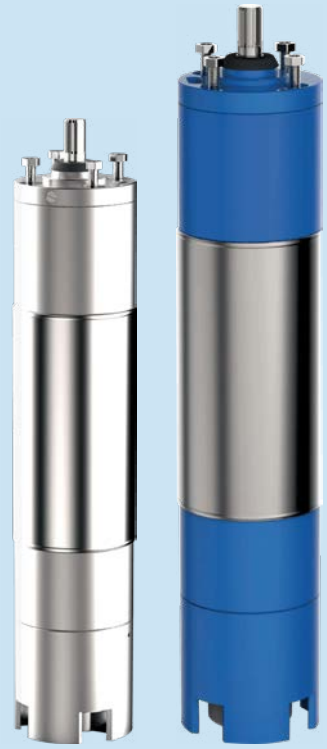
6R/8R/10R

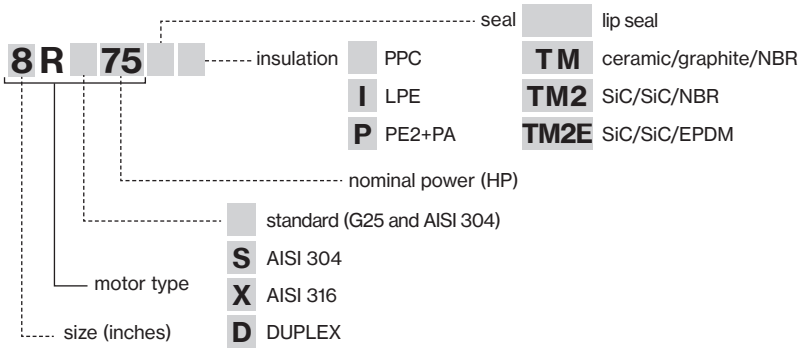
Submersible Well Motors



6”, 8”, 10” rewindable submersible water-filled motors with NEMA coupling flange and shaftend. Power from 4 kW up to 185 kW. Avaible 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	
Upper and bottom support	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)
Stator sleeve	stainless steel AISI 304 - (R) stainless steel AISI 304 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
Shaft end	stainless steel AISI 431 - (R) stainless steel AISI 431 - (RS) stainless steel AISI 316 - (RX) Duplex EN 1.4462 - (RD)
Seal type	lip seal (standard); mechanical seal (on request)
Bearings	radial and axial, water lubricated
Thrust bearing	Michell
Voltage	3~ 400V ± 10% - 50Hz 3~ 400/690V ± 10% - 50Hz
Min. cooling flow	0,5 m/s
Insulation class	Y (max 30° C) for PPC F (max 50° C) for PE2+PA or LPE
Insulation	PPC (standard) PE2 + PA or LPE (on request)
Protection degree	IPX8
Max depth immersion	350m
Available on demand	- PT 100 - Star/Delta starting - Cooling Sleeve - Cer./Carb./NBR Seal - SIC/SIC/NBR Seal

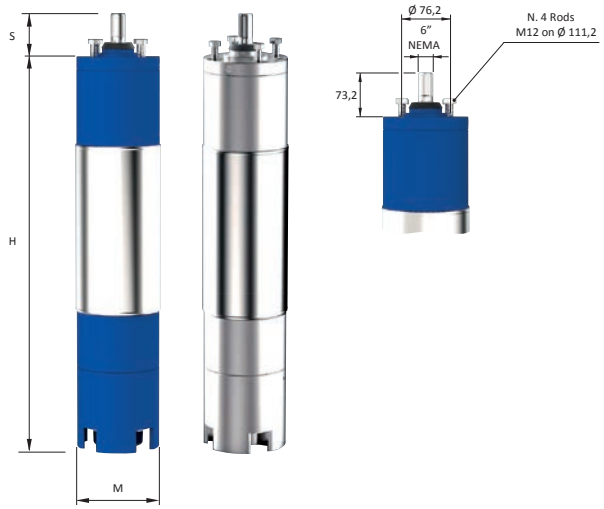




TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
6R7	7,5	5,5	380 400 415	12,4 12,3 12,3	2846 2859 2880	77,0 76,0 75,0	82,0 81,0 80,0	81,0 80,0 79,0	0,67 0,65 0,63	0,78 0,76 0,74	0,83 0,81 0,79	1,60	5,60	1,90	3,40		
6R10	10	7,5	380 400 415	16,6 16,3 16,3	2843 2861 2882	78,0 77,0 76,0	82,5 81,5 80,5	82,0 81,0 80,0	0,68 0,66 0,64	0,78 0,76 0,74	0,84 0,82 0,80	1,80	5,70	1,90	3,40		
6R12	12,5	9,2	380 400 415	20,2 19,9 19,9	2846 2864 2886	79,0 78,0 77,0	83,0 82,0 81,0	82,0 81,0 80,0	0,68 0,66 0,64	0,79 0,77 0,75	0,85 0,83 0,81	1,80	5,70	1,90	3,40		
6R15	15	11	380 400 415	23,7 23,4 23,4	2849 2867 2882	80,0 79,0 78,0	84,5 83,5 82,5	83,5 82,5 81,5	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,90	5,90	2,00	3,50	16000	
6R17	17,5	13	380 400 415	27,7 27,3 27,3	2851 2870 2887	81,0 80,0 79,0	84,5 83,5 82,5	84,0 83,0 82,0	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,80	6,00	2,00	3,60		
6R20	20	15	380 400 415	32 31,5 31,5	2852 2871 2883	82,0 81,0 80,0	85,0 84,0 83,0	84,0 83,0 82,0	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,70	5,90	2,00	3,50		15
6R25	25	18,5	380 400 415	38,9 38,3 38,6	2854 2873 2889	82,5 81,5 80,0	85,5 84,5 83,0	85,0 84,0 82,5	0,69 0,67 0,65	0,79 0,77 0,75	0,85 0,83 0,81	1,70	5,60	1,90	3,40		
6R30	30	22	380 400 415	45,8 45,1 45,3	2857 2877 2890	82,5 81,5 80,0	85,5 84,5 83,0	85,0 84,0 82,5	0,70 0,68 0,66	0,80 0,78 0,76	0,86 0,84 0,82	1,70	5,90	2,00	3,50		
6R35	35	26	380 400 415	53,8 52,9 53,2	2867 2878 2891	82,5 81,5 80,0	86,0 85,0 83,5	85,5 84,5 83,0	0,71 0,69 0,67	0,81 0,79 0,77	0,86 0,84 0,82	1,70	5,70	1,90	3,40	25000	
6R40	40	30	380 400 415	62,1 61,1 61,4	2861 2880 2892	82,5 81,5 80,0	86,0 85,0 83,5	85,5 84,5 83,0	0,72 0,70 0,68	0,81 0,79 0,77	0,86 0,84 0,82	1,70	5,60	1,90	3,40		
6R50	50	37	380 400 415	77 75,8 76,2	2863 2882 2891	83,0 82,0 80,5	86,5 85,5 84,0	85,0 84,0 82,5	0,72 0,70 0,68	0,81 0,79 0,77	0,86 0,84 0,82	1,60	5,60	1,90	3,40		

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	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
6R7	7,5	5,5	4G × 4 mm²	2×(4G × 4 mm²)	3	30 °C	50 °C
6R10	10	7,5	4G × 4 mm²	2×(4G × 4 mm²)			
6R12	12,5	9,2	4G × 4 mm²	2×(4G × 4 mm²)			
6R15	15	11	4G × 4 mm²	2×(4G × 4 mm²)			
6R17	17,5	13	4G × 6 mm²	2×(4G × 4 mm²)			
6R20	20	15	4G × 6 mm²	2×(4G × 4 mm²)			
6R25	25	18,5	4G × 6 mm²	2×(4G × 4 mm²)			
6R30	30	22	4G × 6 mm²	2×(4G × 4 mm²)			
6R35	35	26	4G × 10 mm²	2×(4G × 6 mm²)			
6R40	40	30	4G × 10 mm²	2×(4G × 6 mm²)			
6R50	50	37	4G × 10 mm²	2×(4G × 10 mm²)			



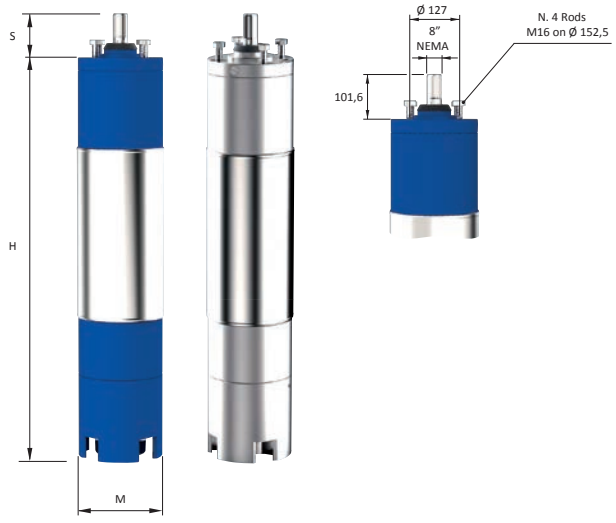
TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
6R7	671	73,2	145	45
6R10	701			55
6R12	751			60
6R15	811			65
6R17	841			70
6R20	931			75
6R25	991			83
6R30	1071			92
6R35	1181			100
6R40	1251			108
6R50	1341			118

8R-8RS-8RX-8RD

TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
8R40	40	30	380 400 415	64,4 61,7 60	2859 2875 2892	79,8 80,1 79,3	85,2 85,0 84,5	84,3 84,7 85,0	0,77 0,76 0,75	0,81 0,80 0,79	0,84 0,83 0,82	2,05	6,40	2,10	3,80	45000	10
8R50	50	37	380 400 415	75,4 73 71,8	2865 2888 2904	80,3 80,6 79,8	85,7 85,5 85,0	84,8 85,2 85,5	0,79 0,77 0,75	0,83 0,81 0,79	0,88 0,86 0,84	1,95	5,70	2,00	3,70		
8R60	60	45	380 400 415	90,2 86,3 84,8	2882 2893 2905	80,8 81,1 80,3	86,2 86,0 85,5	85,3 85,7 86,0	0,76 0,74 0,72	0,86 0,81 0,79	0,87 0,86 0,84	1,95	5,80	2,00	3,70		
8R75	75	55	380 400 415	110,2 106,2 105,4	2880 2889 2901	81,3 81,6 80,8	86,7 86,5 86,0	85,8 86,2 86,5	0,76 0,74 0,72	0,85 0,81 0,80	0,89 0,87 0,84	1,85	5,80	2,00	3,60		
8R90	90	66	380 400 415	130,7 126 125,1	2881 2892 2905	82,4 82,6 81,9	87,5 87,4 86,9	86,8 87,2 87,5	0,76 0,74 0,72	0,86 0,82 0,79	0,89 0,87 0,84	1,85	5,80	2,00	3,50		
8R100	100	75	380 400 415	148,5 143,2 142,1	2882 2893 2905	82,3 82,6 81,8	87,7 87,5 87,0	86,8 87,2 87,5	0,75 0,73 0,71	0,85 0,81 0,77	0,89 0,87 0,84	1,80	5,80	2,00	3,50		
8R125	125	92	380 400 415	183,5 175,1 172,7	2880 2891 2903	83,0 83,5 83,0	86,0 86,5 86,0	85,7 86,3 86,3	0,75 0,74 0,72	0,84 0,83 0,81	0,89 0,88 0,86	1,80	5,70	1,90	3,50		
8R150	150	110	380 400 415	218,6 211 212,1	2885 2898 2908	85,5 86,1 85,5	86,5 87,0 86,5	86,0 86,6 86,0	0,74 0,73 0,72	0,83 0,82 0,81	0,89 0,87 0,84	1,80	5,70	1,90	3,50		

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	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
8R40	40	30	3×1×10 mm²	6×1×10 mm²	3	30 °C	50 °C
8R50	50	37	3×1×10 mm²	6×1×10 mm²			
8R60	60	45	3×1×16 mm²	6×1×10 mm²			
8R75	75	55	3×1×16 mm²	6×1×10 mm²			
8R90	90	66	3×1×25 mm²	6×1×16 mm²			
8R100	100	75	3×1×25 mm²	6×1×16 mm²			
8R125	125	92	3×1×25 mm²	6×1×16 mm²			
8R150	150	110	3×1×35 mm²	6×1×25 mm²			

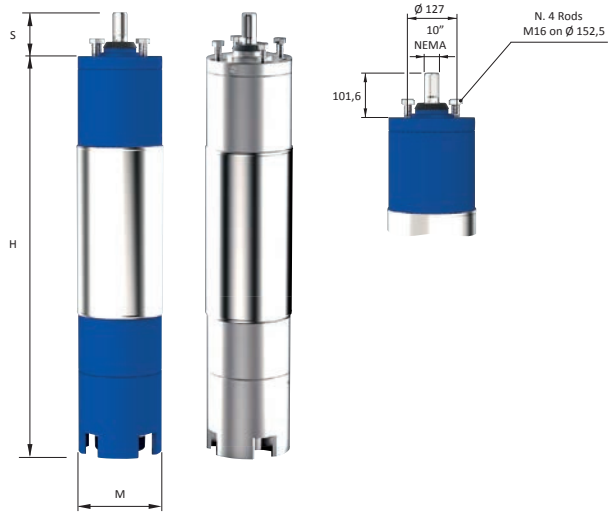


TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
8R40	993	101,6	194	150
8R50	1043			160
8R60	1123			178
8R75	1233			200
8R90	1302			214
8R100	1383			230
8R125	1583			270
8R150	1733			300

TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
			380	154,3	2884	86,9	87,0	88,0	0,73	0,80	0,84						
10R100	100	75	400	142,7	2896	85,9	88,0	88,3	0,72	0,84	0,86	1,80	6,40	1,90	3,40		
			415	143,9	2909	86,4	88,3	88,5	0,64	0,77	0,82						
			380	188,7	2890	87,2	87,3	88,3	0,74	0,83	0,84						
10R125	125	92	400	174,5	2904	86,2	88,3	88,6	0,71	0,83	0,86	1,60	6,30	1,80	3,40		
			415	176	2914	86,7	88,6	88,8	0,63	0,75	0,82						
			380	222,2	2930	87,9	88,0	89,0	0,71	0,81	0,85						
10R150	150	110	400	207	2937	86,9	89,0	89,3	0,73	0,84	0,86	1,55	6,70	1,80	3,30		
			415	211,3	2943	87,4	89,3	89,5	0,63	0,77	0,81						
			380	265,6	2895	87,5	88,2	89,0	0,73	0,81	0,83						
10R175	175	130	400	245,3	2915	86,5	89,3	89,4	0,71	0,83	0,85	1,85	5,80	2,00	3,60	60000	10
			415	244,6	2928	87,1	89,5	89,6	0,62	0,75	0,82						
			380	299,1	2898	87,1	88,2	89,0	0,72	0,82	0,84						
10R200	200	150	400	277,2	2917	86,1	88,5	89,1	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			415	278,1	2931	86,5	88,1	88,7	0,65	0,75	0,83						
			380	337,2	2901	86,5	87,5	88,6	0,72	0,82	0,84						
10R225	225	165	400	313,3	2920	85,4	87,2	88,5	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			415	313,9	2930	86,0	87,3	88,2	0,65	0,75	0,83						
			380	370	2904	87,4	88,0	89,0	0,73	0,83	0,85						
10R250	250	185	400	342,2	2924	86,5	88,7	89,3	0,72	0,82	0,87	1,50	6,50	1,80	3,30		
			415	340,9	2936	87,3	89,3	89,5	0,65	0,77	0,84						

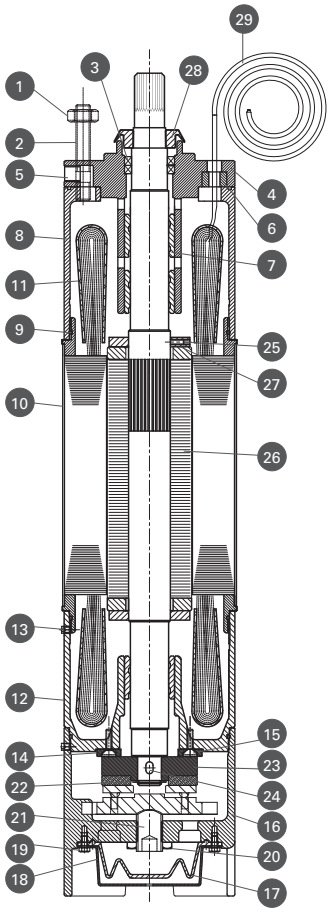
Service factor: 50Hz=1 - Direction of rotation (view from shaft projection side: anti-clockwise
Cs = Starting torque - Cn = Nominal couple - Is = Starting current - In = Nominal current

TYPE	Power		Cables		Cable lenght	Max water temperature by winding type	
			Starting				
	HP	kW	Direct	Star Delta	m	PPC	PE2-PA / LPE
			400 V ± 5%	400 / 690 V			
10R100	100	75	3×1×25 mm²	6×1×16 mm²			
10R125	125	92	3×1×25 mm²	6×1×16 mm²			
10R150	150	110	3×1×35 mm²	6×1×16 mm²			
10R175	175	130	3×1×35 mm²	6×1×25 mm²	3	30 °C	50 °C
10R200	200	150	3×1×50 mm²	6×1×25 mm²			
10R225	225	165	3×1×50 mm²	6×1×35 mm²			
10R250	250	185	3×1×50 mm²	6×1×35 mm²			



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

6R/8R/10R

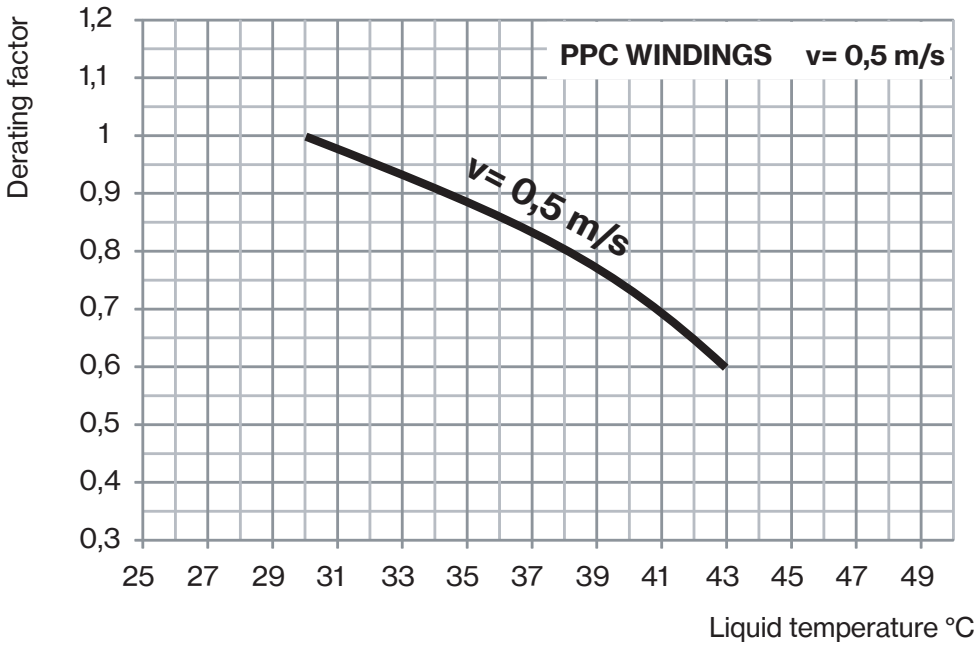


N. CODE	(*) Nº	DESCRIPTION	MATERIAL STANDARD VERSION R	MATERIAL VERSION RS-RX-RD
1		**N.4 Nuts**	AISI 304	AISI 304 / AISI 316 / DUPLEX
2		**N.4 Studs**	AISI 304	AISI 304 / AISI 316 / DUPLEX
3(*)	1	**N.2 Seal rings**	NBR	NBR
4		**Upper support**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
5		**N.2 Grains for Liquid filling**	AISI 304	AISI 304 / AISI 316 / DUPLEX
6		**Grommet**	NBR	NBR
7(*)	3	**N.3 Bearings**	GRAPHITE	GRAPHITE
8		**Motor casing**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
9(*)	4	**N.4 O-ring**	NBR	NBR
10		**Motor external sleeve**	AISI 304	AISI 304 / AISI 316 / DUPLEX
11		**N.2 Covers winding protection**	POM	POM
12		**Lower support**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
13		**N.3 Screw**	AISI 304	AISI 304 / AISI 316 / DUPLEX
14(*)	2	**N.2 Disks controsuspention**	TEFLON	TEFLON
15		**N.2 Screws for controsuspention**	AISI 304	AISI 304
16		**Base motor**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
17(*)	1	**Diaphram**	NBR	NBR
18		**Cover diaphram**	AISI 304	AISI 304 / AISI 316 / DUPLEX
19		**N.4 Screw for cover diaphram**	AISI 304	AISI 304 / AISI 316 / DUPLEX
20		**Nut**	AISI 304	AISI 304
21		**Screw**	AISI 304	AISI 304
22		**Seeger**	AISI 304	AISI 304
23(*)	1	**Trust bearing**	AISI + GRAPHITE	AISI + GRAPHITE
24		**Key**	AISI 304	AISI 304
25		**N.2 Grains for stabilizer**	AISI 304	AISI 304
26		**Complete rotor**	AISI	AISI
27		**N.2 Stabilizers**	AISI	AISI
28(*)	1	**Deflector**	NBR	NBR
29		**Cable**	H07 RNF	H07 RNF

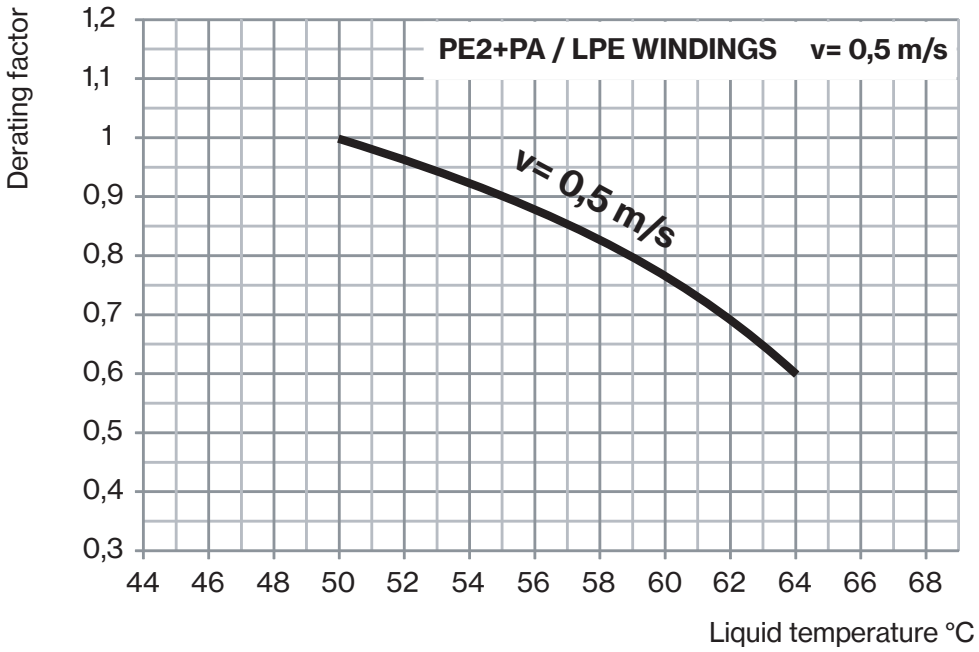
**Reccomended spare parts*

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.



Moter 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