATALOGUE

Edition 2022

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Where there's water there's Pentax



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PENTAX s.p.a.



PTR12-PTR14

Deepwell Motors



12"-14" submersible motors rewindable in water bath. Power from 185 kW up to 400 kW. Available with mechanical seal. Standard PE2+PA winding, for temperatures up to 30°C. Made of Cast Iron /AISI 304, available in AISI 316.

Construction features

Upper and bottom support	GG25 or stainless steel AISI 316
Stator sleeve	stainless steel AISI 316
Shaft end	stainless steel
Mechanical seal	SIC / SIC / NBR
Bearings	steel/NBR

Motor

Asynchronous 2 poles rewound in water filled	3~ 3x380-400V ± 10% - 50Hz
Cooling flow	min 0,5 m/s
Insulation class	F
Insulation	PE2 + PA
Protection degree	IP68
Available on demand	<ul style="list-style-type: none">- Full motor in AISI 316- Full motor in AISI 904- PT 100- Star/Delta starting- Cooling Sleeve



TYPE 230V/50Hz 3~	Volt V	P ₂		I _N A	I _s /I _N	P ₁ W	N min ⁻¹	EFF% %	COS φ	CABLE	
		HP	kW							Lenght m	Size mm ²
PTR12 - 220kW - 400V - T	400	300	220	424	6,1	250000	2920	88	0,85	8	3x70+1x50
PTR12 - 250kW - 400V - T	400	340	250	481	5,9	284091	2920	88	0,85	8	3x70+1x50
PTR12 - 300kW - 400V - T	400	400	300	575	6	341000	2905	88	0,87	8	3x70+1x50
PTR14 - 330kW - 380V - T	380	450	330	620	6	366667	2900	90	0,9	8	3x95+1x50
PTR14 - 367kW - 380V - T	380	500	370	693	6,4	405525	2900	90,5	0,89	8	3x95+1x50
PTR14 - 404kW - 380V - T	380	550	400	798	6,8	446409	2900	90,5	0,85	8	3x95+1x

P₂: Nominal power

V: Nominal voltage

I_N: Nominal current

I_s/I_N: Starting current / Nominal current

P₁: Absorbed power

N: Rotations per minute - Rpm

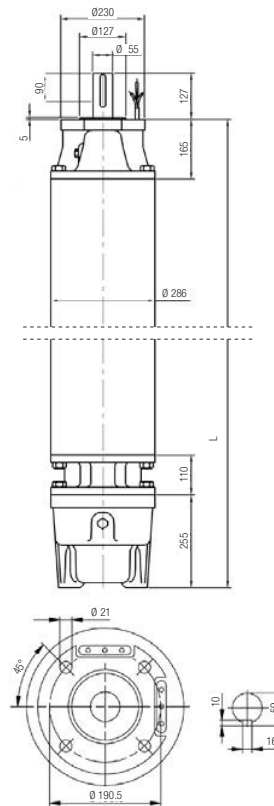
Cos φ: Power factor

EFF%: Efficiency

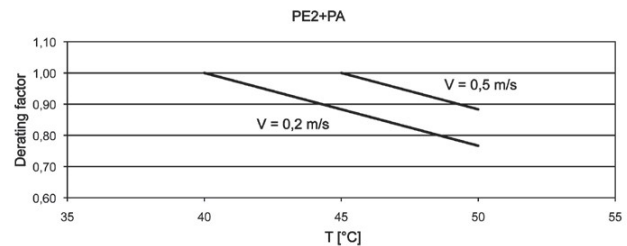
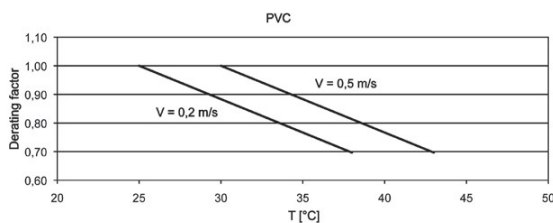
Size: Cable cross section

Lenght: Cable length

DIMENSIONS					
Motor Type	Power		Axial Thrust N	Lenght mm	Weight Kg
	HP	kW			
PTR12 - 220kW	300	220	70000	2110	700
PTR12 - 250kW	340	250		2280	775
PTR12 - 300kW	400	300		2280	775
PTR14 - 330kW	450	330		2160	906
PTR14 - 367kW	500	370		2320	1010
PTR14 - 404kW	550	400		2460	1105



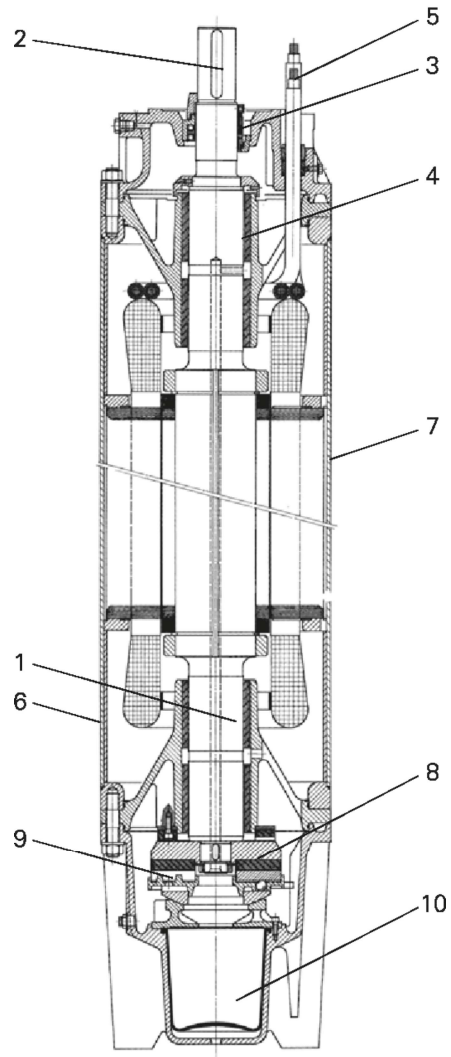
POWER DERATING VERSUS THE LIQUID TEMPERATURE



For PTR12 220 kW PE2+PA and 250 kW PE2+PA 50 Hz and for all the PTR12 60 Hz versions the maximum liquid temperature is 10 °C lower than that indicated in the graph.

For PTR12 300kW PE2+PA the maximum liquid temperature is 25°C.





N.	PARTS	STD VERSION	VERSION 316 SS	VERSION 904 SS
1	Shaft	stainless steel	stainless steel	stainless steel
2	Shaft Terminal	AISI 316 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel
3	Mechanical Seal	ceramic/carbon	SIC/SIC	SIC/SIC
4	Bushes	steel/NBR	steel/NBR	steel/NBR
5	Cable	EPDM	EPDM	EPDM
6	Structural Parts	cast iron	AISI 316 stainless steel	AISI 904 stainless steel
7	Jacket	AISI 316 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel
8	Thrust Plate	steel	steel	steel
9	Thrust Bearing	steel/NBR	steel/NBR	steel/NBR
10	Diaphragm	EPDM	EPDM	EPDM
11	Screws	AISI 304 stainless steel	AISI 316 stainless steel	AISI 904 stainless steel

