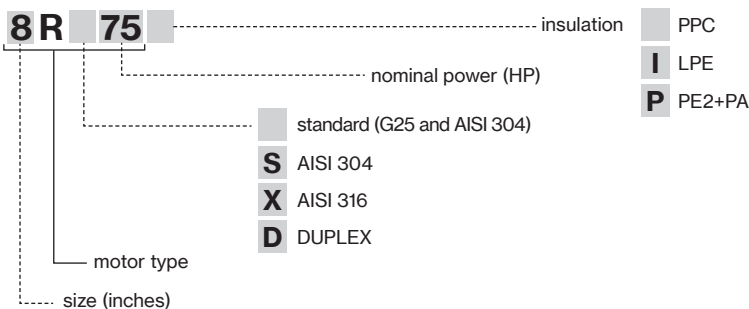


# 6R/8R/10R

6", 8", 10" rewindable submersible water-filled motors with NEMA coupling flange and shaftend. Power from 4 kW up to 185 kW. Available in PPC (standard), LPE and PE2+PA insulation class. The motor can be supplied in stainless steel AISI 304, AISI 316 or Duplex EN 1.4462.

Construction features	
<b>Upper and bottom support</b>	G25 (6R / 8R / 10R) stainless steel AISI 304 (6RS / 8RS / 10RS) stainless steel AISI 316 (6RX / 8RX / 10RX) Duplex EN 1.4462 (6RD / 8RD / 10RD)
<b>Stator sleeve</b>	stainless steel AISI 304 - (R) stainless steel AISI 304 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
<b>Shaft end</b>	stainless steel AISI 431 - (R) stainless steel AISI 431 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
<b>Seal type</b>	lip seal (standard); mechanical seal (on request)
<b>Bearings</b>	radial and axial, water lubricated
<b>Thrust bearing</b>	Michell
<b>Voltage</b>	3- 400V ± 10% - 50Hz 3- 400/690V ± 10% - 50Hz
<b>Min. cooling flow</b>	0,5 m/s
<b>Insulation class</b>	Y (max 30° C) for PPC F (max 50° C) for PE2+PA or LPE
<b>Insulation</b>	PPC (standard) PE2 + PA or LPE (on request)
<b>Protection degree</b>	IP68
<b>Max depth immersion</b>	350m
<b>Available on demand</b>	- PT 100 - Star/Delta starting - Cooling Sleeve - Cer./Carb./NBR Seal - SIC/SIC/NBR Seal

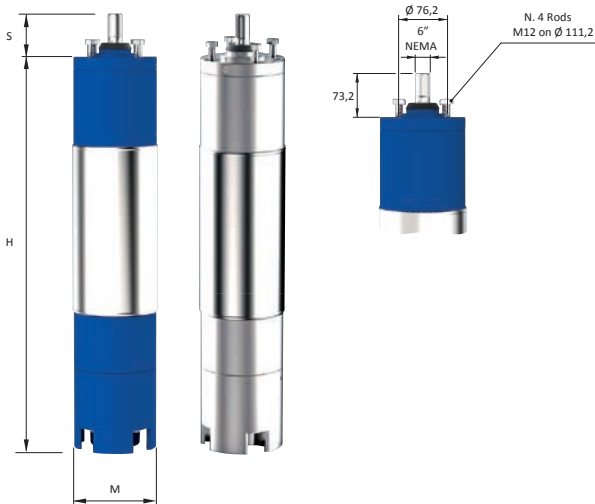


# 6R-6RS-6RX-6RD

TYPE	HP	kW	V	I <sub>N</sub>	rpm	Efficiency %			Cos φ			Starting			Axial load N	Start/ hour (max)									
						A	50%	75%	100%	50%	75%	100%	Direct	Star-delta			Statoric								
				Cs/Cn									Is / In	Is / In			Is / In								
6R7	7,5	5,5	380	12,4	2846	77,0	82,0	81,0	0,67	0,78	0,83	1,60	5,60	1,90	3,40	1600	15								
			400	12,3	2859	76,0	81,0	80,0	0,65	0,76	0,81														
			415	12,3	2880	75,0	80,0	79,0	0,63	0,74	0,79														
6R10	10	7,5	380	16,6	2843	78,0	82,5	82,0	0,68	0,78	0,84	1,80	5,70	1,90	3,40			1600	15						
			400	16,3	2861	77,0	81,5	81,0	0,66	0,76	0,82														
			415	16,3	2882	76,0	80,5	80,0	0,64	0,74	0,80														
6R12	12,5	9,2	380	20,2	2846	79,0	83,0	82,0	0,68	0,79	0,85	1,80	5,70	1,90	3,40					1600	15				
			400	19,9	2864	78,0	82,0	81,0	0,66	0,77	0,83														
			415	19,9	2886	77,0	81,0	80,0	0,64	0,75	0,81														
6R15	15	11	380	23,7	2849	80,0	84,5	83,5	0,69	0,79	0,85	1,90	5,90	2,00	3,50							1600	15		
			400	23,4	2867	79,0	83,5	82,5	0,67	0,77	0,83														
			415	23,4	2882	78,0	82,5	81,5	0,65	0,75	0,81														
6R17	17,5	13	380	27,7	2851	81,0	84,5	84,0	0,69	0,79	0,85	1,80	6,00	2,00	3,60									1600	15
			400	27,3	2870	80,0	83,5	83,0	0,67	0,77	0,83														
			415	27,3	2887	79,0	82,5	82,0	0,65	0,75	0,81														
6R20	20	15	380	32	2852	82,0	85,0	84,0	0,69	0,79	0,85	1,70	5,90	2,00	3,50	1600	15								
			400	31,5	2871	81,0	84,0	83,0	0,67	0,77	0,83														
			415	31,5	2883	80,0	83,0	82,0	0,65	0,75	0,81														
6R25	25	18,5	380	38,9	2854	82,5	85,5	85,0	0,69	0,79	0,85	1,70	5,60	1,90	3,40			2500	15						
			400	38,3	2873	81,5	84,5	84,0	0,67	0,77	0,83														
			415	38,6	2889	80,0	83,0	82,5	0,65	0,75	0,81														
6R30	30	22	380	45,8	2857	82,5	85,5	85,0	0,70	0,80	0,86	1,70	5,90	2,00	3,50					2500	15				
			400	45,1	2877	81,5	84,5	84,0	0,68	0,78	0,84														
			415	45,3	2890	80,0	83,0	82,5	0,66	0,76	0,82														
6R35	35	26	380	53,8	2867	82,5	86,0	85,5	0,71	0,81	0,86	1,70	5,70	1,90	3,40							2500	15		
			400	52,9	2878	81,5	85,0	84,5	0,69	0,79	0,84														
			415	53,2	2891	80,0	83,5	83,0	0,67	0,77	0,82														
6R40	40	30	380	62,1	2861	82,5	86,0	85,5	0,72	0,81	0,86	1,70	5,60	1,90	3,40									2500	15
			400	61,1	2880	81,5	85,0	84,5	0,70	0,79	0,84														
			415	61,4	2892	80,0	83,5	83,0	0,68	0,77	0,82														
6R50	50	37	380	77	2863	83,0	86,5	85,0	0,72	0,81	0,86	1,60	5,60	1,90	3,40	2500	15								
			400	75,8	2882	82,0	85,5	84,0	0,70	0,79	0,84														
			415	76,2	2891	80,5	84,0	82,5	0,68	0,77	0,82														

Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise)  
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	HP	kW	Cables		Cable length m	Max water temperature by winding type	
			Starting			PPC	PE2-PA / LPE
			Direct	Star Delta			
			400 V ± 5%	400 / 690 V			
6R7	7,5	5,5	4G × 4 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )	3	30 °C	50 °C
6R10	10	7,5	4G × 4 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R12	12,5	9,2	4G × 4 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R15	15	11	4G × 4 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R17	17,5	13	4G × 6 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R20	20	15	4G × 6 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R25	25	18,5	4G × 6 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R30	30	22	4G × 6 mm <sup>2</sup>	2×(4G × 4 mm <sup>2</sup> )			
6R35	35	26	4G × 10 mm <sup>2</sup>	2×(4G × 6 mm <sup>2</sup> )			
6R40	40	30	4G × 10 mm <sup>2</sup>	2×(4G × 6 mm <sup>2</sup> )			
6R50	50	37	4G × 10 mm <sup>2</sup>	2×(4G × 10 mm <sup>2</sup> )			



TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
6R7	671	73,2	145	45
6R10	701			55
6R12	751			60
6R15	811			65
6R17	841			70
6R20	931			75
6R25	991			83
6R30	1071			92
6R35	1181			100
6R40	1251			108
6R50	1341	118		

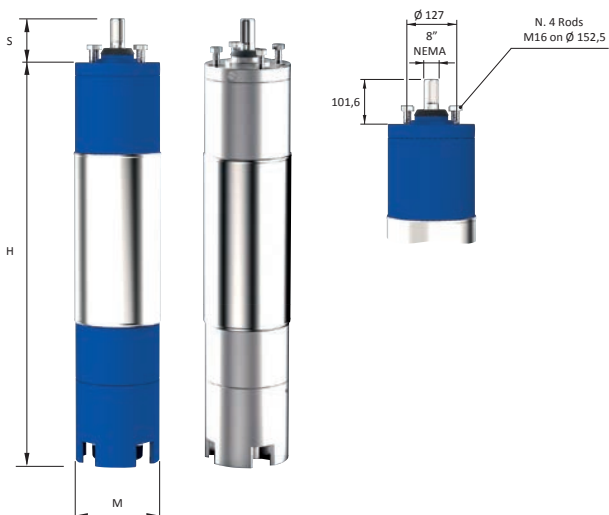


# 8R-8RS-8RX-8RD

TYPE	HP	kW	V	I <sub>N</sub>	rpm	Efficiency %			Cos φ			Starting				Axial load N	Start/ hour (max)
						A	50%	75%	100%	50%	75%	100%	Direct		Star-delta		
				Cs/Cn									Is / In	Is / In	Is / In		
8R40	40	30	380	64,4	2859	79,8	85,2	84,3	0,77	0,81	0,84	2,05	6,40	2,10	3,80	4500	10
			400	61,7	2875	80,1	85,0	84,7	0,76	0,80	0,83						
			415	60	2892	79,3	84,5	85,0	0,75	0,79	0,82						
8R50	50	37	380	75,4	2865	80,3	85,7	84,8	0,79	0,83	0,88	1,95	5,70	2,00	3,70		
			400	73	2888	80,6	85,5	85,2	0,77	0,81	0,86						
			415	71,8	2904	79,8	85,0	85,5	0,75	0,79	0,84						
8R60	60	45	380	90,2	2882	80,8	86,2	85,3	0,76	0,86	0,87	1,95	5,80	2,00	3,70		
			400	86,3	2893	81,1	86,0	85,7	0,74	0,81	0,86						
			415	84,8	2905	80,3	85,5	86,0	0,72	0,79	0,84						
8R75	75	55	380	110,2	2880	81,3	86,7	85,8	0,76	0,85	0,89	1,85	5,80	2,00	3,60		
			400	106,2	2889	81,6	86,5	86,2	0,74	0,81	0,87						
			415	105,4	2901	80,8	86,0	86,5	0,72	0,80	0,84						
8R90	90	66	380	130,7	2881	82,4	87,5	86,8	0,76	0,86	0,89	1,85	5,80	2,00	3,50		
			400	126	2892	82,6	87,4	87,2	0,74	0,82	0,87						
			415	125,1	2905	81,9	86,9	87,5	0,72	0,79	0,84						
8R100	100	75	380	148,5	2882	82,3	87,7	86,8	0,75	0,85	0,89	1,80	5,80	2,00	3,50		
			400	143,2	2893	82,6	87,5	87,2	0,73	0,81	0,87						
			415	142,1	2905	81,8	87,0	87,5	0,71	0,77	0,84						
8R125	125	92	380	183,5	2880	83,0	86,0	85,7	0,75	0,84	0,89	1,80	5,70	1,90	3,50		
			400	175,1	2891	83,5	86,5	86,3	0,74	0,83	0,88						
			415	172,7	2903	83,0	86,0	86,3	0,72	0,81	0,86						
8R150	150	110	380	218,6	2885	85,5	86,5	86,0	0,74	0,83	0,89	1,80	5,70	1,90	3,50		
			400	211	2898	86,1	87,0	86,6	0,73	0,82	0,87						
			415	212,1	2908	85,5	86,5	86,0	0,72	0,81	0,84						

Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise)  
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	HP	kW	Cables		Cable length m	Max water temperature by winding type	
			Starting			PPC	PE2-PA / LPE
			Direct	Star Delta			
			400 V ± 5%				
			400 / 690 V				
8R40	40	30	3×1×10 mm <sup>2</sup>	6×1×10 mm <sup>2</sup>	3	30 °C	50 °C
8R50	50	37	3×1×10 mm <sup>2</sup>	6×1×10 mm <sup>2</sup>			
8R60	60	45	3×1×16 mm <sup>2</sup>	6×1×10 mm <sup>2</sup>			
8R75	75	55	3×1×16 mm <sup>2</sup>	6×1×10 mm <sup>2</sup>			
8R90	90	66	3×1×25 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>			
8R100	100	75	3×1×25 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>			
8R125	125	92	3×1×25 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>			
8R150	150	110	3×1×35 mm <sup>2</sup>	6×1×25 mm <sup>2</sup>			



TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
8R40	993	101,6	194	150
8R50	1043			160
8R60	1123			178
8R75	1233			200
8R90	1302			214
8R100	1383			230
8R125	1583			270
8R150	1733			300

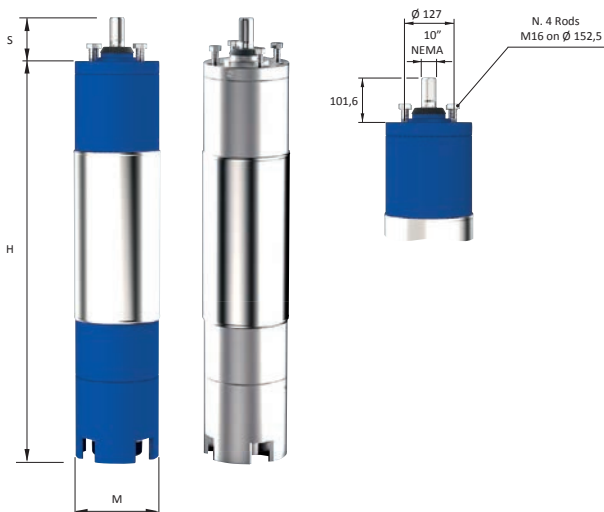


# 10R-10RS-10RX-10RD

TYPE	HP	kW	V		rpm	Efficiency %			Cos φ			Starting			Axial load N	Start/ hour (max)	
			A	In		50%	75%	100%	50%	75%	100%	Direct		Star-delta			Statoric
												Cs/Cn	Is / In				
10R100	100	75	380	154,3	2884	86,9	87,0	88,0	0,73	0,80	0,84	1,80	6,40	1,90	3,40	6000	10
			400	142,7	2896	85,9	88,0	88,3	0,72	0,84	0,86						
			415	143,9	2909	86,4	88,3	88,5	0,64	0,77	0,82						
10R125	125	92	380	188,7	2890	87,2	87,3	88,3	0,74	0,83	0,84	1,60	6,30	1,80	3,40	6000	10
			400	174,5	2904	86,2	88,3	88,6	0,71	0,83	0,86						
			415	176	2914	86,7	88,6	88,8	0,63	0,75	0,82						
10R150	150	110	380	222,2	2930	87,9	88,0	89,0	0,71	0,81	0,85	1,55	6,70	1,80	3,30	6000	10
			400	207	2937	86,9	89,0	89,3	0,73	0,84	0,86						
			415	211,3	2943	87,4	89,3	89,5	0,63	0,77	0,81						
10R175	175	130	380	265,6	2895	87,5	88,2	89,0	0,73	0,81	0,83	1,85	5,80	2,00	3,60	6000	10
			400	245,3	2915	86,5	89,3	89,4	0,71	0,83	0,85						
			415	244,6	2928	87,1	89,5	89,6	0,62	0,75	0,82						
10R200	200	150	380	299,1	2898	87,1	88,2	89,0	0,72	0,82	0,84	1,55	6,50	1,80	3,30	6000	10
			400	277,2	2917	86,1	88,5	89,1	0,71	0,81	0,86						
			415	278,1	2931	86,5	88,1	88,7	0,65	0,75	0,83						
10R225	225	165	380	337,2	2901	86,5	87,5	88,6	0,72	0,82	0,84	1,55	6,50	1,80	3,30	6000	10
			400	313,3	2920	85,4	87,2	88,5	0,71	0,81	0,86						
			415	313,9	2930	86,0	87,3	88,2	0,65	0,75	0,83						
10R250	250	185	380	370	2904	87,4	88,0	89,0	0,73	0,83	0,85	1,50	6,50	1,80	3,30	6000	10
			400	342,2	2924	86,5	88,7	89,3	0,72	0,82	0,87						
			415	340,9	2936	87,3	89,3	89,5	0,65	0,77	0,84						

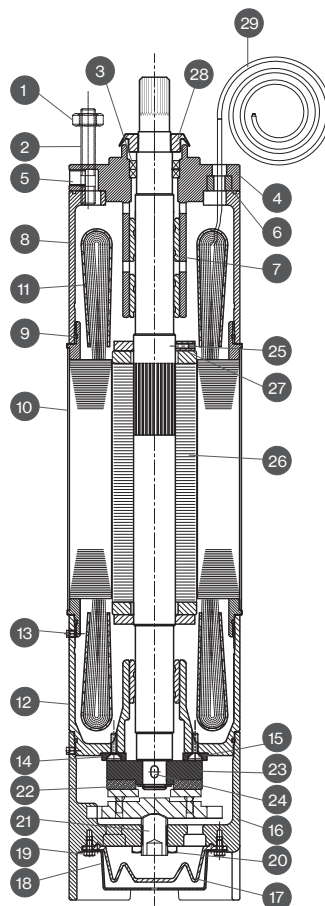
Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise)  
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	HP	kW	Cables		Cable length m	Max water temperature by winding type	
			Starting			PPC	PE2-PA / LPE
			Direct	Star Delta			
			400 V ± 5%	400 / 690 V			
10R100	100	75	3×1×25 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>	3	30 °C	50 °C
10R125	125	92	3×1×25 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>			
10R150	150	110	3×1×35 mm <sup>2</sup>	6×1×16 mm <sup>2</sup>			
10R175	175	130	3×1×35 mm <sup>2</sup>	6×1×25 mm <sup>2</sup>			
10R200	200	150	3×1×50 mm <sup>2</sup>	6×1×25 mm <sup>2</sup>			
10R225	225	165	3×1×50 mm <sup>2</sup>	6×1×35 mm <sup>2</sup>			
10R250	250	185	3×1×50 mm <sup>2</sup>	6×1×35 mm <sup>2</sup>			



TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
10R100	1284	101,6	240	270
10R125	1354			310
10R150	1504			350
10R175	1634			385
10R200	1734			415
10R225	1854			444
10R250	1984			480





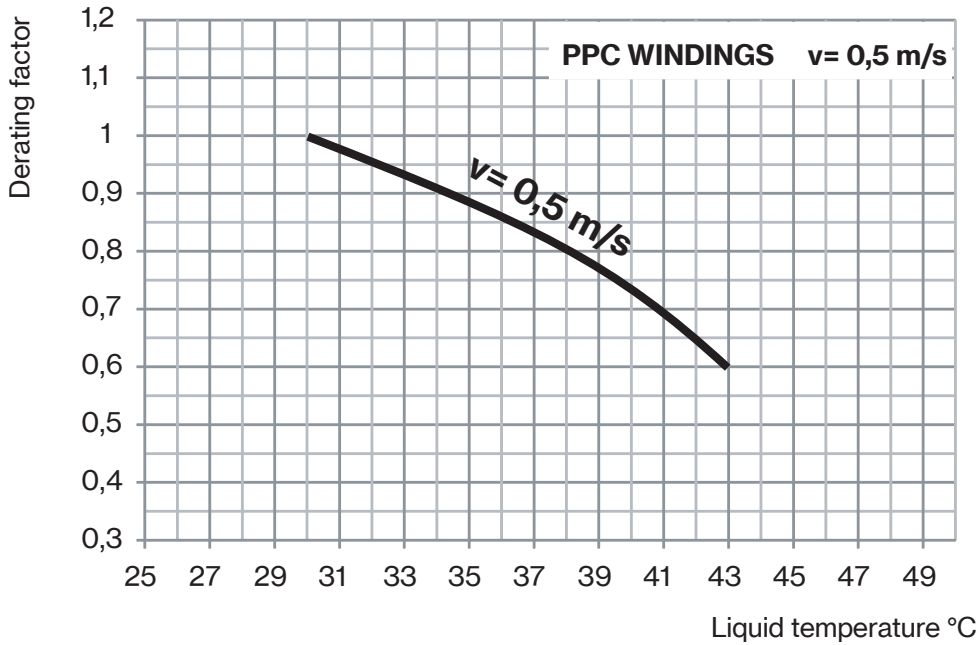
N. CODE	(*) N°	DESCRIPTION	MATERIAL STANDARD VERSION R	MATERIAL VERSION RS-RX-RD
1		<b>N.4 NUTS</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
2		<b>N.4 STUDS</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
3(*)	1	<b>N.2 SEAL RINGS</b>	NBR	NBR
4		<b>UPPER SUPPORT</b>	CAST IRON	AISI 304 / AISI 316 / DUPLEX
5		<b>N.2 GRAINS FOR LIQUID FILLING</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
6		<b>GROMMET</b>	NBR	NBR
7(*)	3	<b>N.3 BEARINGS</b>	GRAPHITE	GRAPHITE
8		<b>MOTOR CASING</b>	CAST IRON	AISI 304 / AISI 316 / DUPLEX
9(*)	4	<b>N.4 O-RING</b>	NBR	NBR
10		<b>MOTOR EXTERNAL SLEEVE</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
11		<b>N.2 COVERS WINDING PROTECTION</b>	POM	POM
12		<b>LOWER SUPPORT</b>	CAST IRON	AISI 304 / AISI 316 / DUPLEX
13		<b>N.3 SCREW</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
14(*)	2	<b>N.2 DISKS CONTROSUSPENTION</b>	TEFLON	TEFLON
15		<b>N.2 SCREWS FOR CONTROSUSPENTION</b>	AISI 304	AISI 304
16		<b>BASE MOTOR</b>	CAST IRON	AISI 304 / AISI 316 / DUPLEX
17(*)	1	<b>DIAPHRAM</b>	NBR	NBR
18		<b>COVER DIAPHRAM</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
19		<b>N.4 SCREW FOR COVER DIAPHRAM</b>	AISI 304	AISI 304 / AISI 316 / DUPLEX
20		<b>NUT</b>	AISI 304	AISI 304
21		<b>SCREW</b>	AISI 304	AISI 304
22		<b>SEEGER</b>	AISI 304	AISI 304
23(*)	1	<b>TRUST BEARING</b>	AISI + GRAPHITE	AISI + GRAPHITE
24		<b>KEY</b>	AISI 304	AISI 304
25		<b>N.2 GRAINS FOR STABILIZER</b>	AISI 304	AISI 304
26		<b>COMPLETE ROTOR</b>	AISI	AISI
27		<b>N.2 STABILIZERS</b>	AISI	AISI
28(*)	1	<b>DEFLECTOR</b>	NBR	NBR
29		<b>CABLE</b>	H07 RNF	H07 RNF

\*Reccomended spare parts

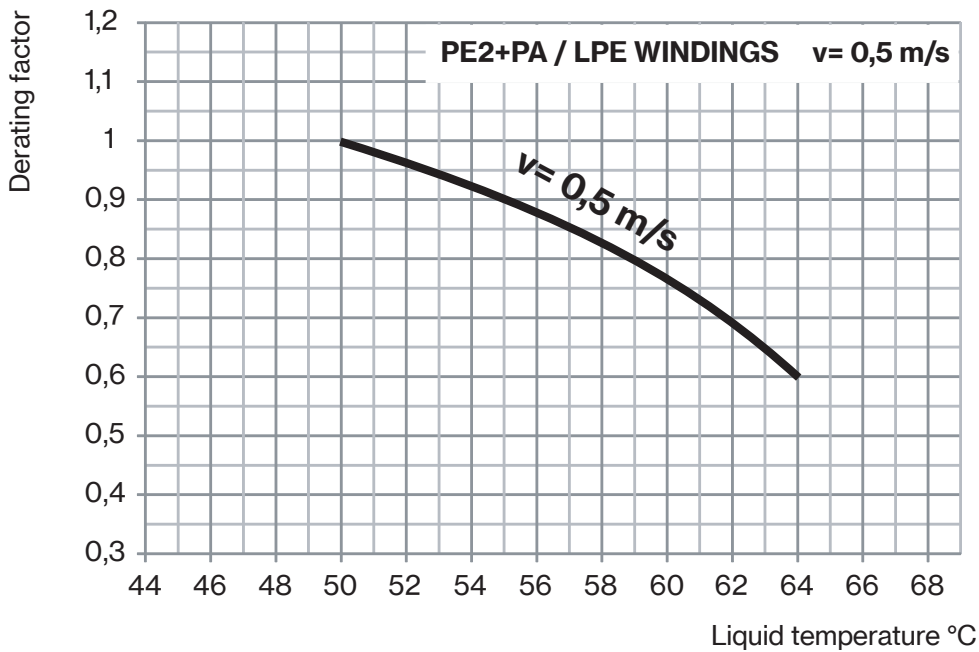


### OPERATING CONDITIONS AT DIFFERENT WATER TEMPERATURE

All 6" - 8" - 10" standard motors with PPC windings can operate at liquid temperatures up to 30 °C without derating factor. From 31 °C till 43 °C the motors have to be derated according to the factor shown in the following graph.



All 6" - 8" - 10" motors with PE2+PA / LPE windings can operate at liquid temperatures up to 50 °C without derating factor. From 51 °C till 64 °C the motors have to be derated according to the factor shown in the following graph.



Motor size	Max motor starts per hour	Winding max temperature (°C)			Liquid max temperature (°C)		
		PPC	LPE	PE2+PA	PPC	LPE	PE2+PA
6"	15	70	80	80	30	50	50
8"	10	70	80	80	30	50	50
10"	10	70	80	80	30	50	50

PPC = Y insulation class  
 LPE = F insulation class  
 PE2+PA = / F insulation class  
 Minimum liquid velocity for motor 6" - 8" - 10": 0,5 m/s

