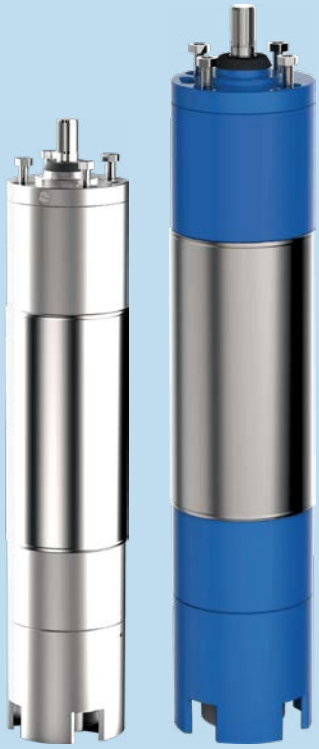
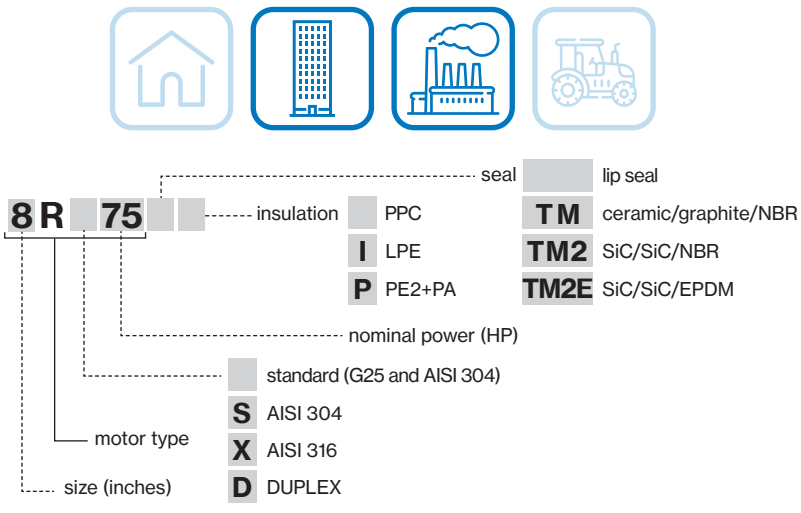
6R/8R/10R

Submersible Well Motors

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



Construction features	
Upper and bottom support	G25 (6R / 8R / 10R) AISI 304 (6RS / 8RS / 10RS) 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% - 60Hz 3~ 400/690V ± 10% - 60Hz
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

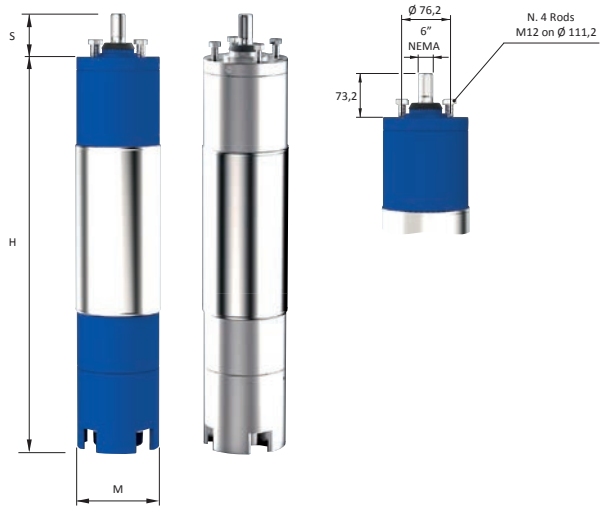


6R-6RS-6RX-6RD

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	
			230	21,3	3427	77	82	81	0,67	0,78	0,83						
6R7	7,5	5,5	400	12,3	3435	76	81	80	0,65	0,76	0,81	1,60	5,60	1,90	3,40		
			460	10,7	3441	75	80	79	0,63	0,74	0,79						
			230	28,2	3428	78	82,5	82	0,68	0,78	0,84						
6R10	10	7,5	400	16,3	3435	77	81,5	81	0,66	0,76	0,82	1,80	5,70	1,90	3,40		
			460	14,3	3439	76	80,5	80	0,64	0,74	0,80						
			230	34,4	3431	79	83	82	0,68	0,79	0,85						
6R12	12,5	9,2	400	19,9	3437	78	82	81	0,66	0,77	0,83	1,80	5,70	1,90	3,40		
			460	17,3	3443	77	81	80	0,64	0,75	0,81						
			230	40,5	3431	80	84,5	83,5	0,69	0,79	0,85						
6R15	15	11	400	23,4	3439	79	83,5	82,5	0,67	0,77	0,83	1,90	5,90	2,00	3,50		
			460	20,3	3446	78	82,5	81,5	0,65	0,75	0,81						
			230	47,2	3435	80	84,5	84	0,69	0,79	0,85						
6R17	17,5	13	400	27,3	3440	80	83,5	83	0,67	0,77	0,83	1,80	6,00	2,00	3,60		
			460	23,7	3446	79	82,5	82	0,65	0,75	0,81						
			230	55	3435	82	85	84	0,69	0,79	0,85					16000	
6R20	20	15	400	31,5	3440	81	84	83	0,67	0,77	0,83	1,70	5,90	2,00	3,50		15
			460	27,4	3446	80	83	82	0,65	0,75	0,81						
			230	66,2	3440	82	85,5	85	0,69	0,79	0,85						
6R25	25	18,5	400	38,3	3446	81	84,5	84	0,67	0,77	0,83	1,70	5,60	1,90	3,40		
			460	33,3	3449	80	83	82,5	0,65	0,75	0,81						
			230	78	3437	82,5	85,5	85	0,70	0,80	0,86						
6R30	30	22	400	45,1	3448	81,5	84,5	84	0,68	0,78	0,84	1,70	5,90	2,00	3,50		
			460	39,2	3453	80	83	82,5	0,66	0,76	0,82						
			230	91,5	3440	82,5	86	85,5	0,71	0,81	0,86						
6R35	35	26	400	52,9	3449	81,5	85	84,5	0,69	0,79	0,84	1,70	5,70	1,90	3,40	25000	
			460	46	3457	80	83,5	83,0	0,67	0,77	0,82						
			230	106	3446	82,5	86,0	85,5	0,72	0,81	0,86						
6R40	40	30	400	61,1	3453	81,5	85,0	84,5	0,70	0,79	0,84	1,70	5,60	1,90	3,40		
			460	53,2	3460	80	83,5	83	0,68	0,77	0,82						
			230	131	3451	83	86,5	85	0,72	0,81	0,86						
6R50	50	37	400	75,8	3457	82	85,5	84	0,70	0,79	0,84	1,60	5,60	1,90	3,40		
			460	66	3464	80,5	84	82,5	0,68	0,77	0,82						

Service factor: 60Hz=1.15 - 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
			460 V ± 5%	460 / 800 V			
6R7	7,5	5,5	4G × 4 mm²	2 × (4G × 4 mm²)			
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)	3	30 °C	50 °C
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 × 6 mm²)			

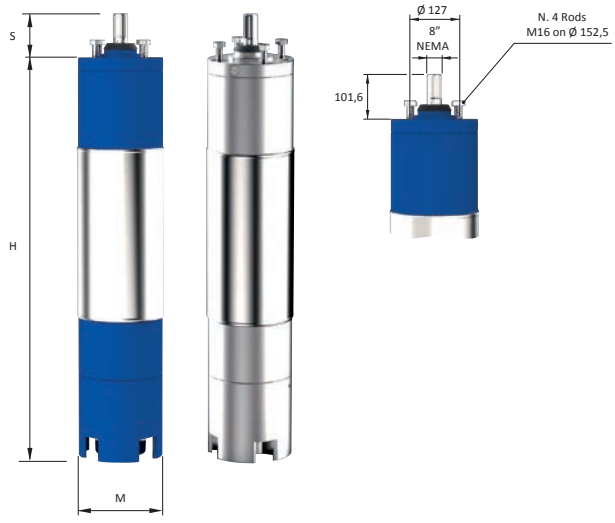


TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
6R7	671			45
6R10	701			55
6R12	751			60
6R15	811			65
6R17	841			70
6R20	931	73,2	145	75
6R25	991			83
6R30	1071			92
6R35	1181			100
6R40	1251			108
6R50	1341			118

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	
			230	106,5	3436	79,8	85,2	84,3	0,77	0,81	0,84						
8R40	40	30	400	61,7	3445	80,1	85	84,7	0,76	0,80	0,83	2,05	6,40	2,10	3,80		
			460	54	3456	79,3	84,5	85	0,75	0,79	0,82						
			230	126	3439	80,3	85,7	84,8	0,79	0,83	0,88						
8R50	50	37	400	73	3449	80,6	85,5	85,2	0,77	0,81	0,86	1,95	5,70	2	3,70		
			460	63,5	3457	79,8	85	85,5	0,75	0,79	0,84						
			230	149	3457	80,8	86,2	85,3	0,76	0,86	0,87						
8R60	60	45	400	86,3	3462	81,1	86	85,7	0,74	0,81	0,86	1,95	5,80	2	3,70		
			460	75,1	3469	80,3	85,5	86	0,72	0,79	0,84						
			230	184	3461	81,3	86,7	85,8	0,76	0,85	0,89						
8R75	75	55	400	106,2	3468	81,6	86,5	86,2	0,74	0,81	0,87	1,85	5,80	2	3,60		
			460	92,2	3472	80,8	86	86,5	0,72	0,80	0,84					45000	10
			230	218	3463	82,4	87,5	86,8	0,76	0,86	0,89						
8R90	90	66	400	126	3469	82,6	87,4	87,2	0,74	0,82	0,87	1,85	5,80	2	3,50		
			460	109,6	3473	81,9	86,9	87,5	0,72	0,79	0,84						
			230	247,7	3462	82,3	87,7	86,8	0,75	0,85	0,89						
8R100	100	75	400	143,2	3470	82,6	87,5	87,2	0,73	0,81	0,87	1,80	5,80	2	3,50		
			460	124,6	3476	81,8	87	87,5	0,71	0,77	0,84						
			230	302,9	3465	83	86	85,7	0,75	0,84	0,89						
8R125	125	92	400	175,1	3472	83,5	86,5	86,3	0,74	0,83	0,88	1,80	5,70	1,90	3,50		
			460	152,3	3478	83	86	86,3	0,72	0,81	0,86						
			230	366,1	3467	85,5	86,5	86	0,74	0,83	0,89						
8R150	150	110	400	211	3473	86,1	87	86,6	0,73	0,82	0,87	1,80	5,70	1,90	3,50		
			460	183,6	3478	85,5	86,5	86	0,72	0,81	0,84						

Service factor: 60Hz=1.15 - 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
			460 V ± 5%	460 / 800 V			
8R40	40	30	3 × 1 × 10 mm²	6 × 1 × 10 mm²			
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	5	30 °C	50 °C
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			



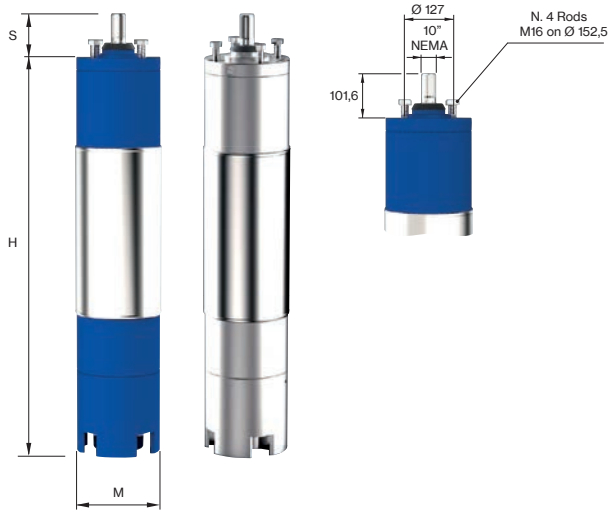
TYPE	DIMENSIONS			Kg
	H	S	M	
	mm			
8R40	993	101,6	194	150
8R50	1043			160
8R60	1123			178
8R75	1233			200
8R90	1302			214
8R100	1383			230
8R125	1583			270
8R150	1733			300

10R-10RS-10RX-10RD

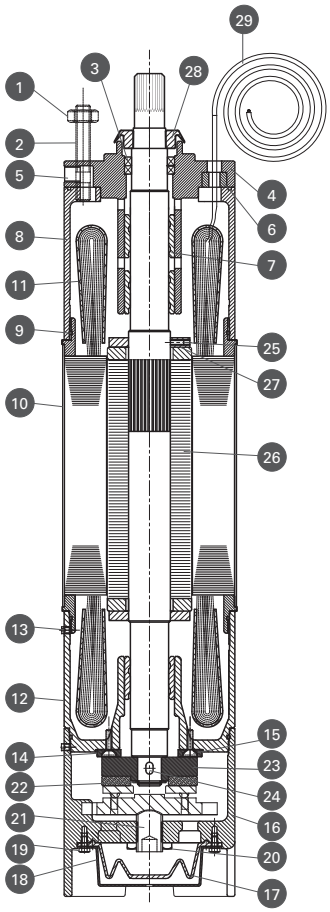
TYPE	Power		V	I_N	rpm	Efficency %			Cos Φ			Starting				Axial load	Start/ hour (max)
												Direct		Star-delta	Statoric		
	HP	kW		A		50%	75%	100%	50%	75%	100%	Cs/Cn	Is / In	Is / In	Is / In	N	
			230	247	3460	86,9	87	88	0,73	0,80	0,84						
10R100	100	75	400	142,7	3465	85,9	88	88,3	0,72	0,84	0,86	1,80	6,40	1,90	3,40		
			460	124	3470	86,4	88,3	88,5	0,64	0,77	0,82						
			230	303	3462	87,2	87,3	88,3	0,74	0,83	0,84						
10R125	125	92	400	174,5	3469	86,2	88,3	88,6	0,71	0,83	0,86	1,80	6,40	1,90	3,40		
			460	152	3474	86,7	88,6	88,8	0,63	0,75	0,82						
			230	358	3465	87,9	88	89	0,71	0,81	0,85						
10R150	150	110	400	207	3470	86,9	89	89,3	0,73	0,84	0,86	1,60	6,30	1,80	3,40		
			460	180	3475	87,4	89,3	89,5	0,63	0,77	0,81						
			230	423	3469	87,5	88,2	89	0,73	0,81	0,83						
10R175	175	130	400	245,3	3475	86,5	89,3	89,4	0,71	0,83	0,85	1,55	6,70	1,80	3,30	60000	10
			460	213	3482	87,1	89,5	89,6	0,62	0,75	0,82						
			230	480	3475	87,1	88,2	89	0,72	0,82	0,84						
10R200	200	150	400	277,2	3483	86,1	88,5	89,1	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			460	241	3488	86,5	88,1	88,7	0,65	0,75	0,83						
			230	542	3478	86,5	87,5	88,6	0,72	0,82	0,84						
10R225	225	165	400	313,3	3488	85,4	87,2	88,5	0,71	0,81	0,86	1,55	6,50	1,80	3,30		
			460	273	3492	86,0	87,3	88,2	0,65	0,75	0,83						
			230	590	3480	87,4	88	89	0,73	0,83	0,85						
10R250	250	185	400	342,2	3490	86,5	88,7	89,3	0,72	0,82	0,87	1,50	6,50	1,80	3,30		
			460	298	3496	87,3	89,3	89,5	0,65	0,77	0,84						

Service factor: 60Hz=1.15 - 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
			460 V ± 5%	460 / 800 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	5	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

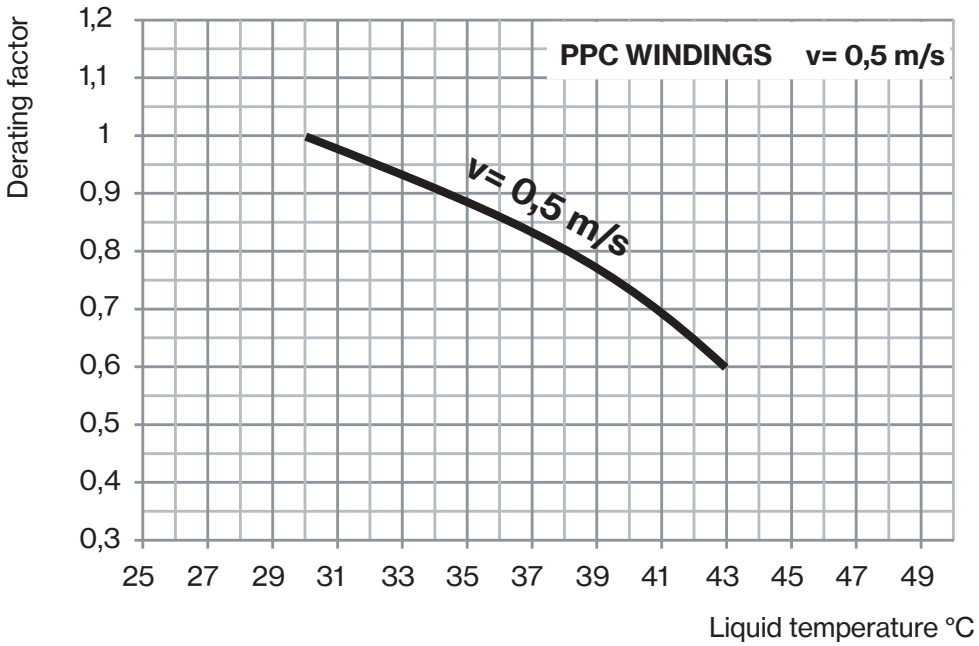


N. CODE	(*) N°	DESCRIPTION	MATERIAL STANDARD VERSION R	MATERIAL VERSION RS-RX-RD
1		**N.4 NUTS**	AISI 304	AISI 304 / AISI 316 / DUPLEX
2		**N.4 STUDS**	AISI 304	AISI 304 / AISI 316 / DUPLEX
3(*)	1	**N.2 SEAL RINGS**	NBR	NBR
4		**UPPER SUPPORT**	CAST IRON	AISI 304 / AISI 316 / DUPLEX
5		**N.2 GRAINS FOR 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

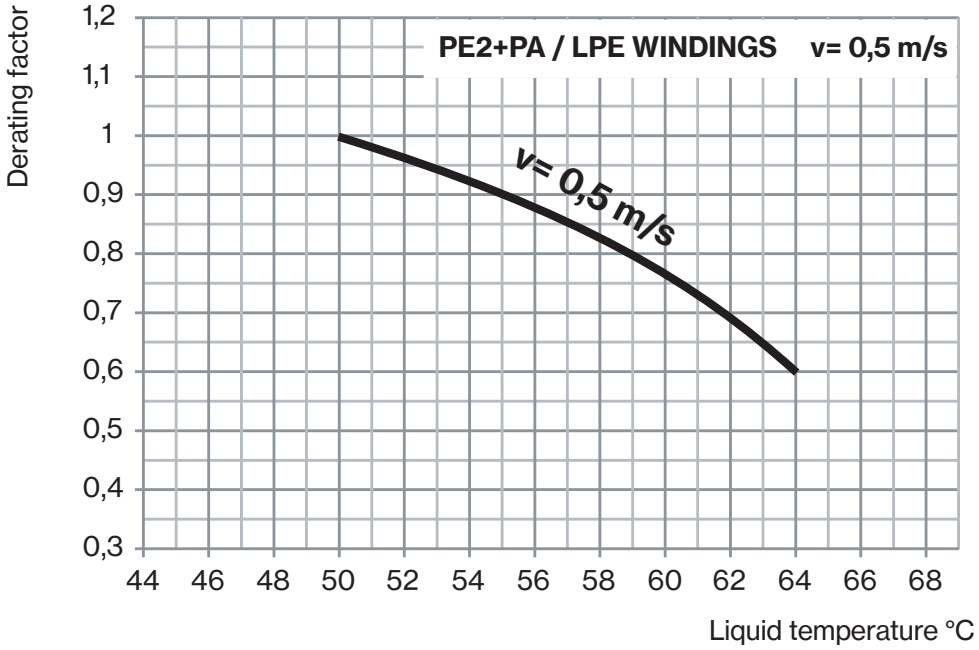
**Reccomended spare parts*

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