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Company Profile

Mat Company supply most of their products without compromising the quality concept in products and services.

Our company is specialised in irrigation and agriculture equipments with first class quality materials and services.

In a short of period time since the day we founded in 2011, we gained a wide respected reputation by exporting to more than 20 countries .

What makes our company unique is, Reliability, Quality, Accurate delivery times and Responsibility after sales services.

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A dynamic splash of clear blue water against a white background, with numerous droplets and a main vertical stream of water on the right side.

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SUBMERSIBLE MOTORS

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MAT

TYPE		12" HP		max. flow	
Q	H	W	Efficiency	Q	H
12	5	300	85	0.90	200
12	5	300	85	0.90	200
MAXIMUM		THERMAL		WEIGHT	
THERMAL		WEIGHT		WEIGHT	

SUBMERSIBLE MOTORS

All of our motors have wet stator and rotor. It is designed to work in water. Lubrication and cooling of radial and axial bearings are provided by water.

In our company;

- 5", 6", 7", 8", 9", 10" and 12" types,
- From 3 kW to 300 kW power,
- At 2 poles 50 Hz (2900 rpm) and 2 poles 60 Hz (3450 rpm) frequencies and speeds,
- 3 phases 380 - 415 Volt (50Hz) with 3 phases 230 - 460 Volt (60 Hz) voltage range,
- Rewindable feature,
- Submersible motors operating at a maximum watertemperature of 30 °C are produced. (Optional water temperature 70 °C).

All our motors have been subjected to the required tests according to the definitions of the standards before shipment. In the products; "Superior Technology and Low Energy Consumption" are given importance.

MAIN PARTS OF THE MOTOR

Submersible motors consist of two basic components: stator and rotor.

1-) STATOR:

It is the non-moving part of the submersible motor. It consists of pressing siliconized steel sheets. Three-phase rotating magnetic field windings are present here. The motor shell is made of AISI 304 material.

2-) ROTOR:

It is the part where the rotating and mechanical energy of the submersible motor is taken. It consists of siliconized steel sheet package and rotor shaft which passes through the middle of this package. Copper rods are placed in the grooves around the rotor and short circuit by copper rings.

The rotor shaft is made of CK 45 material with AISI 304 shaft end.

BEARINGS:

The radial and axial thrust bearings used in our engines are made of special carbon composition which is resistant to abrasion and impact. Rotor shaft bushings are made of hardchrome plated material.

The axial loads in the downward direction are balanced by a special bearing of "Mitchell" type, which is made up of self-tapping. All of these bearings are designed to be lubricated and cooled by water.

ELECTRIC CABLE:

Cable suitable for working under water.

STARTING:

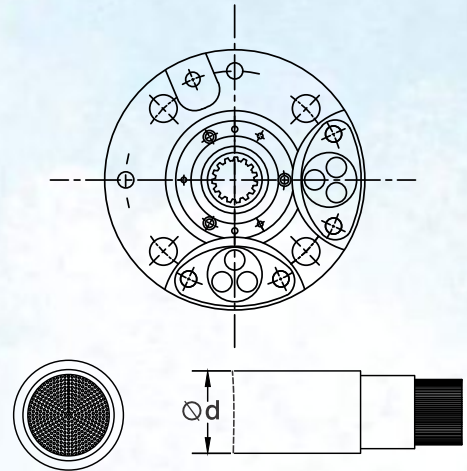
D.O.L. starting 4 HP - 20 HP, λ / Δ between 25 HP - 250 HP. Motors can designed suitable for D.O.L. and various voltage and frequency depending on demand.

General Features

Cable Sizes

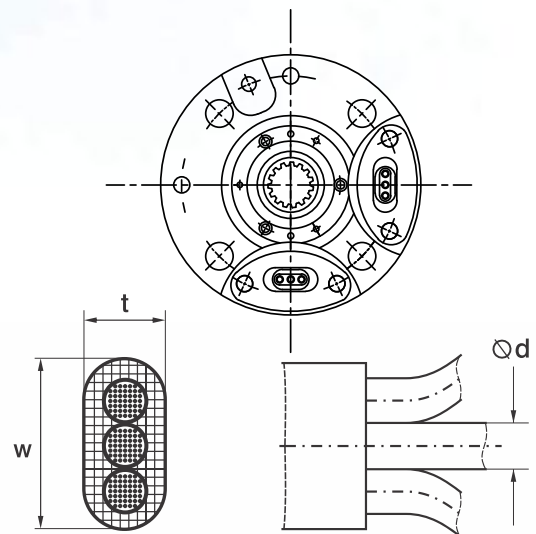
YV (Flexible Single Cable)

Motor Cable mm ²	Overall Diameter (Ø d) mm
1x4	7,75
1x6	7,90
1x10	9,10
1x16	9,80
1x25	12,25
1x35	13,15



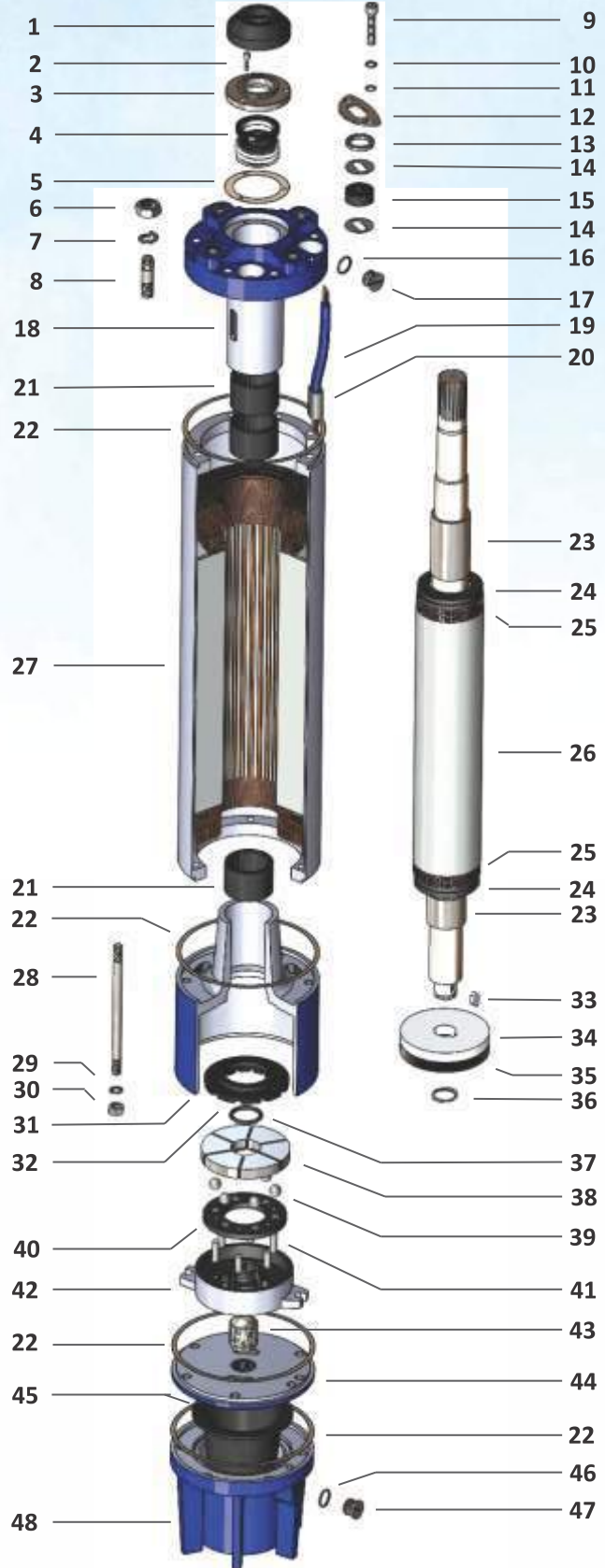
UFLAT EPVC (Flat Cable)

Motor Cable mm ²	Thickness (t) mm	Width (w) mm	Diameter (Ø d) mm
3x2,5	5,75	14,00	3,40
3x4	7,25	15,85	4,00
3x6	8,35	17,80	4,60
3x10	9,75	22,25	6,00
3x16	11,50	27,85	6,90
3x25	15,00	34,50	8,90
3x35	14,85	35,10	10,20



MOTOR & PUMP BOLT CONNECTION

Motor Type	Motor Power	Bolt Connection	Motor Dia. (mm)
NM6	4 HP - 60 HP	M12	Ø 143
NM7	30 HP - 85 HP	M12	Ø 171
NM8	30 HP - 150 HP	M16	Ø 192
NM9	100 HP - 175 HP	M16	Ø 212
NM10	100 HP - 175 HP 200 HP - 250 HP	M16 / M20	Ø 230 Ø 232



Part List

Part Name	Material
1 Slinger (Sand Guard)	RUBBER (EPDM)
2 Mechanical Seal Lid in Imbus Screw	AISI 304
3 Mechanical Seal Lid	AISI 420
4 Mechanical Seal	SERAMIC - CARBON
5 Mechanical Seal Klinger Gasket	PAPER
6 Motor-Pump Locking Nut	AISI 304
7 Motor-Pump Locking Washer	AISI 304
8 Motor-Pump Assembly Studs	AISI 304
9 Upper Bearing Body Screw	AISI 304
10 Imbus Screw O-ring	RUBBER (NBR)
11 Imbus Screw Washer	COPPER
12 Cable Cover	AISI 304
13 Cable-Press Part	THERMOPLASTIC
14 Cable-Press Washer	AISI 304
15 Gland	RUBBER (EPDM)
16 Plug O-ring	RUBBER (NBR)
17 Plug	AISI 304
18 Upper Bearing Body	CAST IRON (GG20)
19 Electric Cable	COPPER
20 Plastic Cable Holder (Glove Type)	RUBBER (EPDM)
21 Radial Carbon Bearing	CARBON
22 Klinger Gasket	PAPER
23 Rotor Shaft Bushing	CHROME COATED ST 52
24 Rotor Balance Ring	ST 37
25 Short Circuit Ring	COPPER
26 Rotor	SILICA SHEET / STEEL SHAFT / COPPER
27 Coil Stator	SILICA SHEET / AISI 304 / COPPER
28 Tie Rod	AISI 304
29 Sealing O-ring	RUBBER (NBR90) + STEEL
30 Lower Lid Nut	AISI 304
31 Lower Bearing Body	CAST IRON (GG20)
32 Counter-thrust Sliding Block	RUBBER (EPDM)
33 Thrust Bearing Wedge	AISI 304
34 Thrust Sliding	AISI 420
35 Thrust Disc Carbon	CARBON
36 Seeger Ring	ST 52
37 Mitchell Thrust Bearing O-ring	RUBBER (NBR)
38 Mitchell Thrust Bearing Sliding Blocks	AISI 420
39 Mitchell Thrust Bearing Balls	AISI 304
40 Mitchell Thrust Bearing Ball Centering	ST 37
41 Mitchell Thrust Bearing Pins	AISI 304
42 Mitchell Thrust Bearing Body	CAST IRON (GG20)
43 Motor Adjustment Screw	AISI 420
44 Membrane Flange	CAST IRON (GG20)
45 Membrane	RUBBER (EPDM)
46 Lower Plug O-ring	RUBBER (NBR)
47 Lower Plug	AISI 304
48 Membrane Body	CAST IRON (GG20)

Performance Datas

Motor Type	Motor Power		Voltage	Rotational Speed	Nominal Current	Starting Current	Efficiency [η %]			Power Factor [$\cos \phi$]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
NM6/4	3	4	380	2869	7,7	25	71	75	76	0,59	0,71	0,78
			400	2887	7,8	28	68	73	76	0,53	0,65	0,73
			415	2899	7,9	30	65	72	76	0,50	0,61	0,69
NM6/6	4,5	6	380	2869	11,5	40	71	75	76	0,59	0,71	0,78
			400	2887	11,6	42	68	73	76	0,53	0,65	0,73
			415	2899	11,7	45	65	72	76	0,50	0,61	0,69
NM6/7,5	5,5	7,5	380	2857	13,7	48	74	76	75	0,66	0,76	0,81
			400	2877	13,3	51	72	76	76	0,61	0,72	0,79
			415	2890	13,4	53	71	75	75	0,58	0,70	0,76
NM6/10	7,5	10	380	2876	18,3	59	77	78	76	0,69	0,78	0,82
			400	2893	17,7	63	75	78	77	0,64	0,74	0,80
			415	2903	17,7	65	73	77	77	0,60	0,72	0,78
NM6/12,5	9,3	12,5	380	2872	22,0	74	79	80	78	0,70	0,78	0,82
			400	2888	21,4	78	78	79	78	0,63	0,74	0,80
			415	2899	21,2	81	76	79	78	0,59	0,71	0,78
NM6/15	11	15	380	2879	25,8	93	78	80	78	0,70	0,78	0,83
			400	2894	25,2	98	77	80	79	0,64	0,74	0,81
			415	2903	25,1	102	75	78	79	0,60	0,72	0,78
NM6/17,5	13	17,5	380	2882	30,1	118	80	81	80	0,67	0,77	0,82
			400	2897	29,6	125	78	80	80	0,60	0,72	0,79
			415	2906	29,7	130	76	79	80	0,56	0,69	0,76
NM6/20	15	20	380	2873	33,9	140	81	82	81	0,70	0,79	0,83
			400	2889	33,1	148	79	81	81	0,64	0,75	0,81
			415	2899	33,0	154	77	80	81	0,59	0,72	0,79
NM6/25	18,5	25	380	2863	42,3	172	81	82	81	0,67	0,76	0,82
			400	2880	42,0	182	78	81	81	0,60	0,72	0,78
			415	2891	42,5	189	76	79	80	0,56	0,69	0,75
NM6/30	22	30	380	2868	49,1	218	82	84	83	0,67	0,76	0,82
			400	2884	49,0	231	80	82	83	0,60	0,71	0,78
			415	2896	49,6	240	77	81	82	0,55	0,68	0,75
NM6/35	26	35	380	2864	57,5	268	83	84	83	0,67	0,76	0,83
			400	2881	56,7	284	81	83	83	0,60	0,71	0,80
			415	2891	57,3	296	78	82	82	0,55	0,68	0,77
NM6/40	30	40	380	2838	66,4	328	82	84	83	0,66	0,76	0,83
			400	2858	66,4	347	80	83	83	0,59	0,71	0,79
			415	2871	67,5	361	77	81	82	0,54	0,67	0,76
NM6/50	37	50	380	2833	82,0	409	83	84	83	0,66	0,76	0,83
			400	2854	81,9	433	80	83	83	0,59	0,70	0,79
			415	2867	83,9	450	77	81	82	0,54	0,67	0,75
NM6/60	45	60	380	2805	97,4	499	84	85	84	0,67	0,77	0,84
			400	2830	97,0	521	81	84	84	0,60	0,71	0,80
			415	2845	99,4	560	78	82	83	0,55	0,78	0,76

Technical Specifications

Motor Type	Motor Power		Winding Wire	Starting	Motor Cable	Cable Length	Max. Start	Axial Thrust	Motor Dia.	Motor Length (L _M)	Motor Weight (W _M)
	P _N										
	kW	HP									
				[mm ²]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]	
NM6/4	3	4	PPC	D.O.L.	3x2,5	3	20	20	Ø 143	644,0	42,3
NM6/6	4,5	6	PPC	D.O.L.	3x2,5	3	20	20		657,0	44,7
NM6/7,5	5,5	7,5	PPC	D.O.L.	3x2,5	3	20	20		681,0	45,6
NM6/10	7,5	10	PPC	D.O.L.	3x2,5	3	20	20		761,0	53,3
NM6/12,5	9,3	12,5	PPC	D.O.L.	3x2,5	3	20	20		801,0	57,9
NM6/15	11	15	PPC	D.O.L.	3x2,5	3	20	20		854,0	63,4
NM6/17,5	13	17,5	PPC	D.O.L.	3x4	3	20	20		914,0	69,1
NM6/20	15	20	PPC	D.O.L.	3x4	3	20	20		976,0	75,7
NM6/25	18,5	25	PPC	λ / Δ	3x4	2x3	20	20		1009,0	79,9
NM6/30	22	30	PPC	λ / Δ	3x4	2x4	20	27,5		1125,0	92,3
NM6/35	26	35	PPC	λ / Δ	3x4	2x4	20	27,5		1165,0	97,7
NM6/40	30	40	PPC	λ / Δ	3x4	2x5	20	27,5		1235,0	105,8
NM6/50	37	50	PPC	λ / Δ	3x6	2x5	15	27,5		1335,0	115,9
NM6/60	45	60	PPC	λ / Δ	3x6	2x5	15	27,5		1395,0	122,0

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %1Q U / +%6 U
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m³
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
3 kW - 15 kW V = 0,2 m/s
18,5 kW - 45 kW V = 0,5 m/s
- Service Factor (S.F) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
- Variable Operation Revolutions by Frequency Converter (Over 30 Hz)

- Availability to be Operated by Soft-Starter
- Rewindable Windings
- PPC Coil Wire
- PVC Output Power Cable
- Shaft End and Connection Flange in 6" NEMA Standarts
- Ceramic - Carbon Mechanical Seal (IP68)
- AISI 420 Mechanical Seal Lid
- AISI 304 Motor Body
- AISI 304 Rotor Shaft End
- St37 Stator Flanges
- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 ° C)
- Maximum Storage Temperature ; -15 °C / +60 °C
- AISI 304 Plug
- Tolerance in IEC EN 60034-1 and NEMA MG1 Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.O.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Lid (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)

Performance Datas

Motor Type	Motor Power		Voltage	Rotational Speed	Nominal Current	Starting Current	Efficiency [η %]			Power Factor [$\cos \phi$]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
NM7/30	22	30	380	2891	48,0	230	82	85	83	0,67	0,77	0,84
			400	2902	48,0	236	80	82	83	0,62	0,72	0,80
			415	2914	49,0	248	78	82	83	0,56	0,67	0,76
NM7/40	30	40	380	2883	64,0	308	84	84	83	0,70	0,79	0,86
			400	2901	64,0	315	84	85	84	0,63	0,74	0,81
			415	2907	65,0	328	80	83	84	0,58	0,69	0,77
NM7/50	37	50	380	2877	79,0	380	87	87	84	0,73	0,81	0,86
			400	2898	76,0	387	84	85	84	0,65	0,78	0,84
			415	2907	75,0	390	84	85	84	0,60	0,75	0,82
NM7/60	45	60	380	2867	94,0	461	87	86	85	0,74	0,81	0,86
			400	2885	92,0	465	87	88	86	0,66	0,77	0,83
			415	2895	92,0	475	85	86	86	0,62	0,74	0,80
NM7/75	55	75	380	2877	119,0	588	85	85	85	0,74	0,80	0,83
			400	2892	118,0	605	83	85	85	0,65	0,76	0,80
			415	2902	119,0	620	82	84	85	0,62	0,73	0,77
NM7/85	63	85	380	2882	133,0	662	86	86	84	0,74	0,81	0,86
			400	2898	128,0	665	85	86	85	0,65	0,77	0,84
			415	2907	128,0	680	84	86	85	0,64	0,74	0,81

7"

50 Hz - 2900 rpm

Rewindable Motors

MAT

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Technical Specifications

Motor Type	Motor Power		Winding Wire	Starting	Motor Cable	Cable Length	Max. Start	Axial Thrust	Motor D?a.	Motor Length (L _M)	Motor Weight (W _M)
	P _N										
	kW	HP									
					[mm ²]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]
NM7/30	22	30	PPC	λ / Δ	3x6	2x4	17	45	Ø 171	993,0	105,3
NM7/40	30	40	PPC	λ / Δ	3x10	2x4	17	45		1063,0	116,1
NM7/50	37	50	PPC	λ / Δ	3x10	2x4	17	45		1153,0	129,3
NM7/60	45	60	PPC	λ / Δ	3x10	2x4	17	45		1243,0	145,2
NM7/75	55	75	PPC	λ / Δ	3x10	2x4	17	45		1333,0	159,3
NM7/85	63	85	PPC	λ / Δ	3x10	2x4	17	45		1443,0	176,0

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %10_U / +%6_U
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m³
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
22 kW - 63 kW V = 0,2 m/s
- Service Factor (S.F.) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
- Variable Operation Revolutions by Frequency Converter (Over 30 Hz)
- Availability to be Operated by Soft-Starter
- Rewindable Windings
- PPC Coil Wire
- PVC Output Power Cable
- Shaft End and Connection Flange in 6" NEMA Standards
- Ceramic - Carbon Mechanical Seal (IP68)
- AISI 420 Mechanical Seal Lid
- AISI 304 Motor Body
- AISI 304 Rotor Shaft End
- St37 Stator Flanges
- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 °C)
- Maximum Storage Temperature ; -15 °C / +60 °C
- AISI 304 Plug
- Tolerance in IEC EN 60034-1 and NEMA MG1 Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.Q.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Lid (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)

Performance Datas

Motor Type	Motor Power		Voltage	Rotational Speed	Nominal Current	Starting Current	Efficiency [η %]			Power Factor [$\cos \phi$]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
NM8/30	22	30	380	2890	46,0	215	82,5	83,1	83,0	0,83	0,86	0,88
			400	2905	44,0	235	82,6	83,6	83,1	0,80	0,85	0,87
			415	2914	42,0	243	83,0	83,8	84,0	0,79	0,85	0,87
NM8/40	30	40	380	2890	63,0	300	83,5	84,4	83,1	0,87	0,86	0,87
			400	2905	60,0	318	83,6	85,0	84,3	0,78	0,84	0,87
			415	2914	58,0	332	83,5	85,2	84,9	0,75	0,87	0,86
NM8/50	37	50	380	2886	79,0	378	84,6	85,3	83,9	0,78	0,84	0,86
			400	2902	76,0	400	83,9	85,2	84,6	0,72	0,80	0,84
			415	2911	75,0	412	82,6	84,5	84,3	0,68	0,78	0,82
NM8/60	45	60	380	2889	93,0	491	85,8	86,4	85,2	0,77	0,84	0,87
			400	2904	90,0	520	85,3	86,5	85,9	0,72	0,80	0,84
			415	2912	89,0	541	84,5	86,2	85,8	0,67	0,77	0,82
NM8/75	55	75	380	2883	114,0	624	86,5	86,9	85,7	0,76	0,83	0,86
			400	2898	110,0	660	85,9	87,0	86,4	0,70	0,80	0,84
			415	2907	109,0	688	84,8	86,4	86,2	0,65	0,76	0,82
NM8/85	63	85	380	2882	130,0	705	86,5	86,9	85,7	0,76	0,83	0,86
			400	2898	125,0	724	85,9	87,0	86,4	0,70	0,80	0,84
			415	2907	124,0	739	84,8	86,4	86,3	0,65	0,76	0,82
NM8/95	70	95	380	2877	143,0	801	86,6	87,0	85,8	0,77	0,84	0,87
			400	2893	138,0	812	86,1	87,1	86,4	0,71	0,81	0,85
			415	2902	137,0	816	85,3	86,5	86,4	0,66	0,77	0,82
NM8/100	75	100	380	2869	154,0	892	86,7	87,1	85,9	0,77	0,84	0,87
			400	2886	148,0	942	86,2	87,3	86,7	0,73	0,81	0,85
			415	2896	147,0	982	85,4	86,9	86,6	0,68	0,77	0,82
NM8/110	81	110	380	2874	169,0	1019	86,7	87,1	85,9	0,75	0,82	0,85
			400	2890	163,0	1077	86,2	87,3	86,7	0,71	0,79	0,83
			415	2900	161,0	1120	85,4	86,9	86,6	0,66	0,75	0,81
NM8/125	92	125	380	2878	188,0	1186	87,8	88,4	87,5	0,75	0,82	0,85
			400	2893	183,0	1276	87,2	88,3	87,8	0,71	0,79	0,83
			415	2902	183,0	1308	86,2	87,8	87,7	0,66	0,75	0,80
NM8/150	110	150	380	2868	225,0	1420	88,0	88,6	88,0	0,75	0,82	0,85
			400	2876	218,0	1520	88,0	88,5	87,9	0,71	0,79	0,83
			415	2896	215,0	1540	87,1	88,2	88,1	0,67	0,76	0,81

Technical Specifications

Motor Type	Motor Power		Winding Wire	Starting	Motor Cable	Cable Length	Max. Start	Axial Thrust	Motor Dia.	Motor Length (L _M)	Motor Weight (W _M)
	P _N										
	kW	HP									
				[mm ²]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]	
NM8/30	22	30	PPC	λ / Δ	3X10	2X5	15	45		984,5	124,0
NM8/40	30	40	PPC	λ / Δ	3X10	2X5	15	45		1034,5	134,0
NM8/50	37	50	PPC	λ / Δ	3X10	2X5	15	45		1094,5	145,0
NM8/60	45	60	PPC	λ / Δ	3X10	2X5	15	45		1179,5	160,0
NM8/75	55	75	PPC	λ / Δ	3X10	2X5	15	45		1264,5	178,0
NM8/85	63	85	PPC	λ / Δ	3X10	2X5	15	45	Ø 192	1344,5	192,3
NM8/95	70	95	PPC	λ / Δ	3X16	2X5	15	60		1369,5	202,0
NM8/100	75	100	PPC	λ / Δ	3X16	2X5	15	60		1399,5	207,5
NM8/110	81	110	PPC	λ / Δ	3X16	2X5	15	60		1449,5	218,3
NM8/125	92	125	PPC	λ / Δ	3X16	2X5	10	60		1519,5	231,3
NM8/150	110	150	PPC	λ / Δ	3X16	2X5	10	60		1619,5	252,0

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %10 U_N / + %6 U_i
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m³
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
22 kW - 55 kW V = 0,2 m/s
63 kW - 110 kW V = 0,5 m/s
- Service Factor (S.F) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
- Variable Operation Revolutions by Frequency Converter (Over 30 Hz)

- Availability to be Operated by Soft-Starter
- Rewindable Windings
- PPC Coil Wire
- PVC Output Power Cable
- Shaft End and Connection Flange in 8" NEMA Standarts
- Ceramic - Carbon Mechanical Seal (IP68)
- AISI 420 Mechanical Seal Lid
- AISI 304 Motor Body
- AISI 304 Rotor Shaft End
- St37 Stator Flanges
- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 °C)
- Maximum Storage Temperature ; -15 °C / +60 °C
- AISI 304 Plug
- Tolerance in IEC EN 60034-1 and NEMA MG1 Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.O.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Lid (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)

Performance Datas

Motor Type	Motor Power		Voltage	Rotational Speed	Nominal Current	Starting Current	Efficiency [η %]			Power Factor [$\cos \phi$]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
NM9/100	75	100	380	2895	154	920	84,5	84,5	84,0	0,80	0,85	0,87
			400	2910	148	960	82,5	84,5	84,0	0,77	0,83	0,86
			415	2920	147	980	81,0	82,0	83,0	0,71	0,82	0,85
NM9/110	81	110	380	2903	168	1019	85,5	85,5	85,0	0,80	0,85	0,87
			400	2915	162	1070	82,5	84,5	84,0	0,77	0,83	0,86
			415	2923	159	1110	82,0	83,0	84,0	0,71	0,82	0,85
NM9/125	92	125	380	2900	187	1186	86,5	86,5	86,0	0,81	0,86	0,87
			400	2913	182	1270	83,5	85,5	85,0	0,77	0,83	0,86
			415	2921	178	1280	83,5	86,0	85,0	0,71	0,82	0,85
NM9/150	110	150	380	2910	223	1420	86,5	86,5	86,0	0,80	0,85	0,87
			400	2920	213	1480	84,5	86,5	86,0	0,78	0,84	0,87
			415	2920	211	1490	84,5	87,0	86,0	0,72	0,82	0,86
NM9/175	129	175	380	2900	263	1680	85,5	86,0	85,0	0,78	0,86	0,88
			400	2920	252	1700	86,0	86,5	86,0	0,73	0,81	0,86
			415	2920	247	1765	85,0	86,5	87,0	0,68	0,78	0,84

Technical Specifications

Motor Type	Motor Power		Winding Wire	Starting	Motor Cable	Cable Length	Max. Start	Axial Thrust	Motor D?a.	Motor Length (L _M)	Motor Weight (W _M)
	P _N										
	kW	HP									
				[mm ²]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]	
NM9/100	75	100	PPC	λ / Δ	3x16	2X5	12	75	Ø 212	1314,0	240,0
NM9/110	81	110	PPC	λ / Δ	3x16	2X5	12	75		1359,0	251,0
NM9/125	92	125	PPC	λ / Δ	3x16	2X5	12	75		1469,0	265,3
NM9/150	110	150	PPC	λ / Δ	3x16	2X5	12	75		1566,0	289,3
NM9/175	129	175	PPC	λ / Δ	3x25	2X5	12	75		1674,0	315,2

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %10, U_N / + %6 U_N
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m³
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
75 kW - 129 kW V = 0,5 m/s
- Service Factor (S.F) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
- Variable Operation Revolutions by Frequency Converter (Over 30 Hz)
- Availability to be Operated by Soft-Starter

- Rewindable Windings
- PPC Coil Wire
- PVC Output Power Cable
- Shaft End and Connection Flange in 8" NEMA Standarts
- Ceramic - Carbon Mechanical Seal (IP68)
- AISI 420 Mechanical Seal Lid
- AISI 304 Motor Body
- AISI 304 Rotor Shaft End
- St37 Stator Flanges
- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 °C)
- Maximum Storage Temperature ; -15 °C / +60 °C
- AISI 304 Plug
- Tolerance in IEC EN 60034-1 and NEMA MG1 Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.O.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Lid (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)

Performance Datas

Motor Type	Motor Power		Voltage	Rotational Speed	Nominal Current	Starting Current	Efficiency [η %]			Güç Faktörü Power Factor [$\cos \phi$]		
	P_N		U_N	n_N	I_N	I_A	% load			% load		
	kW	HP	[V]	[rpm]	[A]	[A]	50 %	75 %	100 %	50 %	75 %	100 %
NM10/100	75	100	380	2895	154	635	85,5	86,0	84,5	0,84	0,87	0,88
			400	2910	147	701	86,0	86,5	85,0	0,82	0,85	0,87
			415	2920	145	729	85,5	86,5	85,5	0,77	0,83	0,85
NM10/110	81	110	380	2903	166	800	85,5	86,0	84,5	0,84	0,87	0,88
			400	2915	159	869	86,0	86,5	85,0	0,82	0,85	0,87
			415	2923	152	890	85,5	86,5	85,5	0,79	0,85	0,87
NM10/125	92	125	380	2900	187	904	86,0	86,5	85,0	0,84	0,87	0,88
			400	2913	180	965	86,0	86,5	85,0	0,82	0,85	0,87
			415	2921	177	989	85,5	86,5	85,5	0,77	0,83	0,85
NM10/150	110	150	380	2910	222	1095	87,0	87,5	86,0	0,84	0,87	0,88
			400	2920	211	1158	87,0	87,5	86,0	0,83	0,86	0,88
			415	2920	207	1206	86,0	87,0	86,0	0,78	0,84	0,86
NM10/175	129	175	380	2893	259	1285	86,5	87,0	86,5	0,83	0,87	0,88
			400	2912	249	1344	87,0	87,0	87,5	0,80	0,85	0,86
			415	2915	240	1400	85,5	87,5	87,5	0,77	0,83	0,86
NM10/200	147	200	380	2903	299	1502	85,5	87,0	86,0	0,82	0,86	0,87
			400	2920	284	1590	85,0	88,0	87,0	0,78	0,84	0,86
			415	2922	277	1655	85,0	88,0	86,0	0,75	0,82	0,86
NM10/225	166	225	380	2903	334	1750	86,0	88,0	87,0	0,81	0,86	0,87
			400	2909	318	1865	87,0	88,0	87,0	0,78	0,84	0,87
			415	2922	309	1899	87,0	88,0	87,0	0,75	0,82	0,86
NM10/250	185	250	380	2912	370	2030	87,0	87,0	87,5	0,79	0,85	0,87
			400	2921	358	2148	85,0	87,5	88,0	0,74	0,83	0,85
			415	2926	353	2237	85,5	87,0	88,0	0,70	0,80	0,83

Technical Specifications

Motor Type	Motor Power		Winding Wire	Starting	Motor Cable	Cable Length	Max. Start	Axial Thrust	Motor Dia.	Motor Length (L _M)	Motor Weight (W _M)
	P _N										
	kW	HP									
				[mm ²]	[m]	[start/h]	[kN]	[mm]	[mm]	[kg]	
NM10/100	75	100	PPC	λ / Δ	3x16	2X5	10	75	Ø 230	1270,0	247,3
NM10/110	81	110	PPC	λ / Δ	3x16	2X5	10	75		1320,0	264,2
NM10/125	92	125	PPC	λ / Δ	3x16	2X5	10	75		1415,0	293,3
NM10/150	110	150	PPC	λ / Δ	3x16	2X5	10	75		1500,0	314,2
NM10/175	129	175	PPC	λ / Δ	3x25	2X5	10	85		1590,0	344,3
NM10/200	147	200	PPC	λ / Δ	3x25	2X5	10	85		1720,0	387,3
NM10/225	166	225	PPC	λ / Δ	3x35	2X5	10	85		1800,0	410,0
NM10/250	185	250	PPC	λ / Δ	3x35	2X5	10	85		1840,0	420,8

Standard Motor Features

- 3x380V-400V-415V - 50 Hz - 2 Poles
- Voltage Tolerance = - %10 U_N / +%6 U_N
- Motor Rotational Speed Tolerance = ± % 0,5
- Maximum Sand Amount = 50 g / m³
- Maximum Water Temperature = 30 °C
- Minimum Coolant Flow Velocity;
75 kW - 185 kW V = 0,5 m/s
- Service Factor (S.F.) = 1
- Duty Type (IEC 60034-1) = S1
- Efficiency Class (IEC 60034-30) = IE1
- Insulation Class (IEC 60085) = Y
- Cooling Type (IEC 60034-6) = IC40
- Protection Class (IEC 60034-5) = IP68
- Able to Work Vertically or Horizontally
- Rotation on Both Sides (CW / CCW)
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- GG20 Cast Iron Motor Covers
- Water Cooling System
- Filled with Water + Antifreeze (Propylene Glycol) Mixture (Freezing Point -15 ° C)
- Maximum Storage Temperature ; -15 ° C / +60 ° C
- AISI 304 Plug
- Tolerance in IEC EN 60034-1 and NEMA MG1 Standards

Optional Features

- Motor Design to Work in Different Voltage and Frequency
- PT100 Temperature Sensor
- Enamel - PE2+PA Windings Wire
- Windings Wire for Hot Water Application (Maximum 70 °C)
- Starting; Direct (D.O.L.) or Star-Delta (S-D)
- Energy Cable Length (Maximum 10 m)
- Special Casting Motor Covers (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Silicon - Silicon Mechanical Seal (IP68)
- Special Mechanical Seal Lid (AISI 304) - (AISI 316) - (Bronze ASTM B145 - 4A)
- Rubber Output Cable
- AISI 316 Motor Body
- AISI 316 Rotor Shaft End
- AISI 304 - AISI 316 Stator Flanges
- Pressure Balancer Check Valve (Bronze ASTM B145 - 4A)



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STAINLESS STEEL SUBMERSIBLE PUMP



STAINLESS STEEL SUBMERSIBLE PUMP

Mat stainless steel pump series are designed by Mat engineers using Computational Fluid Dynamics (CFD) methods. With its modern design, high efficiency and low energy consumption, as well as high quality materials, it ensures the pumps to have long life and high durability. In our company, within a wide range of products;

- **4",6",8"** and **10"** types,
- From **0** to **300 m³/h** capacity range,
- At **50 Hz (2900 rpm)** and **60 Hz (3450 rpm)** frequencies and speeds,
- The production of clean water pumps operating at a maximum head of **600 m** is made.

All pumps before shipment; they were subjected to the necessary tests according to the definitions of the standards.

In the products; “**Superior Technology and Low Energy Consumption**” are given importance.

WORKING CONDITIONS

- Clean and nonabrasive liquids
- Maximum water temperature 40 °C (Optional water temperature 70 °C)
- Liquids with a maximum sand amount of 50 g/m³

USAGE AREAS

- Municipal water supply and distribution
- Municipal water treatment
- Domestic water supply
- Irrigation in horticulture and agriculture
- Industrial applications
- Geothermal wells
- De-watering in mines and coal cookers
- Pools, fountains, etc.
- Pressure boosting
- Greenhouse and nurseries
- Food industry

ADVANTAGES

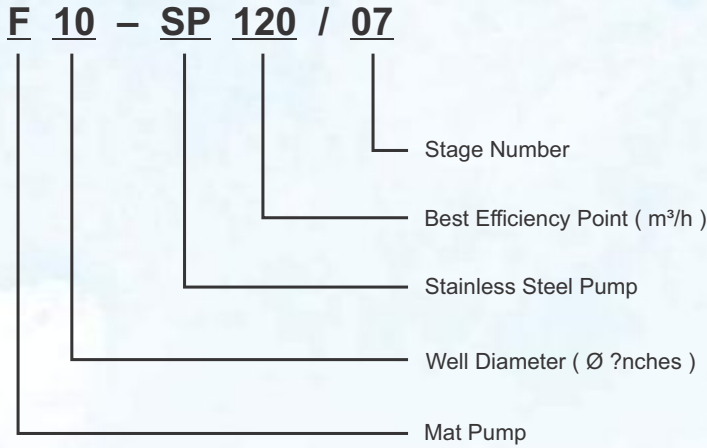
- Wide range of sizes
- High efficiency
- Low energy consumption
- State-of-the-art hydraulics design
- Long life
- High durability
- Light in weight
- Smooth surfaces
- Easy installation and service opportunities
- Wear-resistant design
- 100% high-grade stainless steel (AISI 304)
- Suction and outlet chambers single piece special precision casting
- Water lubricated bearing
- Check valve to prevent backflow of water
- Motor connection in **TS 11146** and **NEMA MG1** standards

General Features

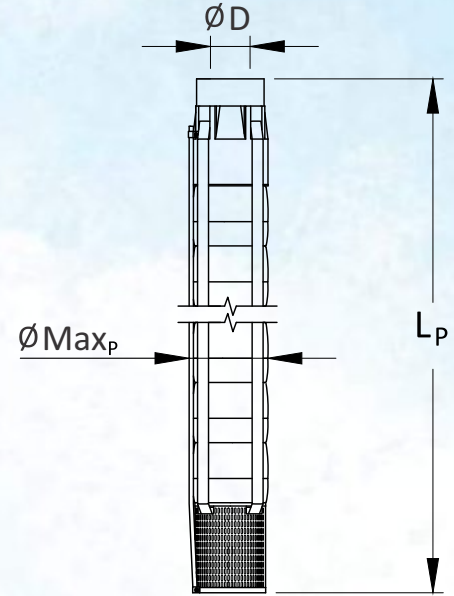
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PRODUCT TYPE KEY



Ürün Kodu / Product Code



Dimensions

STAINLESS STEEL PUMP SERIES

4"

N4-SP2
N4-SP3
N4-SP4
N4-SP8
N4-SP12

6"

N6-SP10
N6-SP15
N6-SP30
N6-SP42
N6-SP60

8"

N8-SP72
N8-SP96

10"

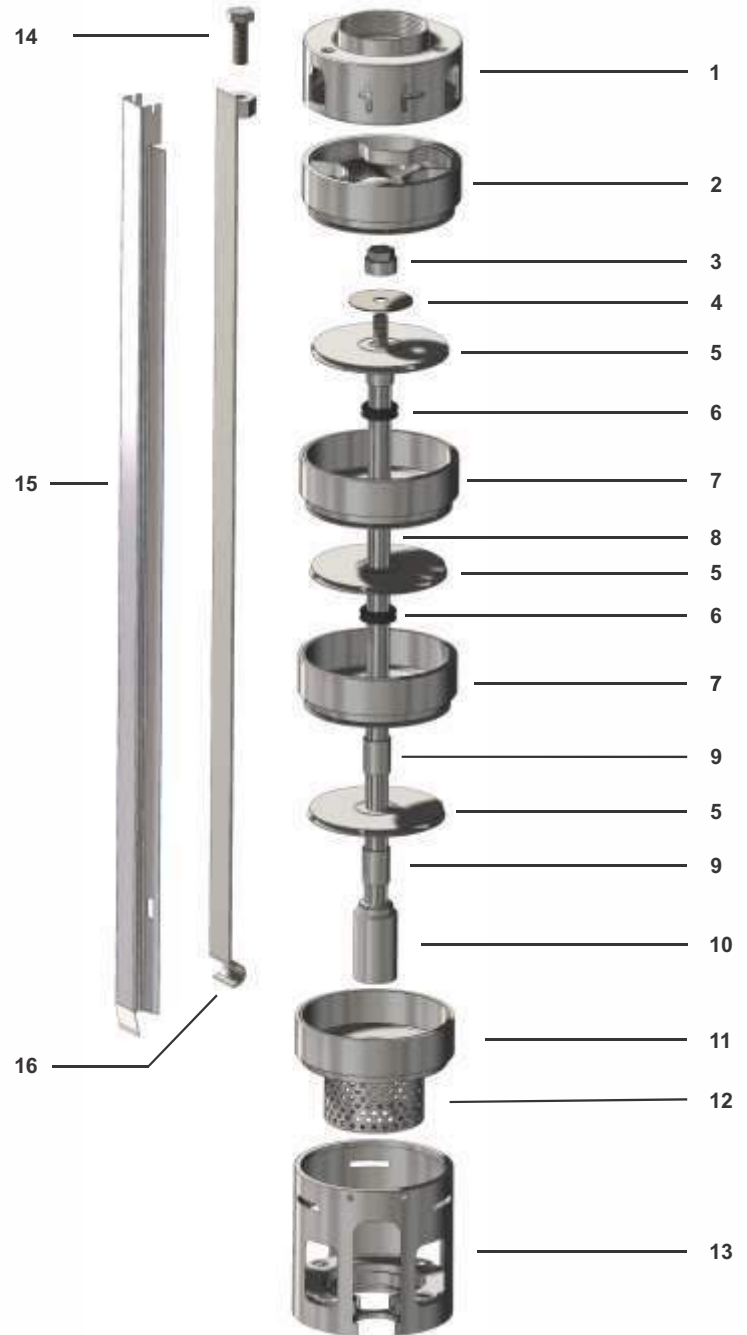
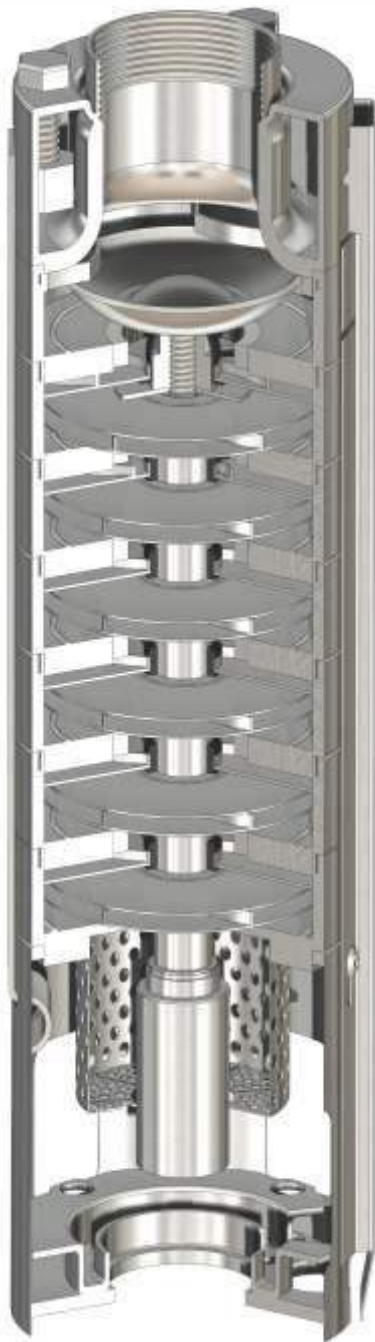
N10-SP110
N10-SP120
N10-SP160
N10-SP210

RADIAL FLOW PUMPS

N4-SP2, N4-SP3, N4-SP4, N4-SP8, N6-SP10, N6-SP15

MIXED FLOW PUMPS

N4-SP12, N6-SP30, N6-SP42, N6-SP60, N8-SP72, N8-SP96,
N10-SP110, N10-SP120, N10-SP160, N10-SP210



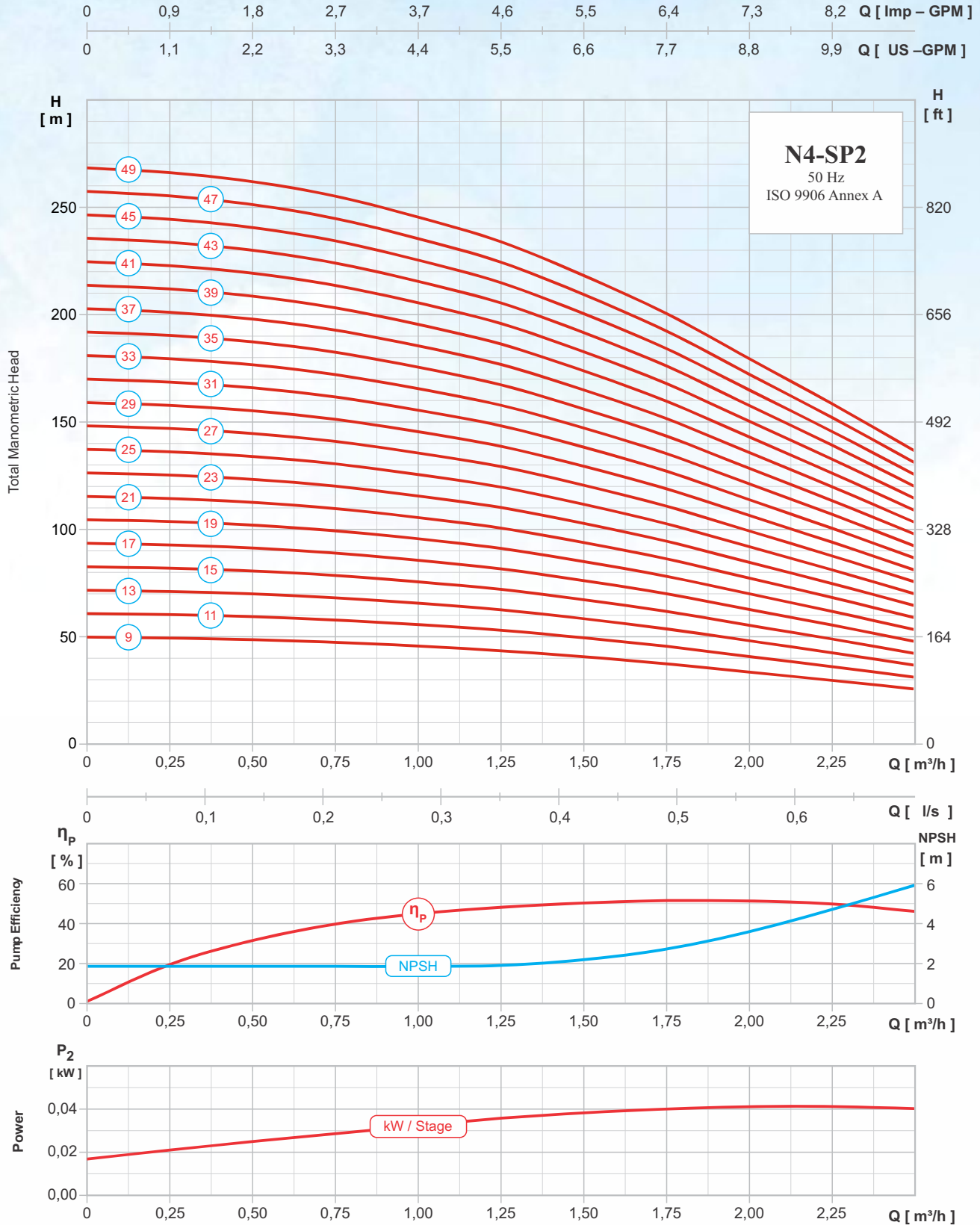
Part List



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	Part Name	Material
1	Valve Casing	AISI 304
2	Top Diffuser	AISI 304
3	Lock Nut	AISI 304
4	Washer for Stop Ring	AISI 304
5	Impeller	AISI 304
6	Diffuser Bearing with Sand Channels	RUBBER (NBR)
7	Diffuser	AISI 304
8	Shaft	AISI 420
9	Spacer	AISI 304
10	Coupling	AISI 420
11	Bottom Diffuser	AISI 304
12	Strainer	AISI 304
13	Suction Case	AISI 304
14	Strap Bolt	AISI 304
15	Cable Guard	AISI 304
16	Strap	AISI 304

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity									
								[Imp - GPM]	0	2,7	3,7	4,6	5,5	6,4	7,3	8,2	9,2
								[US - GPM]	0	3,3	4,4	5,5	6,6	7,7	8,8	9,9	11,0
								[l/s]	0	0,21	0,28	0,35	0,42	0,49	0,56	0,63	0,69
[kW]	[HP]	Ø Max _p	Ø D	L _p	W _p	[m³/h]	0	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50		
N4-SP2 / 09	FM4	0,37	0,5	Ø 98	Rp 1 1/4 (1 1/4" Inside Threaded 11 TPI)	356	3,0	Total Manometric Head [m]	49	47	45	43	40	37	33	29	25
N4-SP2 / 10	FM4	0,55	0,75			377	3,2		55	52	50	48	45	41	37	32	28
N4-SP2 / 11	FM4	0,55	0,75			398	3,4		60	57	55	53	49	45	40	36	31
N4-SP2 / 12	FM4	0,55	0,75			419	3,6		66	63	60	57	53	49	44	39	33
N4-SP2 / 13	FM4	0,55	0,75			440	3,8		71	68	65	62	58	53	48	42	36
N4-SP2 / 14	FM4	0,75	1			461	4,0		77	73	70	67	62	57	51	45	39
N4-SP2 / 15	FM4	0,75	1			482	4,1		82	78	75	72	67	61	55	48	42
N4-SP2 / 16	FM4	0,75	1			503	4,3		88	83	80	76	71	65	59	52	44
N4-SP2 / 17	FM4	0,75	1			524	4,5		93	89	85	81	76	70	62	55	47
N4-SP2 / 18	FM4	0,75	1			545	4,7		99	94	90	86	80	74	66	58	50
N4-SP2 / 19	FM4	1,1	1,5			566	4,9		104	99	95	91	85	78	70	61	53
N4-SP2 / 20	FM4	1,1	1,5			587	5,1		110	104	100	96	89	82	73	65	56
N4-SP2 / 21	FM4	1,1	1,5			608	5,3		115	109	105	100	94	86	77	68	58
N4-SP2 / 22	FM4	1,1	1,5			629	5,5		121	115	110	105	98	90	81	71	61
N4-SP2 / 23	FM4	1,1	1,5			650	5,7		126	120	115	110	102	94	84	74	64
N4-SP2 / 24	FM4	1,1	1,5			671	5,9		132	125	120	115	107	98	88	78	67
N4-SP2 / 25	FM4	1,1	1,5			692	6,0		137	130	125	119	111	102	92	81	70
N4-SP2 / 26	FM4	1,1	1,5			713	6,2		143	136	130	124	116	106	95	84	72
N4-SP2 / 27	FM4	1,5	2			734	6,4		148	141	135	129	120	111	99	87	75
N4-SP2 / 28	FM4	1,5	2			755	6,6		154	146	140	134	125	115	103	90	78
N4-SP2 / 29	FM4	1,5	2			776	6,8		159	151	145	139	129	119	106	94	81
N4-SP2 / 30	FM4	1,5	2			797	7,0		164	156	150	143	134	123	110	97	83
N4-SP2 / 31	FM4	1,5	2			818	7,2		170	162	155	148	138	127	114	100	86
N4-SP2 / 32	FM4	1,5	2			839	7,4		175	167	160	153	143	131	117	103	89
N4-SP2 / 33	FM4	1,5	2			883	9,7		181	172	165	158	147	135	121	107	92
N4-SP2 / 34	FM4	1,5	2			904	10,0		186	177	170	162	151	139	125	110	95
N4-SP2 / 35	FM4	1,5	2			925	10,2		192	182	175	167	156	143	128	113	97
N4-SP2 / 36	FM4	1,5	2			946	10,5		197	188	180	172	160	147	132	116	100
N4-SP2 / 37	FM4	2,2	3			967	10,7		203	193	185	177	165	151	135	120	103
N4-SP2 / 38	FM4	2,2	3			988	11,0		208	198	191	182	169	156	139	123	106
N4-SP2 / 39	FM4	2,2	3			1009	11,2		214	203	196	186	174	160	143	126	108
N4-SP2 / 40	FM4	2,2	3			1030	11,5		219	209	201	191	178	164	146	129	111
N4-SP2 / 41	FM4	2,2	3			1051	11,7		225	214	206	196	183	168	150	132	114
N4-SP2 / 42	FM4	2,2	3			1072	12,0		230	219	211	201	187	172	154	136	117
N4-SP2 / 43	FM4	2,2	3			1093	12,2		236	224	216	205	192	176	157	139	120
N4-SP2 / 44	FM4	2,2	3			1114	12,5		241	229	221	210	196	180	161	142	122
N4-SP2 / 45	FM4	2,2	3			1135	12,7		247	235	226	215	200	184	165	145	125
N4-SP2 / 46	FM4	2,2	3			1156	13,0		252	240	231	220	205	188	168	149	128
N4-SP2 / 47	FM4	2,2	3			1177	13,2		258	245	236	225	209	192	172	152	131
N4-SP2 / 48	FM4	2,2	3			1198	13,5		263	250	241	229	214	196	176	155	133
N4-SP2 / 49	FM4	2,2	3			1219	13,7		269	255	246	234	218	201	179	158	136

Performance Tolerances : EN ISO 9906

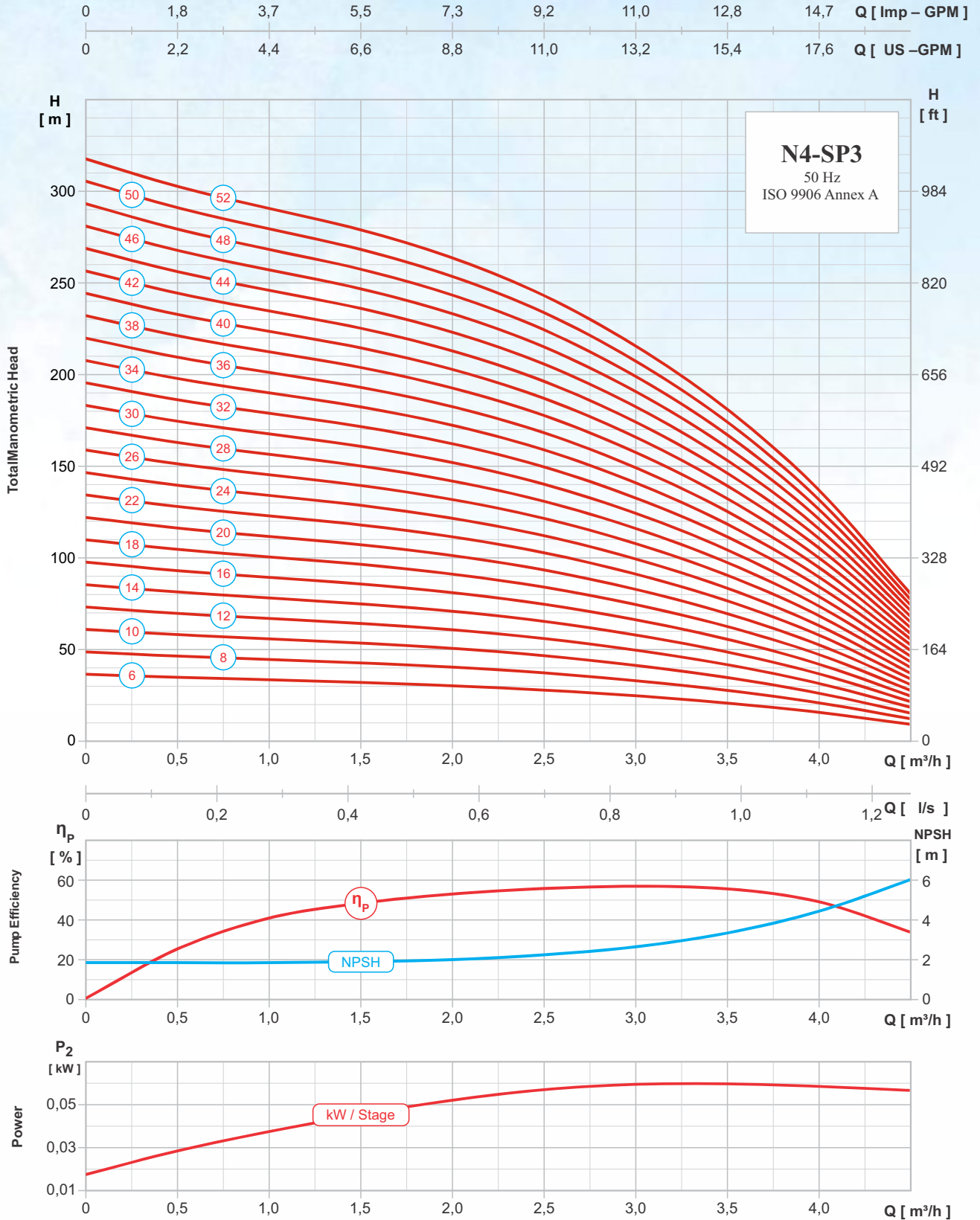
Working Conditions

Operating Voltage : 1 x 220V - 230V (- %10 / +%6)
 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 12 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 nematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity									
								[Imp - GPM]	0	3,7	5,5	7,3	9,2	11,0	12,8	14,7	16,5
		[US - GPM]	0	4,4	6,6	8,8	11,0	13,2	15,4	17,6	19,8						
		P_N	$\varnothing Max_p$	$\varnothing D$	L_p	W_p	[l/s]	[m³/h]	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5
[kW]	[HP]	[mm]	[?nch]	[mm]	[kg]	[m³/h]	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5		
N4-SP3 / 06	FM4	0,37	0,5	Ø 98	Rp 1/4 (1/4" Inside Threaded 11 TPI)	293	2,4	Total Manometric Head [m]	37	34	32	30	28	25	21	16	9
N4-SP3 / 07	FM4	0,55	0,75			314	2,6		43	39	38	36	33	29	24	19	11
N4-SP3 / 08	FM4	0,55	0,75			335	2,8		49	45	43	41	37	33	28	21	12
N4-SP3 / 09	FM4	0,55	0,75			356	3,0		55	50	48	46	42	37	31	24	14
N4-SP3 / 10	FM4	0,75	1			377	3,2		61	56	54	51	47	42	35	26	16
N4-SP3 / 11	FM4	0,75	1			398	3,4		67	62	59	56	52	46	38	29	17
N4-SP3 / 12	FM4	0,75	1			419	3,5		73	67	64	61	56	50	42	32	19
N4-SP3 / 13	FM4	1,1	1,5			440	3,7		80	73	70	66	61	54	45	34	20
N4-SP3 / 14	FM4	1,1	1,5			461	3,9		86	78	75	71	66	58	49	37	22
N4-SP3 / 15	FM4	1,1	1,5			482	4,1		92	84	81	76	70	62	52	40	23
N4-SP3 / 16	FM4	1,1	1,5			503	4,3		98	90	86	81	75	66	56	42	25
N4-SP3 / 17	FM4	1,1	1,5			524	4,5		104	95	91	86	80	71	59	45	26
N4-SP3 / 18	FM4	1,1	1,5			545	4,7		110	101	97	91	84	75	63	48	28
N4-SP3 / 19	FM4	1,5	2			566	4,9		116	106	102	96	89	79	66	50	30
N4-SP3 / 20	FM4	1,5	2			587	5,1		122	112	107	102	94	83	70	53	31
N4-SP3 / 21	FM4	1,5	2			608	5,3		128	118	113	107	98	87	73	56	33
N4-SP3 / 22	FM4	1,5	2			629	5,4		135	123	118	112	103	91	77	58	34
N4-SP3 / 23	FM4	1,5	2			650	5,6		141	129	124	117	108	96	80	61	36
N4-SP3 / 24	FM4	1,5	2			671	5,8		147	134	129	122	112	100	84	63	37
N4-SP3 / 25	FM4	1,5	2			692	6,0		153	140	134	127	117	104	87	66	39
N4-SP3 / 26	FM4	2,2	3			713	6,2		159	146	140	132	122	108	91	69	41
N4-SP3 / 27	FM4	2,2	3			734	6,4		165	151	145	137	126	112	94	71	42
N4-SP3 / 28	FM4	2,2	3			755	6,6		171	157	150	142	131	116	98	74	44
N4-SP3 / 29	FM4	2,2	3			776	6,8		177	162	156	147	136	120	101	77	45
N4-SP3 / 30	FM4	2,2	3			797	7,0		183	168	161	152	140	125	105	79	47
N4-SP3 / 31	FM4	2,2	3			818	7,2		190	173	167	157	145	129	108	82	48
N4-SP3 / 32	FM4	2,2	3			839	7,3		196	179	172	162	150	133	112	85	50
N4-SP3 / 33	FM4	2,2	3			883	9,7		202	185	177	168	155	137	115	87	51
N4-SP3 / 34	FM4	2,2	3			904	10,0		208	190	183	173	159	141	119	90	53
N4-SP3 / 35	FM4	3	4			925	10,2		214	196	188	178	164	145	122	93	55
N4-SP3 / 36	FM4	3	4			946	10,5		220	201	193	183	169	150	126	95	56
N4-SP3 / 37	FM4	3	4			967	10,7		226	207	199	188	173	154	129	98	58
N4-SP3 / 38	FM4	3	4			988	11,0		232	213	204	193	178	158	133	100	59
N4-SP3 / 39	FM4	3	4			1009	11,2		239	218	209	198	183	162	136	103	61
N4-SP3 / 40	FM4	3	4			1030	11,5		245	224	215	203	187	166	140	106	62
N4-SP3 / 42	FM4	3	4			1072	12,0		257	235	226	213	197	174	147	111	65
N4-SP3 / 44	FM4	3	4			1114	12,5		269	246	236	223	206	183	154	116	69
N4-SP3 / 46	FM4	3	4			1156	13,0		281	257	247	234	215	191	161	122	72
N4-SP3 / 48	FM4	3	4			1198	13,5		294	269	258	244	225	199	168	127	75
N4-SP3 / 50	FM4	4	5,5			1240	14,0		306	280	269	254	234	208	175	132	78
N4-SP3 / 52	FM4	4	5,5			1282	14,5		318	291	279	264	244	216	182	137	81

Performance Tolerances : EN ISO 9906

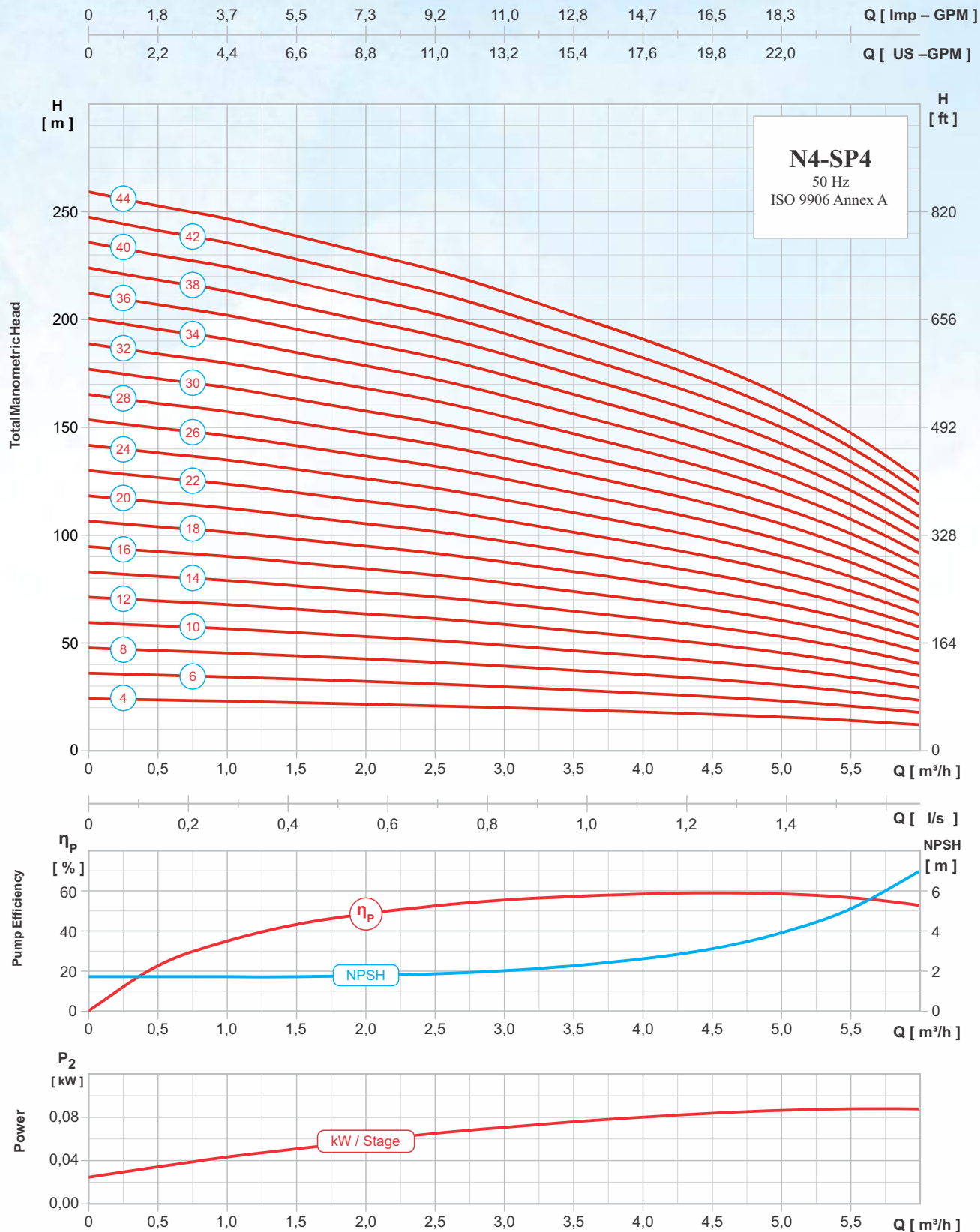
Working Conditions

Operating Voltage	: 1 x 220V - 230V (- %10 / +%6) : 3 x 380V - 400V - 415V (- %10 / +%6)
Frequency	: 50 Hz
Max. Water Temp.	: 40 °C
Max. Sand Amount	: 50 g / m³
Rotation	: Counterclockwise
Rotational Speed	: 2900 rpm
Shaft Diameter	: Ø 12 mm
Shaft End	: According to NEMA Standard

Performance Parameters

Atmospheric Pressure	: 1 Bar
Water Temp.	: 15 °C
Kinematic Viscosity	: 1 mm² / s
Specific Density	: 1000 kg / m³

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity									
								[Imp - GPM]	0	3,7	7,3	11,0	12,8	14,7	16,5	18,3	20,2
								[US - GPM]	0	4,4	8,8	13,2	15,4	17,6	19,8	22,0	24,2
								[l/s]	0	0,28	0,56	0,83	0,97	1,11	1,25	1,39	1,53
[kW]	[HP]	Ø Max _p	Ø D	L _p	W _p	[m³/h]	0	1,0	2,0	3,0	3,5	4,0	4,5	5,0	5,5		
N4-SP4 / 04	FM4	0,37	0,5	Ø 98	Rp 1 1/2" (1 1/2" Inside Threaded 11 TPI)	251	2,0	Total Manometric Head [m]	24	22	21	19	18	17	16	15	13
N4-SP4 / 05	FM4	0,55	0,75			272	2,2		29	28	26	24	23	22	20	19	17
N4-SP4 / 06	FM4	0,55	0,75			293	2,4		35	34	32	29	28	26	24	23	20
N4-SP4 / 07	FM4	0,75	1			314	2,6		41	39	37	34	32	30	28	26	23
N4-SP4 / 08	FM4	0,75	1			335	2,8		47	45	42	39	37	35	33	30	27
N4-SP4 / 09	FM4	1,1	1,5			356	3,0		53	51	47	44	41	39	37	34	30
N4-SP4 / 10	FM4	1,1	1,5			377	3,1		59	56	53	48	46	43	41	38	34
N4-SP4 / 11	FM4	1,1	1,5			398	3,3		65	62	58	53	50	48	45	41	37
N4-SP4 / 12	FM4	1,1	1,5			419	3,5		71	67	63	58	55	52	49	45	40
N4-SP4 / 13	FM4	1,5	2			440	3,7		77	73	68	63	60	56	53	49	44
N4-SP4 / 14	FM4	1,5	2			461	3,9		83	79	74	68	64	61	57	53	47
N4-SP4 / 15	FM4	1,5	2			482	4,1		88	84	79	73	69	65	61	56	50
N4-SP4 / 16	FM4	1,5	2			503	4,3		94	90	84	77	73	69	65	60	54
N4-SP4 / 17	FM4	1,5	2			524	4,5		100	95	89	82	78	74	69	64	57
N4-SP4 / 18	FM4	2,2	3			545	4,7		106	101	95	87	83	78	73	68	60
N4-SP4 / 19	FM4	2,2	3			566	4,9		112	107	100	92	87	82	77	71	64
N4-SP4 / 20	FM4	2,2	3			587	5,0		118	112	105	97	92	87	81	75	67
N4-SP4 / 21	FM4	2,2	3			608	5,2		124	118	110	102	96	91	85	79	70
N4-SP4 / 22	FM4	2,2	3			629	5,4		130	123	116	106	101	95	90	83	74
N4-SP4 / 23	FM4	2,2	3			650	5,6		136	129	121	111	106	100	94	86	77
N4-SP4 / 24	FM4	2,2	3			671	5,8		142	135	126	116	110	104	98	90	80
N4-SP4 / 25	FM4	3	4			692	6,0		147	140	131	121	115	109	102	94	84
N4-SP4 / 26	FM4	3	4			713	6,2		153	146	137	126	119	113	106	98	87
N4-SP4 / 27	FM4	3	4			734	6,4		159	152	142	131	124	117	110	101	91
N4-SP4 / 28	FM4	3	4			755	6,6		165	157	147	136	129	122	114	105	94
N4-SP4 / 29	FM4	3	4			776	6,8		171	163	152	140	133	126	118	109	97
N4-SP4 / 30	FM4	3	4			797	6,9		177	168	158	145	138	130	122	113	101
N4-SP4 / 31	FM4	3	4			818	7,1		183	174	163	150	142	135	126	116	104
N4-SP4 / 32	FM4	3	4			839	7,3		189	180	168	155	147	139	130	120	107
N4-SP4 / 33	FM4	3	4			868	9,6		195	185	173	160	151	143	134	124	111
N4-SP4 / 34	FM4	4	5,5			889	9,9		201	191	179	165	156	148	138	128	114
N4-SP4 / 35	FM4	4	5,5			910	10,1		206	196	184	169	161	152	142	131	117
N4-SP4 / 36	FM4	4	5,5			931	10,4		212	202	189	174	165	156	146	135	121
N4-SP4 / 37	FM4	4	5,5			952	10,6		218	208	194	179	170	161	151	139	124
N4-SP4 / 38	FM4	4	5,5			973	10,9		224	213	200	184	174	165	155	143	127
N4-SP4 / 39	FM4	4	5,5			994	11,1		230	219	205	189	179	169	159	146	131
N4-SP4 / 40	FM4	4	5,5			1015	11,4		236	225	210	194	184	174	163	150	134
N4-SP4 / 41	FM4	4	5,5			1036	11,6		242	230	215	198	188	178	167	154	137
N4-SP4 / 42	FM4	4	5,5			1057	11,9		248	236	221	203	193	182	171	158	141
N4-SP4 / 43	FM4	4	5,5			1078	12,1		254	241	226	208	197	187	175	161	144
N4-SP4 / 44	FM4	4	5,5			1099	12,4		259	247	231	213	202	191	179	165	148

Performance Tolerances : EN ISO 9906

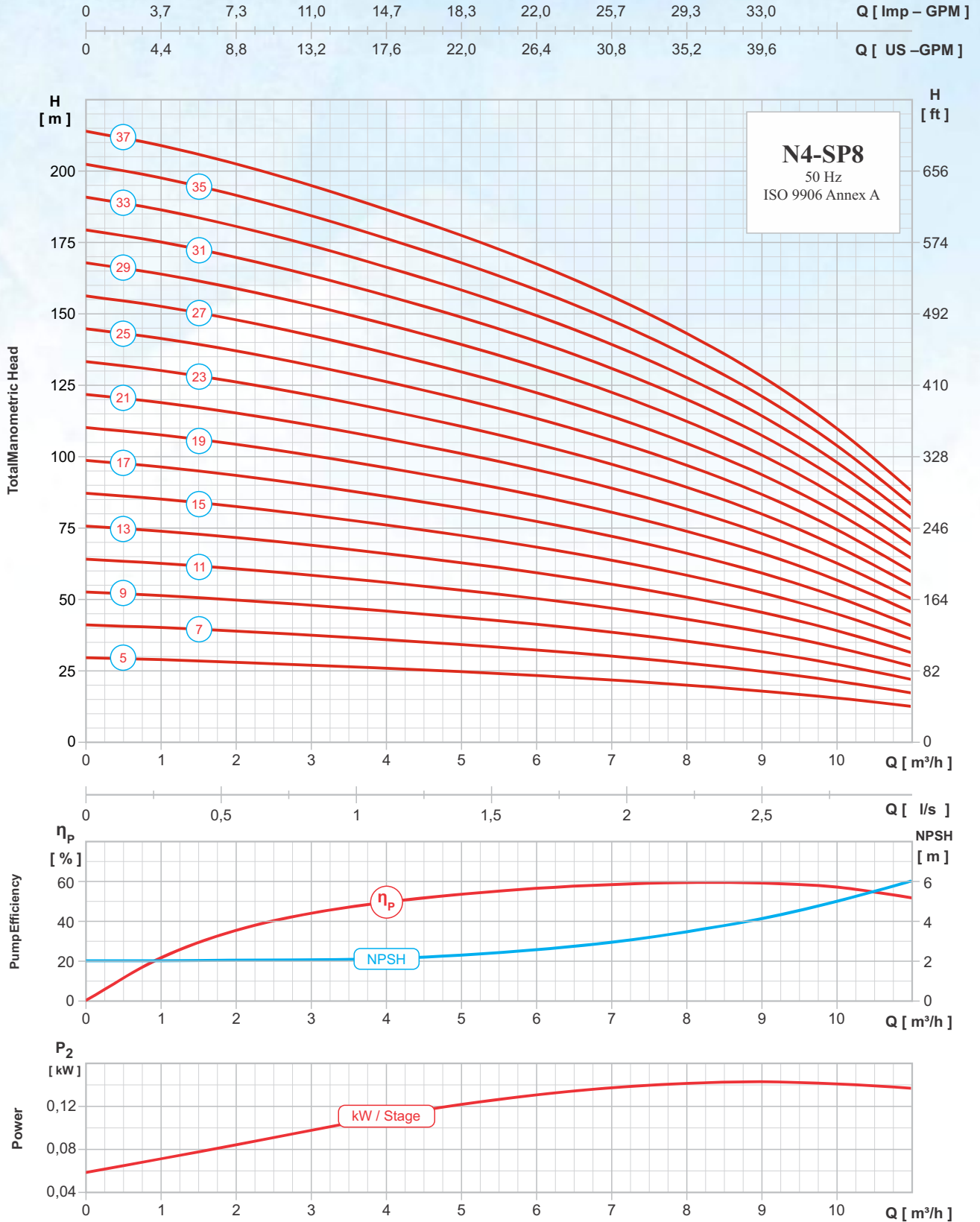
Working Conditions

Operating Voltage : 1 x 220V - 230V (- %10 / +%6)
 : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 12 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
								[Imp - GPM]	0	7,3	14,7	22,0	25,7	29,3	33,0	36,7	40,3	
		[US - GPM]	0	8,8	17,6	26,4	30,8	35,2	39,6	44,0	48,4							
		[l/s]	0	0,56	1,11	1,67	1,94	2,22	2,50	2,78	3,06							
P _N		Ø Max _p	Ø D	L _p	W _p	[H] Total Manometric Head [m]												
[kW]	[HP]	[mm]	[?nch]	[mm]	[kg]	0	2	4	6	7	8	9	10	11				
N4-SP8 / 05	FM4	0,75	1	Ø 98	Rp 2 (2" Inside Threaded 11 TPI)	412	4,3	29	27	25	23	21	19	17	15	12		
N4-SP8 / 06	FM4	1,1	1,5			454	4,8	35	33	30	27	25	23	21	18	14		
N4-SP8 / 07	FM4	1,1	1,5			496	5,3	40	38	35	32	30	27	24	21	17		
N4-SP8 / 08	FM4	1,5	2			538	5,8	46	44	40	36	34	31	28	24	19		
N4-SP8 / 09	FM4	1,5	2			580	6,3	52	49	45	41	38	35	31	27	21		
N4-SP8 / 10	FM4	1,5	2			622	6,8	58	55	50	45	42	39	35	30	24		
N4-SP8 / 11	FM4	2,2	3			664	7,3	64	60	55	50	46	43	38	33	26		
N4-SP8 / 12	FM4	2,2	3			706	7,8	69	66	60	54	51	46	42	36	29		
N4-SP8 / 13	FM4	2,2	3			748	8,3	75	71	66	59	55	50	45	39	31		
N4-SP8 / 14	FM4	2,2	3			790	8,8	81	77	71	63	59	54	49	42	33		
N4-SP8 / 15	FM4	2,2	3			832	9,3	87	82	76	68	63	58	52	45	36		
N4-SP8 / 16	FM4	3	4			874	9,8	93	88	81	72	68	62	55	48	38		
N4-SP8 / 17	FM4	3	4			916	10,3	98	93	86	77	72	66	59	51	40		
N4-SP8 / 18	FM4	3	4			958	10,8	104	99	91	81	76	70	62	54	43		
N4-SP8 / 19	FM4	3	4			1000	11,3	110	104	96	86	80	74	66	56	45		
N4-SP8 / 20	FM4	3	4			1042	11,8	116	109	101	91	84	77	69	59	48		
N4-SP8 / 21	FM4	4	5,5			1084	12,3	121	115	106	95	89	81	73	62	50		
N4-SP8 / 22	FM4	4	5,5			1126	12,8	127	120	111	100	93	85	76	65	52		
N4-SP8 / 23	FM4	4	5,5			1168	13,3	133	126	116	104	97	89	80	68	55		
N4-SP8 / 24	FM4	4	5,5			1210	13,8	139	131	121	109	101	93	83	71	57		
N4-SP8 / 25	FM4	4	5,5			1252	14,3	145	137	126	113	106	97	87	74	59		
N4-SP8 / 26	FM4	4	5,5			1294	14,8	150	142	131	118	110	101	90	77	62		
N4-SP8 / 27	FM4	4	5,5			1336	15,3	156	148	136	122	114	104	94	80	64		
N4-SP8 / 28	FM4	5,5	7,5			1378	15,8	162	153	141	127	118	108	97	83	67		
N4-SP8 / 29	FM4	5,5	7,5			1420	16,3	168	159	146	131	122	112	100	86	69		
N4-SP8 / 30	FM4	5,5	7,5			1462	16,8	174	164	151	136	127	116	104	89	71		
N4-SP8 / 31	FM4	5,5	7,5			1504	17,3	179	170	156	140	131	120	107	92	74		
N4-SP8 / 32	FM4	5,5	7,5			1546	17,8	185	175	161	145	135	124	111	95	76		
N4-SP8 / 33	FM4	5,5	7,5			1588	18,3	191	181	166	149	139	128	114	98	78		
N4-SP8 / 34	FM4	5,5	7,5			1630	18,8	197	186	171	154	144	132	118	101	81		
N4-SP8 / 35	FM4	5,5	7,5			1672	19,3	202	192	176	158	148	135	121	104	83		
N4-SP8 / 36	FM4	5,5	7,5			1714	19,8	208	197	181	163	152	139	125	107	86		
N4-SP8 / 37	FM4	5,5	7,5			1756	20,3	214	203	186	167	156	143	128	110	88		

Performance Tolerances : EN ISO 9906

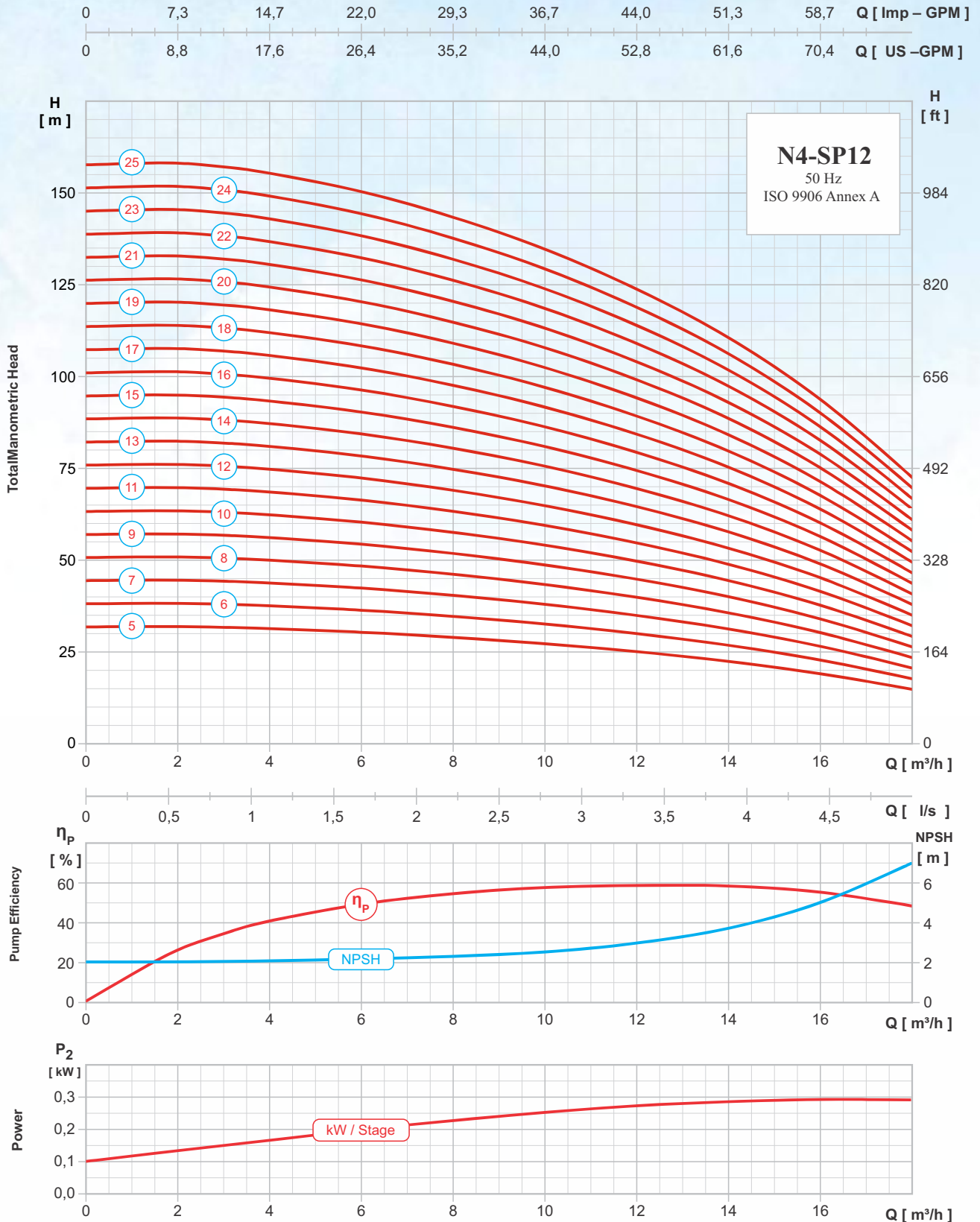
Working Conditions

Operating Voltage : 1 x 220V - 230V (- %10 / +%6)
 : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 12 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity									
								[Imp - GPM]	0	14,7	22,0	29,3	36,7	44,0	51,3	58,7	66,0
		[US - GPM]	0	17,6	26,4	35,2	44,0	52,8	61,6	70,4	79,3						
		[l/s]	0	1,11	1,67	2,22	2,78	3,33	3,89	4,44	5,00						
P _N		Ø Max _p	Ø D	L _p	W _p	[H] Total Manometric Head [m]											
[kW]	[HP]	[mm]	[?nch]	[mm]	[kg]	0	4	6	8	10	12	14	16	18			
N4-SP12 / 05	FM4	1,5	2	Ø 98	Rp 2 (2" Inside Threaded 11 TPI)	505	5,0	Total Manometric Head [m]	32	31	30	29	27	25	22	19	15
N4-SP12 / 06	FM4	2,2	3			570	5,7		38	37	36	34	32	30	27	23	17
N4-SP12 / 07	FM4	2,2	3			635	6,3		44	44	42	40	38	35	31	26	20
N4-SP12 / 08	FM4	3	4			700	7,0		51	50	48	46	43	40	35	30	23
N4-SP12 / 09	FM4	3	4			765	7,6		57	56	54	52	49	45	40	34	26
N4-SP12 / 10	FM4	3	4			830	8,2		63	62	60	57	54	50	44	38	29
N4-SP12 / 11	FM4	4	5,5			895	8,9		69	68	66	63	59	55	49	41	32
N4-SP12 / 12	FM4	4	5,5			960	9,5		76	75	72	69	65	60	53	45	35
N4-SP12 / 13	FM4	4	5,5			1025	10,2		82	81	78	75	70	64	58	49	38
N4-SP12 / 14	FM4	5,5	7,5			1090	10,8		88	87	84	80	76	69	62	53	41
N4-SP12 / 15	FM4	5,5	7,5			1155	11,4		95	93	90	86	81	74	66	56	44
N4-SP12 / 16	FM4	5,5	7,5			1220	12,1		101	100	96	92	86	79	71	60	47
N4-SP12 / 17	FM4	5,5	7,5			1285	12,7		107	106	102	98	92	84	75	64	49
N4-SP12 / 18	FM4	5,5	7,5			1350	13,4		114	112	108	103	97	89	80	68	52
N4-SP12 / 19	FM4	7,5	10			1415	14,0		120	118	114	109	103	94	84	71	55
N4-SP12 / 20	FM4	7,5	10			1480	14,6		126	124	120	115	108	99	89	75	58
N4-SP12 / 21	FM4	7,5	10			1545	15,3		133	131	127	121	113	104	93	79	61
N4-SP12 / 22	FM4	7,5	10			1610	15,9		139	137	133	126	119	109	98	83	64
N4-SP12 / 23	FM4	7,5	10			1675	16,6		145	143	139	132	124	114	102	86	67
N4-SP12 / 24	FM4	7,5	10			1740	17,2		152	149	145	138	130	119	106	90	70
N4-SP12 / 25	FM4	7,5	10			1805	17,8		158	156	151	144	135	124	111	94	73

Performance Tolerances : EN ISO 9906

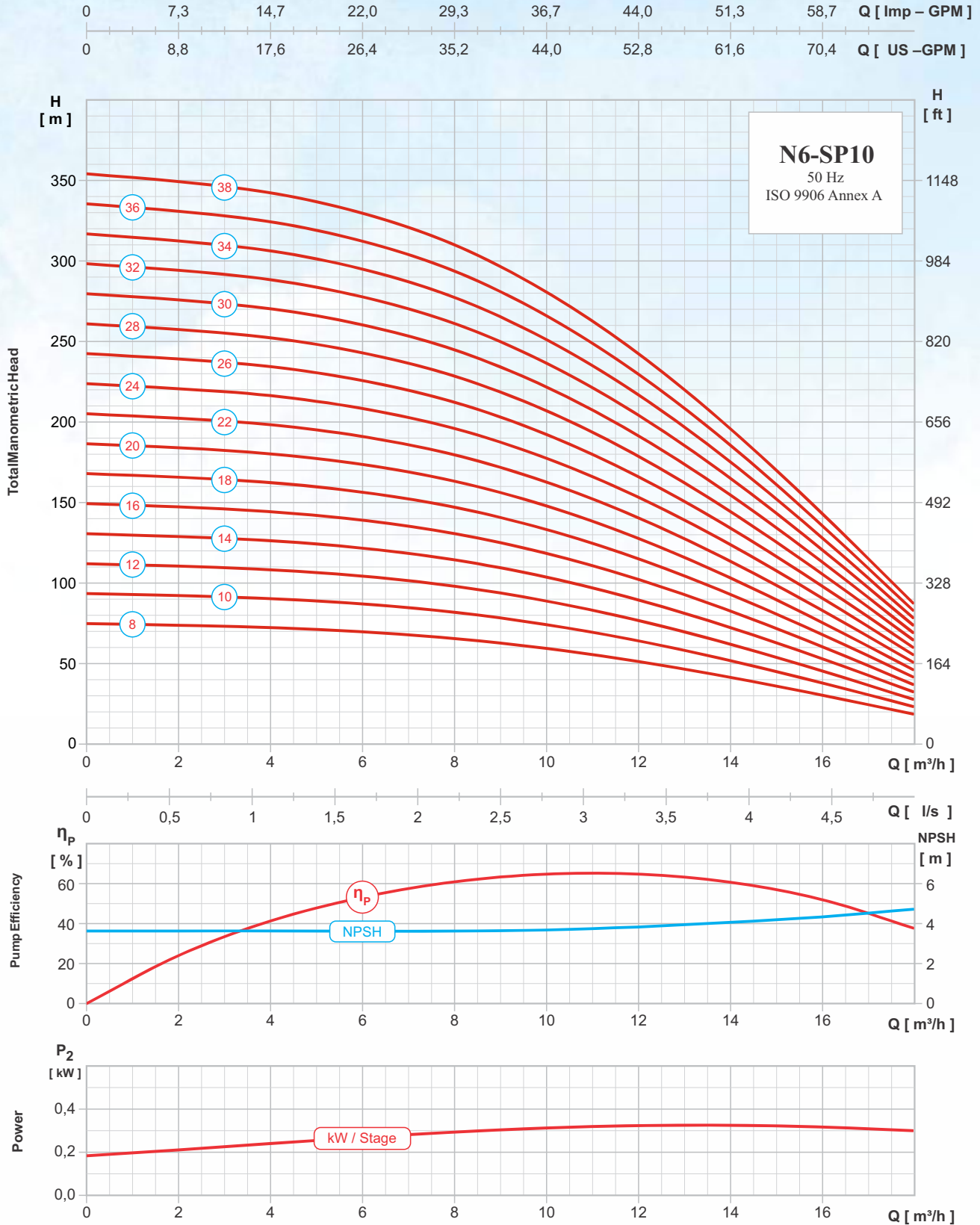
Working Conditions

Operating Voltage : 1 x 220V - 230V (- %10 / +%6)
 : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 12 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

1x220 V - 3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
		[kW]	[HP]						[Imp - GPM]	0	7,3	14,7	22,0	29,3	36,7	44,0	51,3	58,7	66,0
		P_N	I_N	$\varnothing Max_P$	$\varnothing D$	L_P	W_P	[US - GPM]	0	8,8	17,6	26,4	35,2	44,0	52,8	61,6	70,4	79,3	
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[l/s]	0	0,56	1,11	1,67	2,22	2,78	3,33	3,89	4,44	5,00
									[m³/h]	0	2	4	6	8	10	12	14	16	18
N6-SP10 / 08	FM6	4,5	6	11,6	Ø 138	Rp 2 (2 " Inside Threaded 11 TPI)	765	18	Total Manometric Head [m]	75	74	72	69	65	59	51	41	30	18
N6-SP10 / 09	FM6	4,5	6	11,6			826	20		84	83	81	78	74	67	58	47	34	21
N6-SP10 / 10	FM6	4,5	6	11,6			886	21		93	92	90	87	82	74	64	52	38	23
N6-SP10 / 11	FM6	4,5	6	11,6			947	23		103	101	99	96	90	81	70	57	42	25
N6-SP10 / 12	FM6	5,5	7,5	13,3			1007	24		112	110	108	104	98	89	77	62	45	28
N6-SP10 / 13	FM6	5,5	7,5	13,3			1068	26		121	120	117	113	106	96	83	67	49	30
N6-SP10 / 14	FM6	5,5	7,5	13,3			1128	27		131	129	126	122	114	104	90	72	53	32
N6-SP10 / 15	FM6	5,5	7,5	13,3			1189	29		140	138	135	130	123	111	96	78	57	35
N6-SP10 / 16	FM6	7,5	10	17,7			1249	30		149	147	144	139	131	118	102	83	61	37
N6-SP10 / 17	FM6	7,5	10	17,7			1310	31		159	156	153	148	139	126	109	88	64	39
N6-SP10 / 18	FM6	7,5	10	17,7			1370	33		168	166	162	156	147	133	115	93	68	41
N6-SP10 / 19	FM6	7,5	10	17,7			1431	34		177	175	171	165	155	141	121	98	72	44
N6-SP10 / 20	FM6	7,5	10	17,7			1491	36		187	184	180	174	163	148	128	103	76	46
N6-SP10 / 21	FM6	7,5	10	17,7			1552	37		196	193	189	182	172	155	134	109	79	48
N6-SP10 / 22	FM6	9,3	12,5	21,4			1612	39		205	202	198	191	180	163	141	114	83	51
N6-SP10 / 23	FM6	9,3	12,5	21,4			1673	40		215	212	207	200	188	170	147	119	87	53
N6-SP10 / 24	FM6	9,3	12,5	21,4			1733	42		224	221	216	208	196	178	153	124	91	55
N6-SP10 / 25	FM6	9,3	12,5	21,4			1794	43		233	230	225	217	204	185	160	129	95	58
N6-SP10 / 26	FM6	9,3	12,5	21,4			1854	44		242	239	234	226	212	192	166	134	98	60
N6-SP10 / 27	FM6	11	15	25,2			1915	46		252	248	243	234	221	200	173	140	102	62
N6-SP10 / 28	FM6	11	15	25,2			1975	47		261	258	252	243	229	207	179	145	106	64
N6-SP10 / 29	FM6	11	15	25,2			2036	49		270	267	261	252	237	215	185	150	110	67
N6-SP10 / 30	FM6	11	15	25,2			2096	50		280	276	270	260	245	222	192	155	113	69
N6-SP10 / 31	FM6	13	17,5	29,6			2157	52		289	285	279	269	253	229	198	160	117	71
N6-SP10 / 32	FM6	13	17,5	29,6			2217	53		298	294	289	278	261	237	205	165	121	74
N6-SP10 / 33	FM6	13	17,5	29,6			2278	55		308	304	298	287	270	244	211	171	125	76
N6-SP10 / 34	FM6	13	17,5	29,6			2338	56		317	313	307	295	278	252	217	176	129	78
N6-SP10 / 35	FM6	13	17,5	29,6			2399	57		326	322	316	304	286	259	224	181	132	81
N6-SP10 / 36	FM6	13	17,5	29,6			2459	59		336	331	325	313	294	266	230	186	136	83
N6-SP10 / 37	FM6	13	17,5	29,6			2520	60		345	340	334	321	302	274	237	191	140	85
N6-SP10 / 38	FM6	15	20	33,1			2580	62		354	349	343	330	310	281	243	196	144	88

Performance Tolerances : EN ISO 9906

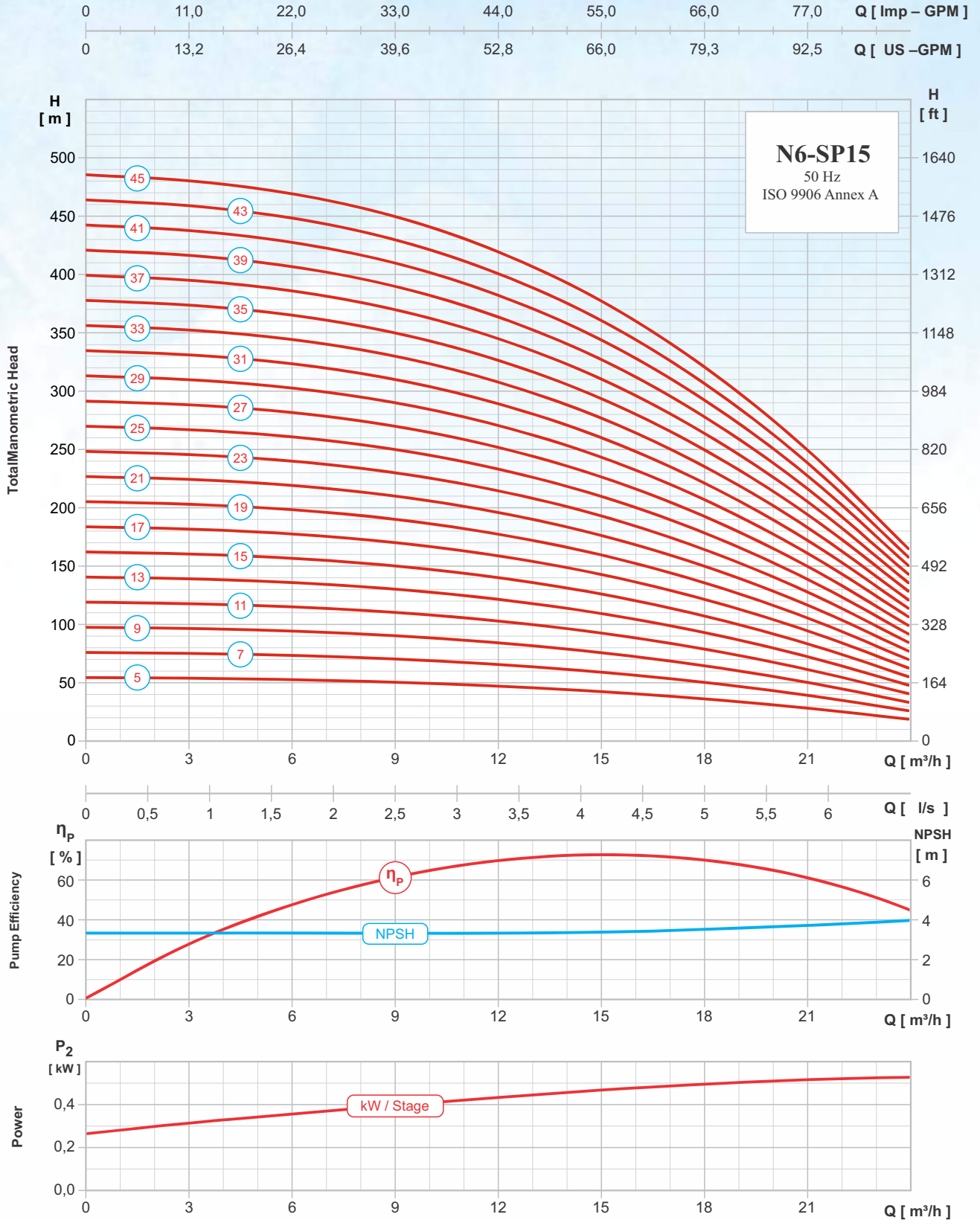
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 20 mm
 Shaft End : According to NEMA Standard

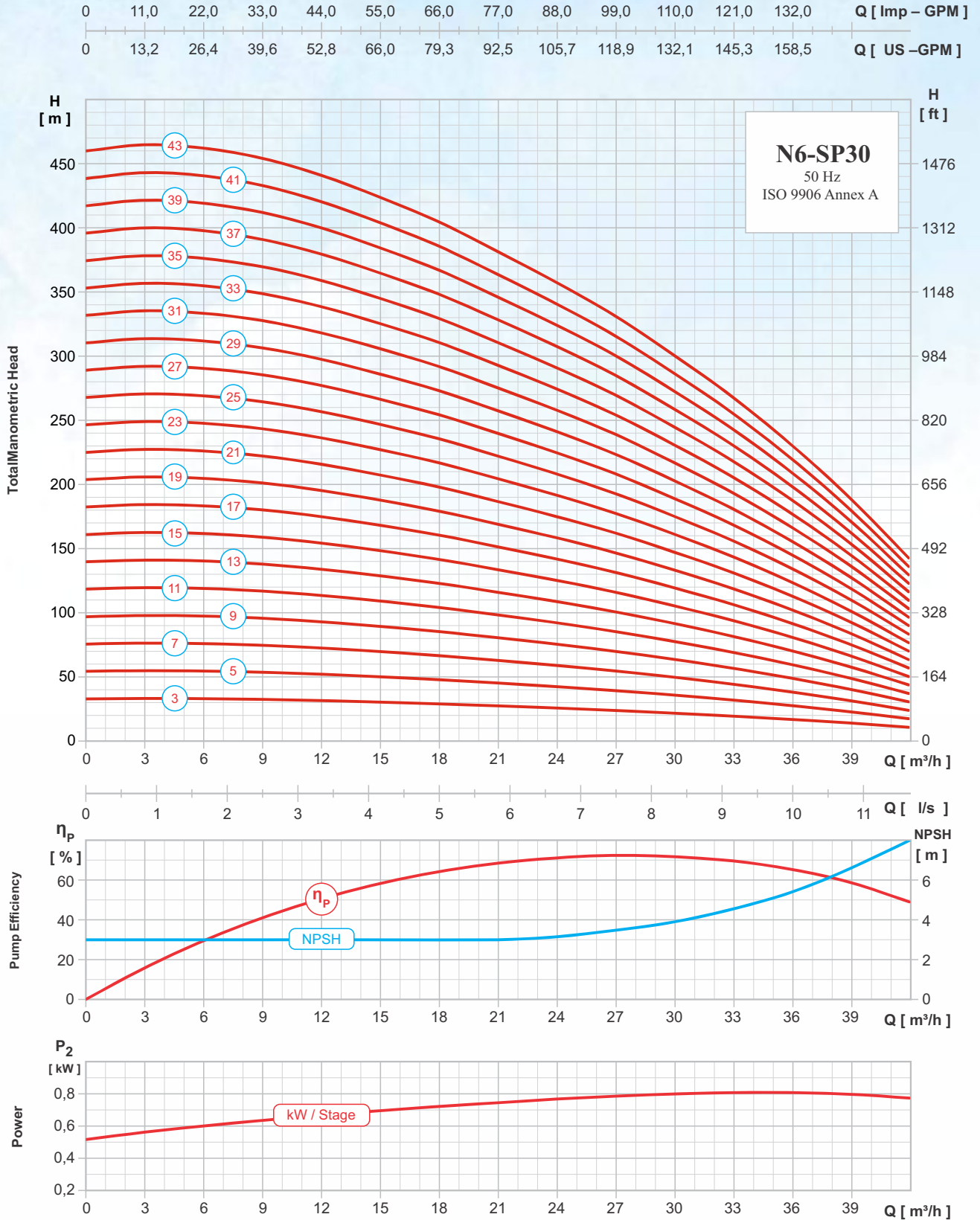
Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Performance Curves



Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
		P _N	I _N						Ø Max _p	Ø D	L _p	W _p	[Imp - GPM]	0	33,0	55,0	77,0	88,0	99,0
				[US - GPM]	0	39,6	66,0	92,5					105,7	118,9	132,1	145,3	158,5	171,7	
				[l/s]	0	2,5	4,2	5,8					6,7	7,5	8,3	9,2	10,0	10,8	
[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[m³/h]	0	9	15	21	24	27	30	33	36	39		
N6-SP30 / 03	FM6	3	4	7,8	Ø 138	Rp 3 (3" Inside Threaded 11 TPI)	569	14	Total Manometric Head [m]	32	32	30	27	25	23	21	19	16	13
N6-SP30 / 04	FM6	4,5	6	11,6			665	16		43	42	39	36	33	31	28	25	21	18
N6-SP30 / 05	FM6	5,5	7,5	13,3			761	18		54	53	49	44	42	39	35	31	27	22
N6-SP30 / 06	FM6	5,5	7,5	13,3			857	20		64	63	59	53	50	46	42	37	32	26
N6-SP30 / 07	FM6	7,5	10	17,7			953	22		75	74	69	62	58	54	49	44	38	31
N6-SP30 / 08	FM6	7,5	10	17,7			1049	24		86	85	79	71	67	62	56	50	43	35
N6-SP30 / 09	FM6	9,3	12,5	21,4			1145	26		96	95	89	80	75	69	63	56	48	40
N6-SP30 / 10	FM6	9,3	12,5	21,4			1241	28		107	106	99	89	83	77	70	62	54	44
N6-SP30 / 11	FM6	9,3	12,5	21,4			1337	30		118	116	109	98	92	85	77	69	59	48
N6-SP30 / 12	FM6	11	15	25,2			1433	32		129	127	118	107	100	93	84	75	64	53
N6-SP30 / 13	FM6	11	15	25,2			1529	34		139	137	128	115	108	100	91	81	70	57
N6-SP30 / 14	FM6	13	17,5	29,6			1625	36		150	148	138	124	117	108	98	87	75	62
N6-SP30 / 15	FM6	13	17,5	29,6			1721	39		161	159	148	133	125	116	105	94	81	66
N6-SP30 / 16	FM6	15	20	33,1			1817	41		171	169	158	142	133	123	112	100	86	70
N6-SP30 / 17	FM6	15	20	33,1			1913	43		182	180	168	151	141	131	119	106	91	75
N6-SP30 / 18	FM6	18,5	25	42,0			2009	45		193	190	178	160	150	139	126	112	97	79
N6-SP30 / 19	FM6	18,5	25	42,0			2105	47		203	201	188	169	158	147	133	119	102	84
N6-SP30 / 20	FM6	18,5	25	42,0			2201	49		214	212	197	178	166	154	140	125	107	88
N6-SP30 / 21	FM6	18,5	25	42,0			2297	51		225	222	207	187	175	162	147	131	113	92
N6-SP30 / 22	FM6	22	30	49,0			2393	53		236	233	217	195	183	170	154	137	118	97
N6-SP30 / 23	FM6	22	30	49,0			2489	55		246	243	227	204	191	177	161	143	123	101
N6-SP30 / 24	FM6	22	30	49,0			2585	57		257	254	237	213	200	185	168	150	129	106
N6-SP30 / 25	FM6	22	30	49,0			2681	59		268	264	247	222	208	193	175	156	134	110
N6-SP30 / 26	FM6	22	30	49,0			2777	61		278	275	257	231	216	201	182	162	140	114
N6-SP30 / 27	FM6	26	35	56,7			2873	63		289	286	266	240	225	208	189	168	145	119
N6-SP30 / 28	FM6	26	35	56,7			2969	66		300	296	276	249	233	216	196	175	150	123
N6-SP30 / 29	FM6	26	35	56,7			3065	68		311	307	286	258	241	224	203	181	156	128
N6-SP30 / 30	FM6	26	35	56,7			3161	70		321	317	296	267	250	231	210	187	161	132
N6-SP30 / 31	FM6	26	35	56,7			3257	72		332	328	306	275	258	239	217	193	166	136
N6-SP30 / 32	FM6	30	40	66,4			3353	74		343	338	316	284	266	247	224	200	172	141
N6-SP30 / 33	FM6	30	40	66,4			3449	76		353	349	326	293	275	255	231	206	177	145
N6-SP30 / 34	FM6	30	40	66,4			3545	78		364	360	336	302	283	262	238	212	183	150
N6-SP30 / 35	FM6	30	40	66,4			3641	80		375	370	345	311	291	270	245	218	188	154
N6-SP30 / 36	FM6	30	40	66,4	3737	82	386	381	355	320	300	278	252	225	193	158			
N6-SP30 / 37	FM7	37	50	76,0	4054	123	396	391	365	329	308	285	259	231	199	163			
N6-SP30 / 38	FM7	37	50	76,0	4149	125	407	402	375	338	316	293	266	237	204	167			
N6-SP30 / 39	FM7	37	50	76,0	4244	127	418	412	385	346	325	301	273	243	209	172			
N6-SP30 / 40	FM7	37	50	76,0	4339	129	428	423	395	355	333	309	280	250	215	176			
N6-SP30 / 41	FM7	37	50	76,0	4434	132	439	434	405	364	341	316	287	256	220	180			
N6-SP30 / 42	FM7	37	50	76,0	4529	135	450	444	415	373	350	324	294	262	226	185			
N6-SP30 / 43	FM7	37	50	76,0	4624	137	461	455	424	382	358	332	301	268	231	189			

Pump with sleeve

Performance Tolerances : EN ISO 9906

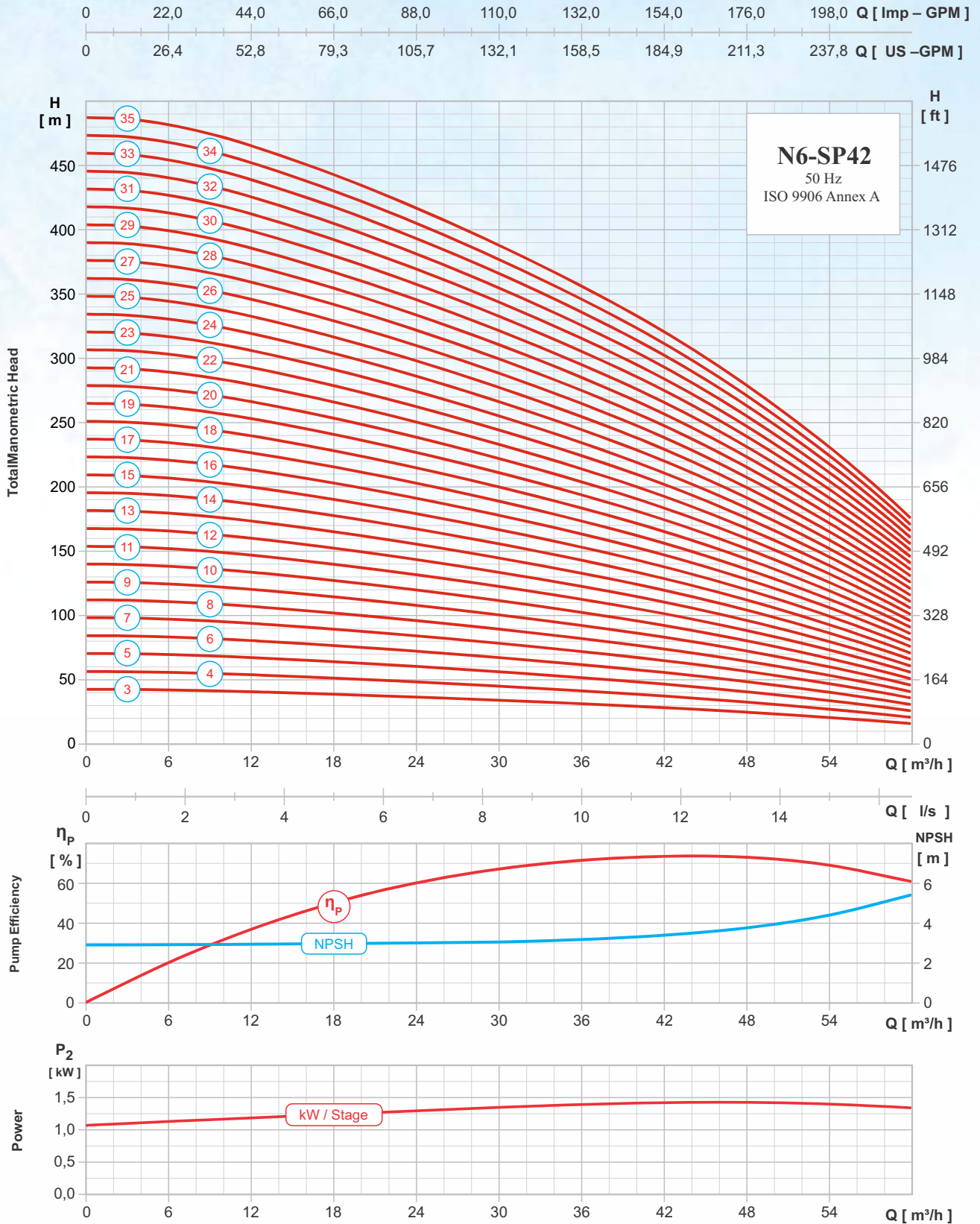
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 22 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



N6-SP42

**Stainless Steel Pump
Mixed Flow**



Manufacturing and Trading enterprises si

Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
									[Imp - GPM]										
									[US - GPM]										
									[l/s]										
[kW] [HP]		[A]	[mm]	[?nch]	[mm]	[kg]	[m³/h]												
N6-SP42 / 03	FM6	5,5	7,5	13,3	Ø 144	Rp 3 (3" Inside Threaded 11 TPI)	617	15	Total Manometric Head [m]										
N6-SP42 / 04	FM6	7,5	10	17,7			729	18	42	40	38	36	33	31	28	24	20	15	
N6-SP42 / 05	FM6	7,5	10	17,7			841	21	56	53	51	48	44	41	37	32	27	20	
N6-SP42 / 06	FM6	9,3	12,5	21,4			953	23	70	67	63	60	56	51	46	40	33	25	
N6-SP42 / 07	FM6	11	15	25,2			1065	26	84	80	76	72	67	61	55	48	40	30	
N6-SP42 / 08	FM6	13	17,5	29,6			1177	29	98	93	89	84	78	71	64	56	46	35	
N6-SP42 / 09	FM6	15	20	33,1			1289	31	112	107	101	95	89	82	73	64	53	40	
N6-SP42 / 10	FM6	15	20	33,1			1401	34	125	120	114	107	100	92	83	72	60	45	
N6-SP42 / 11	FM6	18,5	25	42,0			1513	37	139	133	127	119	111	102	92	80	66	50	
N6-SP42 / 12	FM6	18,5	25	42,0			1625	39	153	147	139	131	122	112	101	88	73	55	
N6-SP42 / 13	FM6	22	30	49,0			1737	42	167	160	152	143	133	122	110	96	80	60	
N6-SP42 / 14	FM6	22	30	49,0			1849	45	181	173	165	155	144	133	119	104	86	65	
N6-SP42 / 15	FM6	22	30	49,0			1961	47	195	186	177	167	156	143	129	112	93	70	
N6-SP42 / 16	FM6	26	35	56,7			2073	50	209	200	190	179	167	153	138	120	99	75	
N6-SP42 / 17	FM6	26	35	56,7			2185	52	223	213	203	191	178	163	147	128	106	80	
N6-SP42 / 18	FM6	30	40	66,4			2297	55	237	226	216	203	189	173	156	136	113	85	
N6-SP42 / 19	FM6	30	40	66,4			2409	58	251	240	228	215	200	184	165	144	119	91	
N6-SP42 / 20	FM6	37	50	81,9			2521	60	265	253	241	227	211	194	175	152	126	96	
N6-SP42 / 21	FM6	37	50	81,9			2633	63	279	266	254	239	222	204	184	160	133	101	
N6-SP42 / 22	FM6	37	50	81,9			2745	66	293	280	266	251	233	214	193	168	139	106	
N6-SP42 / 23	FM6	37	50	81,9			2857	68	307	293	279	263	244	224	202	176	146	111	
N6-SP42 / 24	FM6	37	50	81,9			2969	71	321	306	292	274	255	235	211	184	152	116	
N6-SP42 / 25	FM7	45	60	92,0			3081	74	335	320	304	286	267	245	220	192	159	121	
N6-SP42 / 26	FM7	45	60	92,0			3193	76	349	333	317	298	278	255	230	200	166	126	
N6-SP42 / 27	FM7	45	60	92,0			3305	79	363	346	330	310	289	265	239	208	172	131	
N6-SP42 / 28	FM7	45	60	92,0			3417	82	376	360	342	322	300	275	248	216	179	136	
N6-SP42 / 29	FM7	45	60	92,0			3529	84	390	373	355	334	311	286	257	224	186	141	
N6-SP42 / 30	FM8	55	75	110,0			3937	116	404	386	368	346	322	296	266	232	192	146	
N6-SP42 / 31	FM8	55	75	110,0			4047	120	418	400	380	358	333	306	276	240	199	151	
N6-SP42 / 32	FM8	55	75	110,0			4157	124	432	413	393	370	344	316	285	248	205	156	
N6-SP42 / 33	FM8	55	75	110,0			4267	128	446	426	406	382	355	326	294	256	212	161	
N6-SP42 / 34	FM8	55	75	110,0			4378	131	460	440	418	394	367	337	303	264	219	166	
N6-SP42 / 35	FM8	55	75	110,0			4488	135	474	453	431	406	378	347	312	272	225	171	

Pump with sleeve

Performance Tolerances : EN ISO 9906

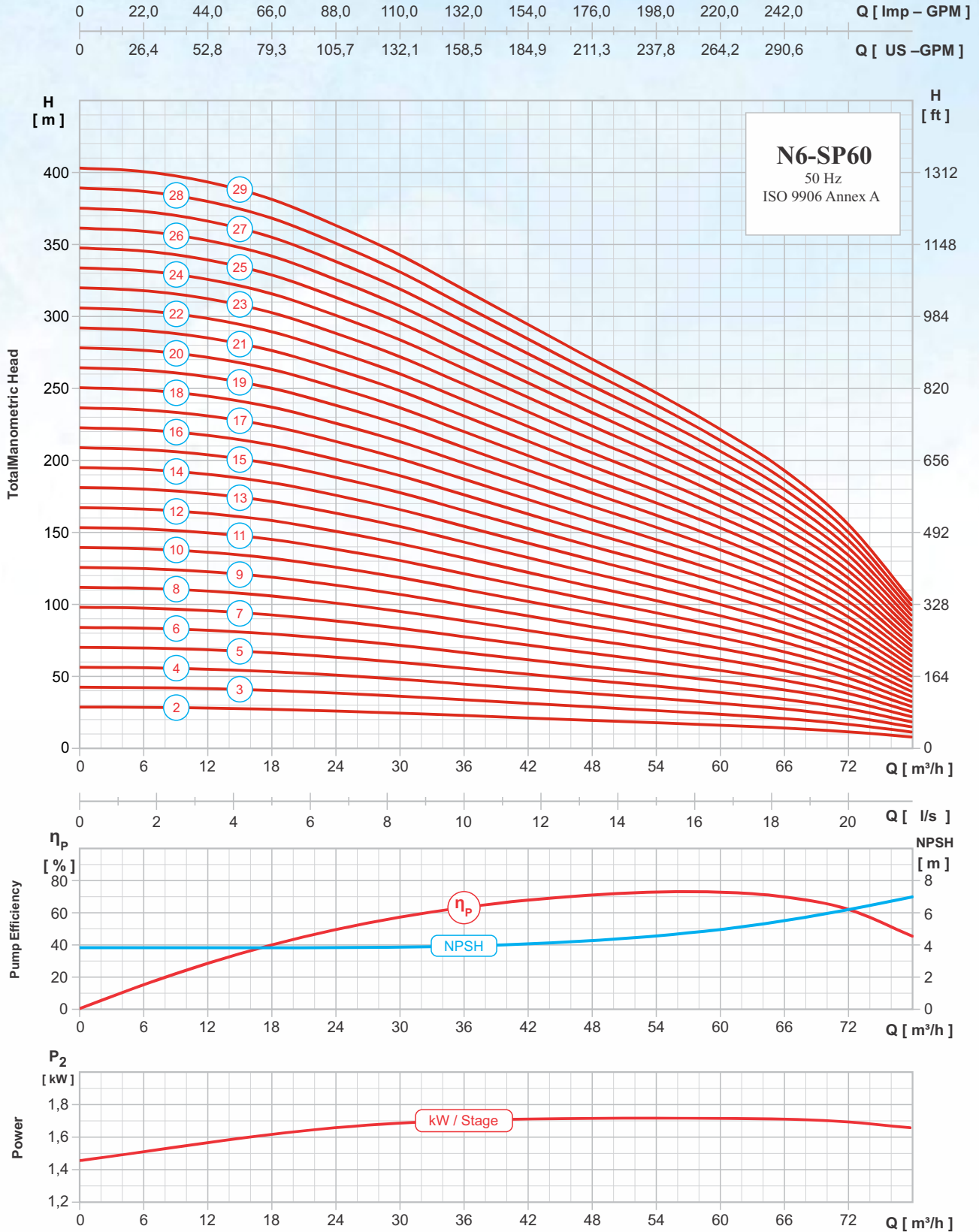
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 22 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure: 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
									Capacity										
		[kW] [HP]		[A]	[mm]	[?nch]	[mm]	[kg]	[Imp - GPM]	0	66,0	110,0	154,0	176,0	198,0	220,0	242,0	264,0	286,0
		[US - GPM]								0	79,3	132,1	184,9	211,3	237,8	264,2	290,6	317,0	343,4
[l/s]								0	5,0	8,3	11,7	13,3	15,0	16,7	18,3	20,0	21,7		
[m³/h]								0	18	30	42	48	54	60	66	72	78		
N6-SP60 / 02	FM6	4,5	6	11,6	Ø 144	Rp 4 (4" Inside Threaded 11 TPI)	505	13	Total Manometric Head [m]	28	26	24	20	19	17	15	13	11	7
N6-SP60 / 03	FM6	5,5	7,5	13,3			617	15		42	40	35	31	28	26	23	20	16	11
N6-SP60 / 04	FM6	7,5	10	17,7			729	18		56	53	47	41	37	34	31	27	22	14
N6-SP60 / 05	FM6	9,3	12,5	21,4			841	21		70	66	59	51	47	43	38	33	27	18
N6-SP60 / 06	FM6	11	15	25,2			953	23		84	79	71	61	56	51	46	40	32	21
N6-SP60 / 07	FM6	13	17,5	29,6			1065	26		97	92	83	71	65	60	54	47	38	25
N6-SP60 / 08	FM6	15	20	33,1			1177	29		111	105	95	81	75	68	61	53	43	28
N6-SP60 / 09	FM6	18,5	25	42,0			1289	31		125	119	106	92	84	77	69	60	48	32
N6-SP60 / 10	FM6	18,5	25	42,0			1401	34		139	132	118	102	93	85	77	67	54	35
N6-SP60 / 11	FM6	22	30	49,0			1513	37		153	145	130	112	103	94	84	73	59	39
N6-SP60 / 12	FM6	22	30	49,0			1625	39		167	158	142	122	112	102	92	80	65	43
N6-SP60 / 13	FM6	26	35	56,7			1737	42		181	171	154	132	121	111	99	87	70	46
N6-SP60 / 14	FM6	26	35	56,7			1849	45		195	184	166	142	131	119	107	93	75	50
N6-SP60 / 15	FM6	26	35	56,7			1961	47		209	198	177	153	140	128	115	100	81	53
N6-SP60 / 16	FM6	30	40	66,4			2073	50		223	211	189	163	149	136	122	107	86	57
N6-SP60 / 17	FM7	37	50	76,0			2185	53		237	224	201	173	159	145	130	113	91	60
N6-SP60 / 18	FM7	37	50	76,0			2297	55		251	237	213	183	168	153	138	120	97	64
N6-SP60 / 19	FM7	37	50	76,0			2409	58		264	250	225	193	177	162	145	127	102	67
N6-SP60 / 20	FM7	37	50	76,0			2521	61		278	263	237	203	187	171	153	133	108	71
N6-SP60 / 21	FM7	45	60	92,0			2633	63		292	277	248	214	196	179	161	140	113	74
N6-SP60 / 22	FM7	45	60	92,0			2745	66		306	290	260	224	205	188	168	147	118	78
N6-SP60 / 23	FM7	45	60	92,0			2857	68		320	303	272	234	215	196	176	153	124	81
N6-SP60 / 24	FM7	45	60	92,0			2969	71		334	316	284	244	224	205	184	160	129	85
N6-SP60 / 25	FM7	45	60	92,0			3081	74		348	329	296	254	233	213	191	167	134	89
N6-SP60 / 26	FM8	55	75	110,0			3193	76		362	342	308	264	243	222	199	173	140	92
N6-SP60 / 27	FM8	55	75	110,0			3305	79		376	356	319	275	252	230	207	180	145	96
N6-SP60 / 28	FM8	55	75	110,0			3417	82		390	369	331	285	261	239	214	187	151	99
N6-SP60 / 29	FM8	55	75	110,0			3529	84		404	382	343	295	271	247	222	193	156	103

Performance Tolerances : EN ISO 9906

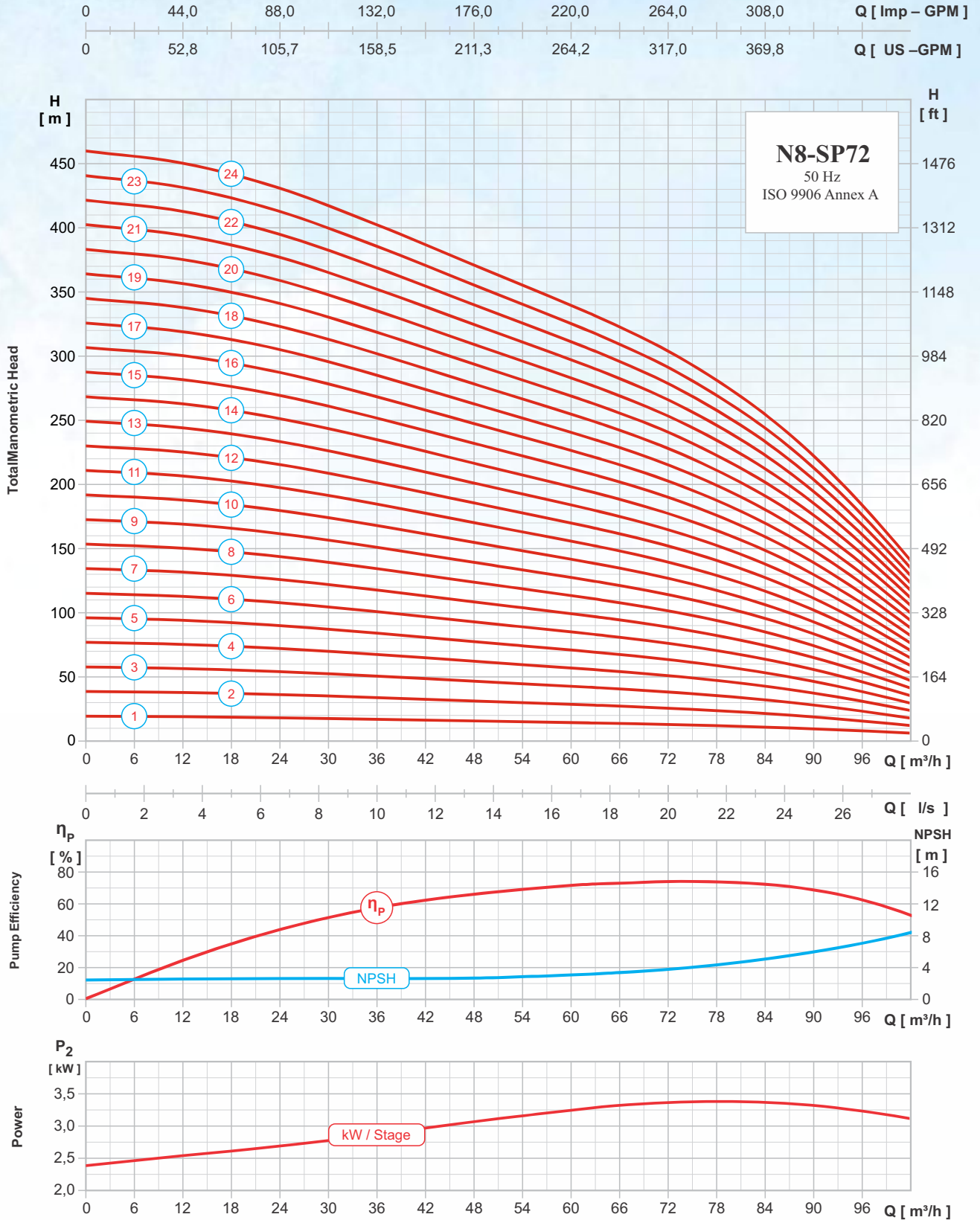
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 22 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
		[kW]	[HP]						[l/s]	[m³/h]	0	88,0	176,0	220,0	242,0	264,0	286,0	308,0	330,0
		P_N	I_N	$\varnothing Max_p$	$\varnothing D$	L_p	W_p	[Imp - GPM]	0	88,0	176,0	220,0	242,0	264,0	286,0	308,0	330,0	352,0	
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[US - GPM]	0	105,7	211,3	264,2	290,6	317,0	343,4	369,8	396,3	422,7
N8-SP72 / 01	FM6	4,5	6	11,6	Ø 184	Rp 5 (5" Ins?de Threaded 11 TPI)	588	25	Basma Yüksekli? Total Manometr?c Head [m]	19	18	15	14	13	13	12	11	9	8
N8-SP72 / 02	FM6	7,5	10	17,7			716	29		38	36	31	28	27	25	24	21	19	15
N8-SP72 / 03	FM6	11	15	25,2			844	33		57	54	46	42	40	38	35	32	28	23
N8-SP72 / 04	FM6	15	20	33,1			972	37		77	72	62	57	54	51	47	43	37	31
N8-SP72 / 05	FM6	18,5	25	42,0			1100	41		96	90	77	71	67	63	59	53	47	39
N8-SP72 / 06	FM6	22	30	49,0			1228	45		115	108	93	85	81	76	71	64	56	46
N8-SP72 / 07	FM6	26	35	56,7			1356	49		134	126	108	99	94	89	82	75	65	54
N8-SP72 / 08	FM8	30	40	60,0			1484	53		153	144	124	113	108	102	94	85	75	62
N8-SP72 / 09	FM8	37	50	76,0			1612	57		172	162	139	127	121	114	106	96	84	70
N8-SP72 / 10	FM8	37	50	76,0			1740	61		192	180	155	142	135	127	118	107	93	77
N8-SP72 / 11	FM8	45	60	90,0			1868	65		211	198	170	156	148	140	129	117	102	85
N8-SP72 / 12	FM8	45	60	90,0			1996	69		230	215	186	170	162	152	141	128	112	93
N8-SP72 / 13	FM8	55	75	110,0			2124	73		249	233	201	184	175	165	153	138	121	100
N8-SP72 / 14	FM8	55	75	110,0			2252	77		268	251	217	198	189	178	165	149	130	108
N8-SP72 / 15	FM8	55	75	110,0			2380	81		287	269	232	212	202	190	176	160	140	116
N8-SP72 / 16	FM8	63	85	125,0			2508	85		307	287	248	227	216	203	188	170	149	124
N8-SP72 / 17	FM8	63	85	125,0			2636	89		326	305	263	241	229	216	200	181	158	131
N8-SP72 / 18	FM8	63	85	125,0			2764	93		345	323	278	255	242	228	212	192	168	139
N8-SP72 / 19	FM8	75	100	148,0			2892	97		364	341	294	269	256	241	223	202	177	147
N8-SP72 / 20	FM8	75	100	148,0			3020	101		383	359	309	283	269	254	235	213	186	155
N8-SP72 / 21	FM8	75	100	148,0			3148	105		402	377	325	297	283	267	247	224	196	162
N8-SP72 / 22	FM10	81	110	159,0			3276	109		422	395	340	312	296	279	259	234	205	170
N8-SP72 / 23	FM10	81	110	159,0			3404	113		441	413	356	326	310	292	270	245	214	178
N8-SP72 / 24	FM10	92	125	180,0			3532	117		460	431	371	340	323	305	282	256	224	185

Performance Tolerances : EN ISO 9906

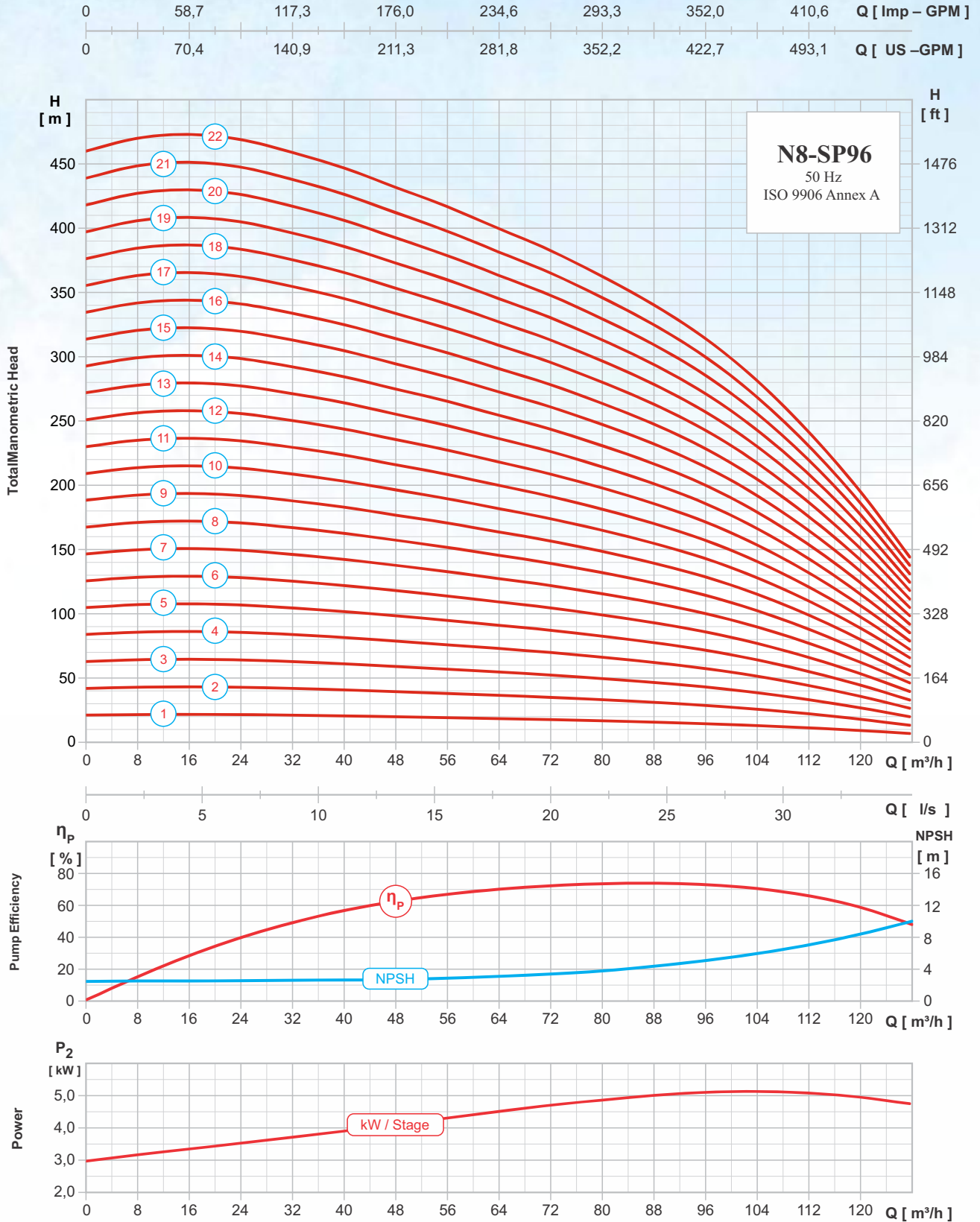
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 25 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity												
									[Imp - GPM]	0	117,3	176,0	234,6	293,3	322,6	352,0	381,3	410,6	439,9		
									[US - GPM]	0	140,9	211,3	281,8	352,2	387,5	422,7	457,9	493,1	528,3		
									[l/s]	0	8,9	13,3	17,8	22,2	24,4	26,7	28,9	31,1	33,3		
		P_N	I_N	$\varnothing Max_p$	$\varnothing D$	L_p	W_p														
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]													
N8-SP96 / 01	FM6	5,5	7,5	13,3	Ø 184	Rp 5 (5" Inside Threaded 11 TPI)	588	25	Total Manometric Head [m]	21	21	20	18	17	16	14	13	11	9		
N8-SP96 / 02	FM6	11	15	25,2			716	29		42	42	39	36	33	31	29	26	22	18		
N8-SP96 / 03	FM6	18,5	25	42,0			844	33		63	63	59	55	50	47	43	39	33	27		
N8-SP96 / 04	FM6	22	30	49,0			972	37		84	83	79	73	66	62	57	51	44	36		
N8-SP96 / 05	FM8	30	40	60,0			1100	41		105	104	98	91	83	78	72	64	55	45		
N8-SP96 / 06	FM8	37	50	76,0			1228	45		125	125	118	109	99	93	86	77	66	54		
N8-SP96 / 07	FM8	37	50	76,0			1356	49		146	146	137	127	116	109	100	90	77	63		
N8-SP96 / 08	FM8	45	60	90,0			1484	53		167	167	157	145	132	124	115	103	88	72		
N8-SP96 / 09	FM8	55	75	110,0			1612	57		188	188	177	164	149	140	129	116	99	81		
N8-SP96 / 10	FM8	55	75	110,0			1740	61		209	209	196	182	165	155	143	128	110	90		
N8-SP96 / 11	FM8	63	85	125,0			1868	65		230	230	216	200	182	171	157	141	121	99		
N8-SP96 / 12	FM8	63	85	125,0			1996	69		251	250	236	218	198	186	172	154	133	107		
N8-SP96 / 13	FM8	75	100	148,0			2124	73		272	271	255	236	215	202	186	167	144	116		
N8-SP96 / 14	FM8	75	100	148,0			2252	77		293	292	275	255	231	217	200	180	155	125		
N8-SP96 / 15	FM10	81	110	159,0			2380	81		314	313	295	273	248	233	215	193	166	134		
N8-SP96 / 16	FM10	92	125	180,0			2508	85		335	334	314	291	264	248	229	205	177	143		
N8-SP96 / 17	FM10	92	125	180,0			2636	89		355	355	334	309	281	264	243	218	188	152		
N8-SP96 / 18	FM10	110	150	211,0			2764	93		376	376	353	327	297	279	258	231	199	161		
N8-SP96 / 19	FM10	110	150	211,0			2892	97		397	396	373	345	314	295	272	244	210	170		
N8-SP96 / 20	FM10	110	150	211,0			3020	101		418	417	393	364	330	310	286	257	221	179		
N8-SP96 / 21	FM10	110	150	211,0			3148	105		439	438	412	382	347	326	301	270	232	188		
N8-SP96 / 22	FM10	129	175	249,0			3276	109		460	459	432	400	363	341	315	283	243	197		

Performance Tolerances : EN ISO 9906

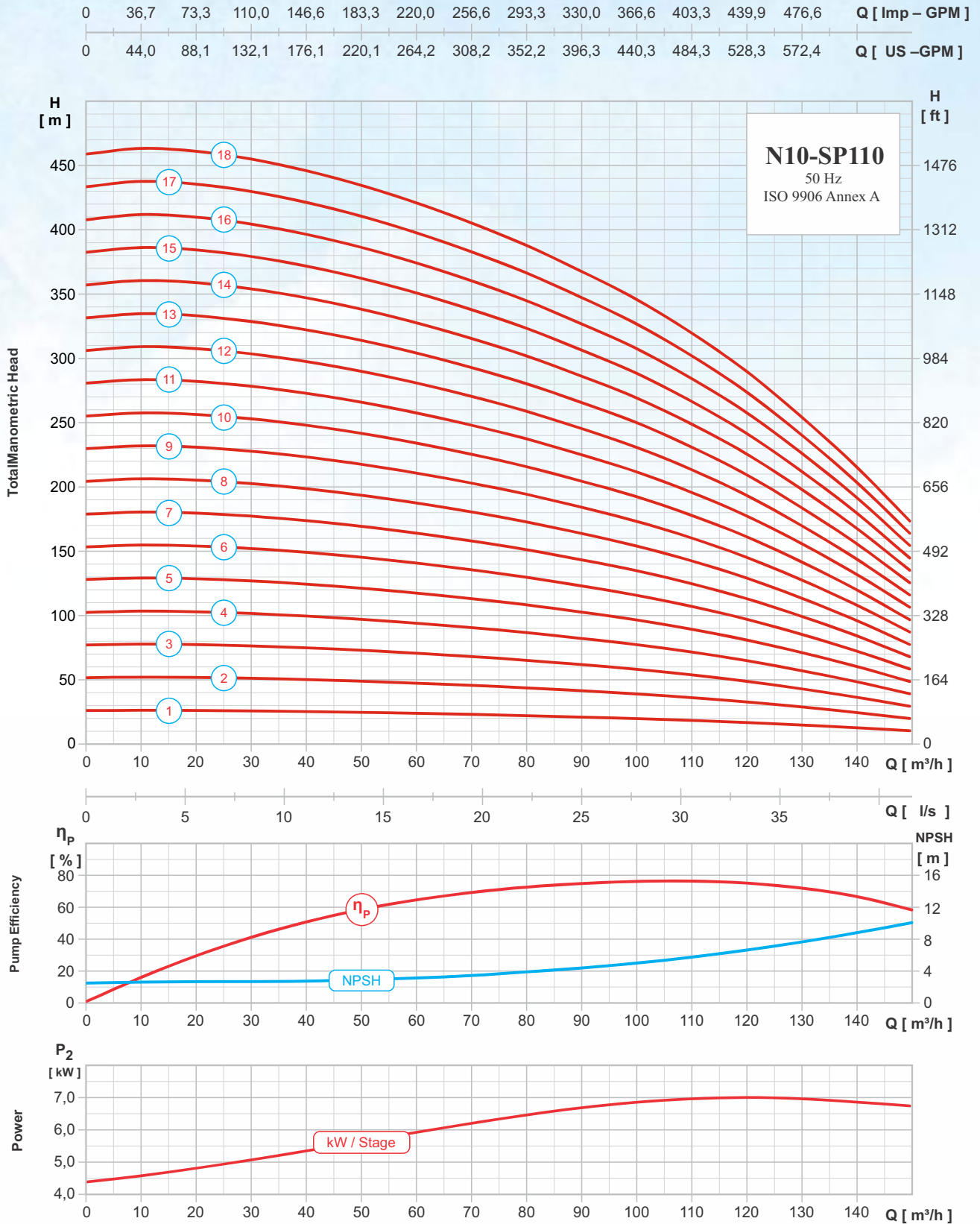
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 25 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



N10-SP110

Stainless Steel Pump
Mixed Flow

MAT
Manufacturing and Trading enterprises sl

Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
		[kW]	[HP]						[Imp - GPM]	0	110,0	183,3	256,6	330,0	366,6	403,3	439,9	476,6	513,3
				[US - GPM]	0	132,1	220,1	308,2	396,3	440,3	484,3	528,3	572,4	616,4					
				[l/s]	0	8,3	13,9	19,4	25,0	27,8	30,6	33,3	36,1	38,9					
									[m³/h]	0	30	50	70	90	100	110	120	130	140
N10-SP110 / 01	FM6	7,5	10	13,3	Ø 226	Rp 6 (6" Inside Threaded 11 TPI)	666	37	Total Manometric Head [m]	26	25	24	23	20	19	18	16	14	12
N10-SP110 / 02	FM6	15	15	25,2			821	43		51	51	48	45	41	39	36	32	28	24
N10-SP110 / 03	FM6	22	30	49,0			977	49		77	76	72	68	61	58	53	48	43	36
N10-SP110 / 04	FM8	30	40	60,0			1132	56		102	101	97	90	82	77	71	65	57	48
N10-SP110 / 05	FM8	37	50	76,0			1288	62		128	126	121	113	102	96	89	81	71	60
N10-SP110 / 06	FM8	45	60	90,0			1443	68		153	152	145	135	123	116	107	97	85	72
N10-SP110 / 07	FM8	55	75	110,0			1599	75		179	177	169	158	143	135	125	113	99	84
N10-SP110 / 08	FM8	63	85	125,0			1754	81		204	202	193	180	164	154	142	129	114	96
N10-SP110 / 09	FM8	75	100	148,0			1910	87		230	228	217	203	184	173	160	145	128	108
N10-SP110 / 10	FM8	75	100	148,0			2065	94		255	253	242	225	205	193	178	162	142	120
N10-SP110 / 11	FM10	81	110	159,0			2221	100		281	278	266	248	225	212	196	178	156	132
N10-SP110 / 12	FM10	92	125	180,0			2376	106		306	303	290	270	245	231	214	194	170	144
N10-SP110 / 13	FM10	92	125	180,0			2532	112		332	329	314	293	266	250	231	210	184	156
N10-SP110 / 14	FM10	110	150	211,0			2687	119		357	354	338	316	286	270	249	226	199	169
N10-SP110 / 15	FM10	110	150	211,0			2843	125		383	379	362	338	307	289	267	242	213	181
N10-SP110 / 16	FM10	129	175	249,0			2998	131		408	405	387	361	327	308	285	258	227	193
N10-SP110 / 17	FM10	129	175	249,0			3154	138		434	430	411	383	348	327	303	275	241	205
N10-SP110 / 18	FM10	129	175	249,0			3309	144		459	455	435	406	368	347	320	291	255	217

Performance Tolerances : EN ISO 9906

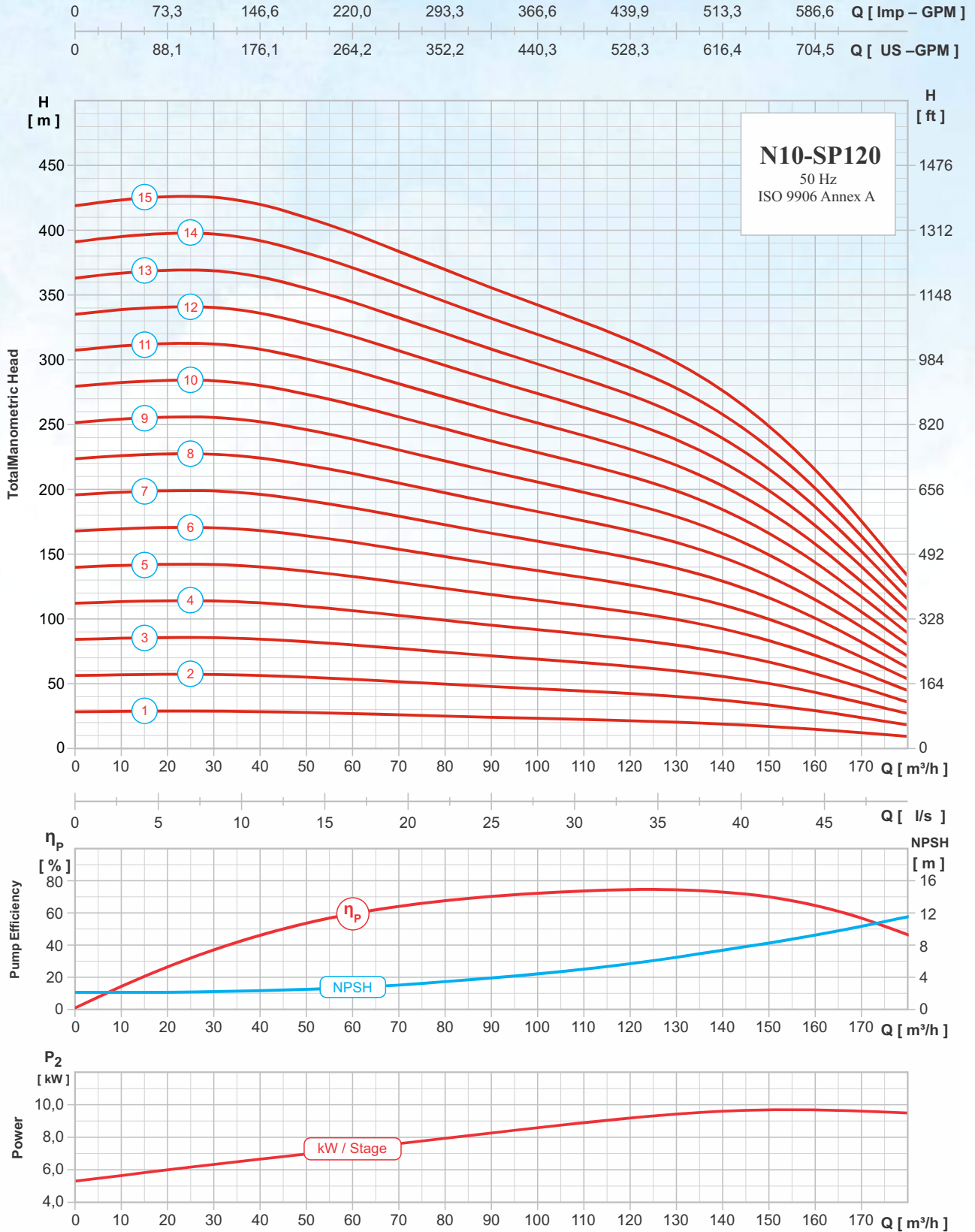
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 32 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



N10-SP120

Stainless Steel Pump
Mixed Flow

MAT
Manufacturing and Trading enterprises sl

Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
									[Imp - GPM]										
		P _N		I _N	Ø Max _p	Ø D	L _p	W _p	[US - GPM]										
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[l/s]	[m³/h]									
N10-SP120 / 01	FM6	11	15	25,2	Ø 226	Rp 6 (6" Inside Threaded 11 TPI)	666	39	Total Manometric Head [m]	28	27	26	24	22	21	20	18	17	14
N10-SP120 / 02	FM6	22	30	49,0			821	45		56	55	51	47	44	42	40	37	33	29
N10-SP120 / 03	FM8	30	40	60,0			977	51		84	82	77	71	66	63	60	55	50	43
N10-SP120 / 04	FM8	45	60	90,0			1132	58		112	109	102	95	88	84	80	74	67	58
N10-SP120 / 05	FM8	55	75	110,0			1288	64		140	137	128	119	110	105	100	92	83	72
N10-SP120 / 06	FM8	63	85	125,0			1443	70		168	164	154	142	132	126	119	111	100	87
N10-SP120 / 07	FM8	75	100	148,0			1599	77		196	191	179	166	154	147	139	129	117	101
N10-SP120 / 08	FM10	81	110	159,0			1754	83		223	219	205	190	176	168	159	148	133	115
N10-SP120 / 09	FM10	92	125	180,0			1910	89		251	246	230	214	198	189	179	166	150	130
N10-SP120 / 10	FM10	110	150	211,0			2065	96		279	273	256	237	220	210	199	185	167	144
N10-SP120 / 11	FM10	110	150	211,0			2221	102		307	301	282	261	242	231	219	203	183	159
N10-SP120 / 12	FM10	129	175	249,0			2376	108		335	328	307	285	264	252	239	222	200	173
N10-SP120 / 13	FM10	147	200	284,0			2532	114		363	355	333	309	286	273	259	240	217	188
N10-SP120 / 14	FM10	147	200	284,0			2687	121		391	383	358	332	308	294	279	259	233	202
N10-SP120 / 15	FM10	166	225	318,0			2843	127		419	410	384	356	329	315	299	277	250	217

Performance Tolerances : EN ISO 9906

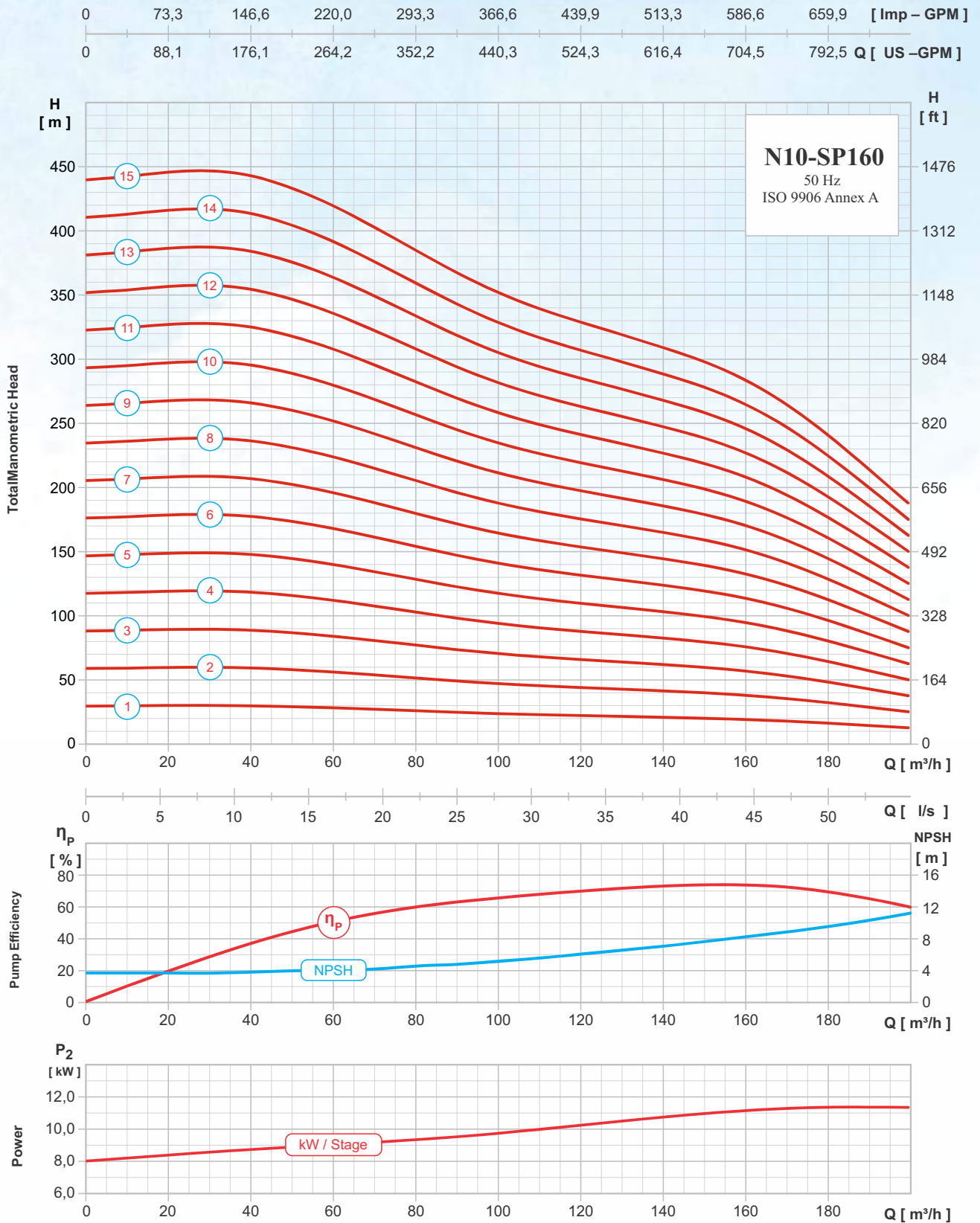
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 32 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



N10-SP160

Stainless Steel Pump
Mixed Flow

Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
									[Imp - GPM]										
		P _N		I _N	Ø Max _p	Ø D	L _p	W _p	[US - GPM]										
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[l/s]	[m³/h]									
N10-SP160 / 01	FM6	13	17,5	29,6	Ø 226	Rp 6 (6" Inside Threaded 11 TPI)	666	39	Total Manometric Head [m]	29	30	28	26	24	22	21	19	16	13
N10-SP160 / 02	FM6	26	35	56,7			821	45		59	59	56	51	47	44	41	38	32	25
N10-SP160 / 03	FM8	37	50	76,0			977	51		88	89	84	77	71	66	62	57	48	38
N10-SP160 / 04	FM8	55	75	110,0			1132	58		117	118	112	103	94	88	83	76	65	50
N10-SP160 / 05	FM8	63	85	125,0			1288	64		147	148	140	129	118	110	103	95	81	63
N10-SP160 / 06	FM8	75	100	148,0			1443	70		176	177	168	154	141	132	124	114	97	75
N10-SP160 / 07	FM10	92	125	180,0			1599	77		205	207	196	180	165	154	144	133	113	88
N10-SP160 / 08	FM10	92	125	180,0			1754	83		235	236	224	206	188	176	165	152	129	100
N10-SP160 / 09	FM10	110	150	211,0			1910	89		264	266	252	231	212	198	186	171	145	113
N10-SP160 / 10	FM10	129	175	249,0			2065	96		293	296	280	257	235	220	206	190	161	125
N10-SP160 / 11	FM10	129	175	249,0			2221	102		323	325	308	283	259	241	227	208	177	138
N10-SP160 / 12	FM10	147	200	284,0			2376	108		352	355	336	308	282	263	248	227	194	150
N10-SP160 / 13	FM10	166	225	318,0			2532	114		381	384	364	334	306	285	268	246	210	163
N10-SP160 / 14	FM10	166	225	318,0			2687	121		411	414	392	360	329	307	289	265	226	175
N10-SP160 / 15	FM10	185	250	358,0			2843	127		440	443	420	386	353	329	309	284	242	188

Performance Tolerances : EN ISO 9906

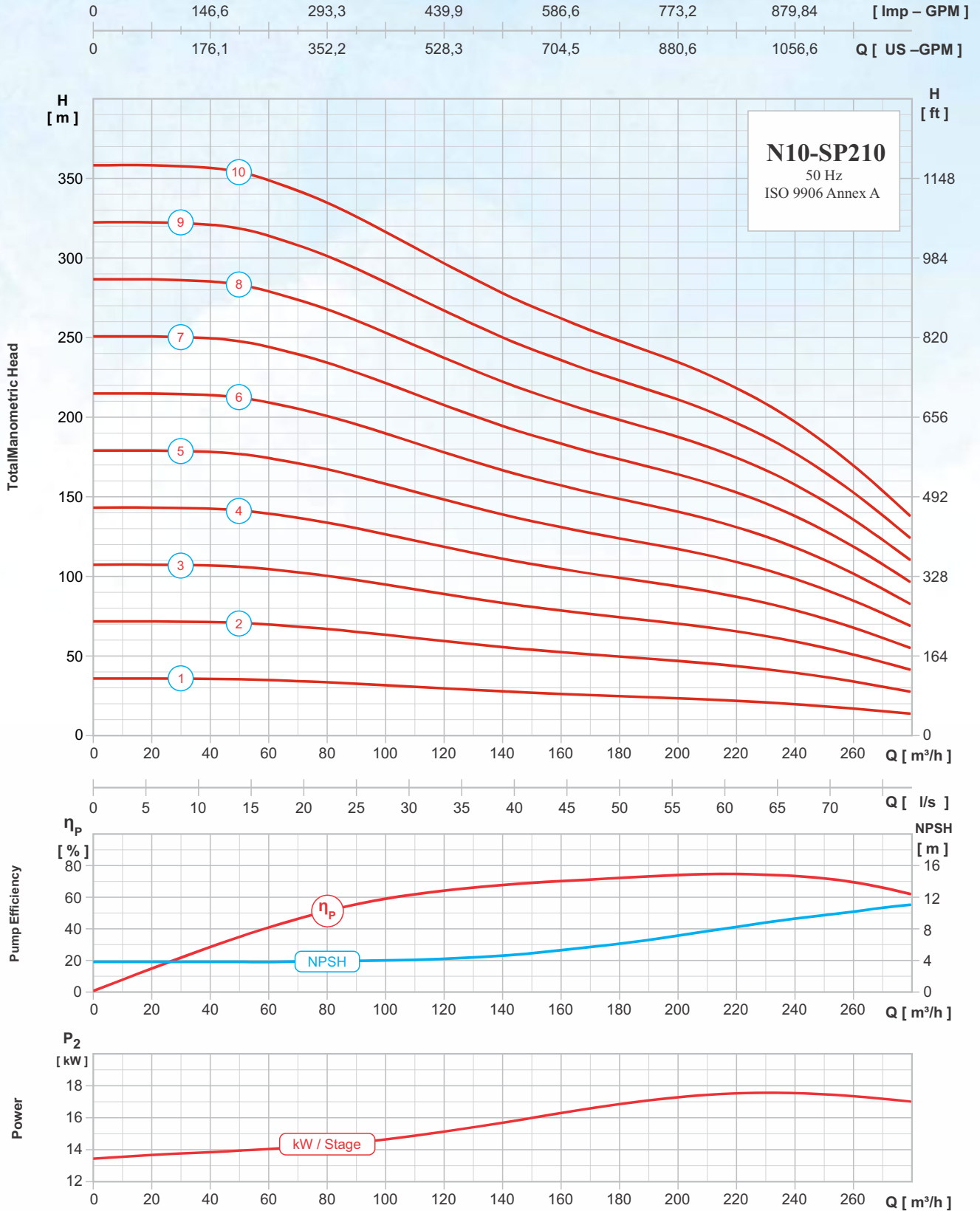
Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 32 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

Performance Curves



N10-SP210

Stainless Steel Pump
Mixed Flow

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Technical Data

3x400 V / 50 Hz / 2900 rpm

Pump Type	Motor Type	Motor Power		Current [400 V]	Max. Pump Dia	Outlet Diameter	Pump Length	Pump Weight	[Q] Capacity										
									[Imp - GPM]										
		P _N		I _N	Ø Max _p	Ø D	L _p	W _p	[US - GPM]										
		[kW]	[HP]	[A]	[mm]	[?nch]	[mm]	[kg]	[l/s]	[m³/h]									
N10-SP210 / 01	FM6	18,5	25	42,0	Ø 247	Rp 6 (6" Inside Threaded 11 TPI)	762	51	[H] Total Manometric Head [m]	36	35	32	27	26	24	23	21	19	16
N10-SP210 / 02	FM8	37	50	76,0			938	61		72	71	63	54	51	48	46	42	37	31
N10-SP210 / 03	FM8	55	75	110,0			1114	72		107	106	95	81	77	73	68	63	56	47
N10-SP210 / 04	FM8	75	100	148,0			1290	83		143	142	127	108	102	97	91	84	74	62
N10-SP210 / 05	FM10	92	125	180,0			1466	94		179	177	158	135	128	121	114	105	93	78
N10-SP210 / 06	FM10	110	150	211,0			1642	105		215	212	190	162	153	145	137	126	111	93
N10-SP210 / 07	FM10	129	175	249,0			1818	115		251	248	222	189	179	169	159	146	130	109
N10-SP210 / 08	FM10	147	200	284,0			1994	126		287	283	253	216	204	193	182	167	148	124
N10-SP210 / 09	FM10	166	225	318,0			2170	137		322	319	285	243	230	218	205	188	167	140
N10-SP210 / 10	FM10	185	250	358,0			2346	148		358	354	317	270	255	242	228	209	185	155

Performance Tolerances : EN ISO 9906

Working Conditions

Operating Voltage : 3 x 380V - 400V - 415V (- %10 / +%6)
 Frequency : 50 Hz
 Max. Water Temp. : 40 °C
 Max. Sand Amount : 50 g / m³
 Rotation : Counterclockwise
 Rotational Speed : 2900 rpm
 Shaft Diameter : Ø 45 mm
 Shaft End : According to NEMA Standard

Performance Parameters

Atmospheric Pressure : 1 Bar
 Water Temp. : 15 °C
 Kinematic Viscosity : 1 mm² / s
 Specific Density : 1000 kg / m³

DEEP WELL PUMPS

A very long deep well pumps stainless steel with good quality and efficiency. The pumps head meters can head up to 1000 meters.



	FLOW/ Q	6 m ³ / h	12 m ³ / h
610/52	H (m)	550	320
610/53		559	327
610/54		569	335
610/55		578	342
610/56		588	350
610/57		597	357
610/58		607	365
610/59		616	372
610/60		626	380

	FLOW/ Q	12 m ³ / h	20 m ³ / h
617/60	H (m)	600	395
617/61		609	399
617/62		619	404
617/63		628	409
617/64		638	414
617/65		647	418
617/66		657	423
617/67		666	428
617/68		676	433
617/69		685	437
617/70		695	442
617/71		704	447
617/72		714	452
617/73		723	456
617/74		733	461
617/75		742	466
617/76		752	471
617/77		761	475
617/78		771	480
617/79		780	485
617/80		790	490
617/81		799	494
617/82		809	499
617/83		818	504
617/84		828	509
617/85		837	513
617/86		847	518
617/87		856	523
617/88		866	528
617/89		875	532
617/90		885	537
617/91		894	542
617/92		904	547
617/93		913	551
617/94		923	556
617/95	932	561	

DEEP WELL PUMPS



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	FLOW/ Q	24 m ³ / h	32 m ³ / h
630/54		500	400
630/55		510	405
630/56		521	411
630/57		533	416
630/58		543	422
630/59		554	427
630/60		566	433
630/61		576	438
630/62		587	444
630/63		599	449
630/64		609	455
630/65		620	460
630/66		632	466
630/67		642	471
630/68		653	477
630/69		665	482
630/70		675	488
630/71		686	493
630/72		698	499
630/73		708	504
630/74		719	510
630/75		731	515
630/76	H (m)	741	521
630/77		752	526
630/78		764	532
630/79		774	537
630/80		785	543
630/81		797	548
630/82		807	554
630/83		818	559
630/84		830	565
630/85		840	570
630/86		851	576
630/87		863	581
630/88		873	587
630/89		884	592
630/90		896	598
630/91		906	603
630/92		917	609
630/93		929	614
630/94		939	620
630/95		950	625
630/96		962	631
630/97		972	636
630/98		983	642
630/99		995	647
630/100		1005	653

	FLOW/ Q	30 m ³ / h	50 m ³ / h
646/37		420	305
646/38		428	312
646/39		437	320
646/40		447	329
646/41		455	336
646/42		464	344
646/43		474	353
646/44		482	360
646/45		491	368
646/46		501	377
646/47		509	384
646/48		518	392
646/49		528	401
646/50		536	408
646/51		545	416
646/52		555	425
646/53		563	432
646/54		572	440
646/55		582	449
646/56	H (m)	590	456
646/57		599	464
646/58		609	473
646/59		617	480
646/60		626	488
646/61		636	497
646/62		644	504
646/63		653	512
646/64		663	521
646/65		671	528
646/66		680	536
646/67		690	545
646/68		698	552
646/69		707	560
646/70		717	569
646/71		725	576
646/72		734	584
646/73		744	593
646/74		752	600
646/75		761	608

	FLOW/ Q	40 m ³ / h	60 m ³ / h
660/30		328	245
660/31		337	252
660/32		347	260
660/33		356	267
660/34		366	275
660/35		375	282
660/36		385	290
660/37		394	297
660/38		404	305
660/39		413	312
660/40		423	320
660/41		432	327
660/42		442	335
660/43		451	342
660/44		461	350
660/45		470	357
660/46		480	365
660/47		489	372
660/48		499	380
660/49		508	387
660/50		518	395
660/51		527	402
660/52	H (m)	537	410
660/53		546	417
660/54		556	425
660/55		565	432
660/56		575	440
660/57		584	447
660/58		594	455
660/59		603	462
660/60		613	470
660/61		622	477
660/62		632	485
660/63		641	492
660/64		651	500
660/65		660	507
660/66		670	515
660/67		679	522
660/68		689	530
660/69		698	537
660/70		708	545
660/71		717	552
660/72		727	560
660/73		736	567
660/74		746	575
660/75		755	582

HORIZONTAL SHAFT MULTISTAGE CENTRIFUGAL PUMPS

Operation Details	
Discharge Flange	DN 65 .. DN 150
Q (Flow)	400 m ³ /h (max)
H (Head)	560 m (max.)
Motor (Rotation Per Minute)	1450 d/dk - 2900 d/dk.
Direction of Rotation (Motor)	Counter-clockwise when viewed from the coupling (left)
t (Operating Temperature) (1)	-10 °C (min.) / +140 °C (max.)
Pd (Body Pressure Pmax) (2)	30 bar (63 bar)



VERTICAL SHAFT MULTISTAGE CENTRIFUGAL PUMPS

Operation Details	
Suction Flange	DN 32 .. DN 150
Q (Flow)	1000 m ³ /h (max)
H (Head)	450 m (max.)
Motor (Rotation Per Minute)	1450 d/dk. - 2900 d/dk.
Direction of Rotation (Motor)	Clockwise (Right)
t (Operating Temperature) (1)	-10 °C (min.) / +120 °C (max.)
Pd (Body Pressure Pmax) (2)	30 bar (50 bar)

SINGLE STAGE CENTRIFUGAL PUMPS

Operation Details	
Suction Flange	DN 50 .. DN 300
Discharge Flange	DN 32 .. DN 250 mm
Q (Flow)	1700 m ³ /h (max)
H (Head)	100 m (max.)
Motor (Rotation Per Minute)	1450 rpm. from 2900 rpm up to 3600 rpm
Direction of Rotation (Motor)	Clockwise (Right)
t (Operating Temperature) (1)	-10 °C (min.) / +140 °C (max.)
Pd (Body Pressure Pmax) (2)	10 - 16 bar



MONOBLACK CENTRIFUGAL PUMPS

Operation Details	
Suction Flange	DN 50 .. DN 200
Discharge Flange	DN 32 .. DN 150 mm
Q (Flow)	500 m ³ /h (max)
H (Head)	95 m (max.)
Motor (Rotation Per Minute)	1450 d/dk. - 2900 d/dk.
Direction of Rotation (Motor)	Clockwise (Right)
t (Operating Temperature) (1)	-10 °C (min.) / +140 °C (max.)
Pd (Body Pressure Pmax) (2)	10 - 16 bar

END SUCTION FIRE PUMPS

NOMINAL FLOW		NOMINAL PRESSURES (m)
50 gpm / 11.4 m ³ /h	50 gpm / 11.4 m ³ /h	30
100 gpm / 22,7 m ³ /h	100 gpm / 22,7 m ³ /h	40
150 gpm / 34,1 m ³ /h	150 gpm / 34,1 m ³ /h	50
200 gpm / 45.4 m ³ /h	200 gpm / 45.4 m ³ /h	60
250 gpm / 56.8 m ³ /h	250 gpm / 56.8 m ³ /h	70
300 gpm / 68.1 m ³ /h	300 gpm / 68.1 m ³ /h	80
400 gpm / 91 m ³ /h	400 gpm / 91 m ³ /h	90
450 gpm / 102 m ³ /h	450 gpm / 102 m ³ /h	100
500 gpm / 114 m ³ /h	500 gpm / 114 m ³ /h	110
750 gpm / 170 m ³ /h	750 gpm / 170 m ³ /h	120

HORIZONTAL MULTISTAGE FIRE PUMPS

NOMINAL FLOW		NOMINAL PRESSURES (m)	
25 gpm / 5.7 m ³ /h	400 gpm / 91 m ³ /h	30	90
50 gpm / 11.4 m ³ /h	450 gpm / 102 m ³ /h	40	100
100 gpm / 22,7 m ³ /h	500 gpm / 114 m ³ /h	50	110
150 gpm / 34,1 m ³ /h	750 gpm / 170 m ³ /h	60	120
200 gpm / 45.4 m ³ /h	1000 gpm / 227 m ³ /h	70	130
250 gpm / 56.8 m ³ /h	1250 gpm / 284 m ³ /h	80	140
300 gpm / 68.1 m ³ /h	1500 gpm / 341 m ³ /h		
	2000 gpm / 454 m ³ /h		



GENERATORS

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POWER YOUR FUTURE

Gasoline, Diesel, Natural Gas
Powered Generating Sets
Marine Auxiliary and Mobile
Generating Sets



PORTABLE

0,85 - 6,3 kW

AAP SERIES



GASOLINE



INVERTER



GASOLINE



GASOLINE



GASOLINE



DIESEL

DIESEL

275 - 770 kVA / 220 - 616 kW

VOLVO PENTA



33 - 275 kVA / 26,4 - 220 kW

JOHN DEERE



55 - 3000 kVA / 44 - 2400 kW

CUMMINS



NATURAL GAS

27,5 - 428 kVA

DOOSAN - GM - LOVOL



11,5 - 1250 kVA / 9,2 - 1000 kW

APD SERIES



GENERATORS



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825 - 2500 kVA / 660 - 2000 kW

mitsubishi



39 - 220kVA

GENSET WITH CANOPY



220 - 825 kVA / 176 - 660 kW

DOOSAN



250 - 825 kVA

GENSET WITH CANOPY



14,5 - 2500 kVA / 11,6 - 2000 kW

PERKINS



1650 - 2500 kVA

GENSET WITH CANOPY



8 - 33 kVA

GENSET WITH CANOPY



GENSET WITH CONTAINER



DIESEL 50 Hz., 400 / 230 V.

GENSET Model	POWER cos φ:0,8 kVA		POWER kW		ENGINE		
	Prime	Standby	Prime	Standby	Make	Model	RPM
AJD 33	28	33	22,4	26,4	John Deere	3029 D	1500
AJD 45	40	45	32	36	John Deere	3029 T	1500
AJD 75	68	75	54,4	60	John Deere	4045 T - 70	1500
AJD 90	80	90	64	72	John Deere	4045 T - 83	1500
AJD 110	100	110	80	88	John Deere	4045 H	1500
AJD 132	120	132	96	105,6	John Deere	6068 T	1500
AJD 170	155	170	124	136	John Deere	6068 H - 155	1500
AJD 200	180	200	144	160	John Deere	6068 H - 183	1500
AJD 275	250	275	200	220	John Deere	6068 HFG55	1500
AC 55	50	55	40	44	Cummins	S 3,8 - G6	1500
AC 66	60	66	48	52,8	Cummins	S 3,8 - G7	1500
AC 110	100	110	80	88	Cummins	6BTA 5,9 - G5	1500
AC 150	135	150	108	120	Cummins	6BTAA 5,9 - G6	1500
AC 170	155	170	124	136	Cummins	6BTAA 5,9 - G7	1500
AC 350	300	350	240	280	Cummins	QSL9 - G5	1500
AC 400	360	400	288	320	Cummins	NTA 855 - G4	1500
AC 500	455	500	364	400	Cummins	QSX 15 - G6	1500
AC 550	500	550	400	440	Cummins	QSX 15 - G8	1500
AC 700	638	700	510	560	Cummins	VTA 28 - G5	1500
AC 825	-	825	-	660	Cummins	VTA 28 - G6	1500
AC 880	800	880	640	704	Cummins	QSK 23 - G3	1500
AC 1100	1000	1100	800	880	Cummins	QST 30 - G4	1500
AC 1100K	1000	1100	800	880	Cummins	KTA 38 - G5	1500
AC 1410	1280	1410	1024	1128	Cummins	KTA 50 - G3	1500
AC 1650	1400	1650	1120	1320	Cummins	KTA 50 - G8	1500
AC 1675	1400	1675	1120	1340	Cummins	KTA 50 - G8	1500
AC 2250	2045	2250	1636	1800	Cummins	QSK 60 - G4	1500
AC 2500	2000	2500	1600	2000	Cummins	QSK 60 - G13	1500
AC 3000	2750	3000	2200	2400	Cummins	QSK 78 - G9	1500
AD 93	84	93	67,2	74,4	Doosan	D1146	1500
AD 132	120	132	96	105,6	Doosan	D1146T	1500
AD 185	168	185	134,4	148	Doosan	P086TI-1	1500
AD 220	200	220	160	176	Doosan	P086 TI	1500
AD 275	250	275	200	220	Doosan	P126 TI	1500
AD 330	300	330	240	264	Doosan	P126 TI - II	1500
AD 410	370	410	296	328	Doosan	DP126 LB	1500
AD 490	425	485	340	388	Doosan	P158 LE	1500
AD 510	460	510	368	408	Doosan	DP158 LC	1500
AD 580	525	580	420	464	Doosan	DP158 LD	1500
AD 630	575	630	460	504	Doosan	DP180 LA	1500
AD 710	640	710	512	568	Doosan	DP180 LB	1500
AD 750	680	750	544	600	Doosan	DP222 LB	1500
AD 825	750	825	600	660	Doosan	DP222 LC	1500
APD 825 M	750	825	600	660	Mitsubishi	S6R2-PTAA	1500
APD 880 M	800	880	640	704	Mitsubishi	S12A2-PTA	1500
APD 1100 M	1030	1100	824	880	Mitsubishi	S12H-PTA	1500
APD 1425 M	1290	1425	1032	1140	Mitsubishi	S12R-PTA	1500
APD 1650 M	1500	1650	1200	1320	Mitsubishi	S12R-PTAA2	1500
APD 1915 M	1750	1915	1400	1532	Mitsubishi	S16R-PTA	1500
APD 2100 M	1875	2100	1500	1680	Mitsubishi	S16R-PTA2	1500
APD 2250 M	2000	2250	1600	1800	Mitsubishi	S16R-PTAA2	1500
APD 2500 M	2250	2500	1800	2000	Mitsubishi	S16R2-PTAW	1500

- The manufacturer reserves the right to change, alter or otherwise improve the system at any time without prior notice.
 - The above ratings represent the engine performance capabilities to conditions specified in ISO8528, ISO3046

DIESEL 50 Hz., 400 / 230 V.

GENSET Model	POWER cos φ:0,8 kVA		POWER kW		ENGINE		
	Prime	Standby	Prime	Standby	Make	Model	RPM
AVP 275	250	275	200	220	Volvo	TAD 734GE	1500
AVP 350	320	350	256	280	Volvo	TAD 1341GE	1500
AVP 385	350	385	280	308	Volvo	TAD 1342GE	1500
AVP 415	380	415	304	332	Volvo	TAD 1343GE	1500
AVP 450	410	450	328	360	Volvo	TAD 1344GE	1500
AVP 505	455	505	364	404	Volvo	TAD 1345GE	1500
AVP 550	500	550	400	440	Volvo	TAD 1641GE	1500
AVP 655	595	655	476	524	Volvo	TAD 1642GE	1500
AVP 700	636	700	508,8	560	Volvo	TWD 1643GE	1500
AVP 770	700	770	560	616	Volvo	TWD1645GE	1500
AP 15	13	14,5	10,4	11,6	Perkins	403A-15G1	1500
AP 22	20	22	16	17,6	Perkins	404A-22G1	1500
AP 33	30	33	24	26,4	Perkins	1103A-33G	1500
AP 50	45	50	36	40	Perkins	1103A-33TG1	1500
AP 72	66	72	52,8	57,6	Perkins	1104A-44TG1	1500
AP 88	80	88	64	70,4	Perkins	1104A-44TG2	1500
AP 110	100	110	80	88	Perkins	1104C-44TAG2	1500
AP 150	135	150	108	120	Perkins	1106A-70TG1	1500
AP 165	150	165	120	132	Perkins	1106A-70TAG2	1500
AP 200	180	200	144	160	Perkins	1106A-70TAG3	1500
AP 220	200	220	160	176	Perkins	1106A-70TAG4	1500
AP 275	250	275	200	220	Perkins	1206A-E70TTAG3	1500
AP 330	300	330	240	264	Perkins	1506A-E88TAG5	1500
AP 385	350	385	280	308	Perkins	2206A-E13TAG2	1500
AP400	350	400	280	320	Perkins	2206A-E13TAG3	1500
AP 440	400	440	320	352	Perkins	2206A-E13TAG3	1500
AP 450	410	450	328	360	Perkins	2206A-E13TAG3	1500
AP 500	455	500	364	400	Perkins	2506A-E15TAG1	1500
AP 550	500	550	400	440	Perkins	2506A-E15TAG2	1500
AP 660	600	660	480	528	Perkins	2806A-E18TAG1A	1500
AP 715	650	715	520	572	Perkins	2806A-E18TAG2	1500
AP 825	750	825	600	660	Perkins	4006-23TAG2A	1500
AP 880	800	880	640	704	Perkins	4006-23TAG3A	1500
AP 900	805	900	644	720	Perkins	4006-23TAG3A	1500
AP 1000	910	1000	728	800	Perkins	4008-TAG1A	1500
AP 1125	1023	1125	818,4	900	Perkins	4008-TAG2A	1500
AP 1250	1125	1250	900	1000	Perkins	4008-30TAG3	1500
AP 1400	1265	1400	1012	1120	Perkins	4012-46TWG2A	1500
AP 1650	1500	1650	1200	1320	Perkins	4012-46TAG2A	1500
AP 1875	1705	1875	1364	1500	Perkins	4012-46TAG3A	1500
AP 2500	2250	2500	1800	2000	Perkins	4016-61TRG3	1500
APD 12E	11	12	8,8	9,6	AKSA	A2CRX08	3000
APD 13A	11	12	8,8	9,6	AKSA	A3CRX14	1500
APD 17A	16	17	12,8	13,6	AKSA	A4CRX18	1500
APD 25A	22	25	17,6	20	AKSA	A4CRX24	1500
APD 40A	36	40	28,8	32	CROWN KRAFT	CKX4D36	1500
APD 52A	45	50	36	40	CROWN KRAFT	CKX4D36T	1500
APD 70A	64	70	51,2	56	CROWN KRAFT	CKX4D39T	1500
APD 90A	80	90	64	72	CROWN KRAFT	CKX4D43T	1500
APD 110C	100	110	80	88	Cummins	6BT 5,9 - G2	1500
APD 112A	100	110	80	88	CROWN KRAFT	CKX6D65T	1500
APD 145C	132	145	105,6	116	Cummins	6BTAA 5,9 - G2	1500
APD 150A	135	150	108	120	CROWN KRAFT	CKX6D68TI	1500
APD 175A	160	175	128	140	CROWN KRAFT	CKX6D70TI	1500
APD 200C	180	200	144	160	Cummins	6CTA 8,3 - G2	1500
APD 201A	182	200	145,6	160	CROWN KRAFT	CKX6D74TI	1500
APD 275C	250	275	200	220	Cummins	6LTAA 8,9 - G2	1500

GENERATORS



Manufacturing and Trading enterprises sl

NATURAL GAS

50 Hz., 400 / 230 V.

GENSET Model	POWER cos φ:0,8 kVA		POWER kW		ENGINE		
	Prime	Standby	Prime	Standby	Make	Model	RPM
APG 80	72,5	80	58	64	PSI	8,8 LNA	1500
APG 100	90	100	72	80	PSI	8,8 LNA	1500
ALG 33	30	33	24	26,4	LOVOL	1004NG	1500
ALG 45	41	45	32,8	36	LOVOL	1006NG	1500
ADG 210	190	210	152	168	Doosan / PSI	GE 12 TI	1500
ADG 275	250	275	200	220	Doosan / PSI	GV 158 TI	1500
ADG 350	320	350	256	280	Doosan / PSI	GV 180 TI	1500
ADG 428	387	428	309,6	342,4	Doosan / PSI	GV 222 TI	1500

SINGLE-PHASE

P.F.:1 50 Hz.,230V

GENSET Model	Prime Power kW	Standby Power kW	Make	Model	RPM
APD 12EM	8,8	9,6	AKSA	A2CRX08	3000
APD 16MA	10	11	AKSA	A4CRX18	1500
APD 20MA	15	16,5	AKSA	A4CRX24	1500

PORTABLE

50 Hz., 230 & 400 V

GENSET Model	NOMINAL POWER (ISO 8528) kW	ENGINE	FUEL	PHASE	RPM
AAP 1200	0,9	4 Stroke, OHV.	Gasoline	1	3000
AAP 2200i	2	4 Stroke, OHV.	Gasoline	1	3000
AAP 3500	2,5	4 Stroke, OHV.	Gasoline	1	3000
AAP 3500 E	2,5	4 Stroke, OHV.	Gasoline	1	3000
AAP 5500	4	4 Stroke, OHV.	Gasoline	1	3000
AAP 5500 E	4	4 Stroke, OHV.	Gasoline	1	3000
AAP 8000 E	6	4 Stroke, OHV.	Gasoline	1	3000
AAP 8000 E3	6	4 Stroke, OHV.	Gasoline	3	3000
AB 110 ME	8	4 Stroke, OHV.	Gasoline	1	3000
AB 110 TE	8	4 Stroke, OHV.	Gasoline	3	3000
AB 150 TE	11,6	4 Stroke, OHV.	Gasoline	3	3000
AAP 4200 DE*	4,2	4 Stroke, OHV.	Diesel	1	3000
AAP 8000 DE*	5,5	4 Stroke, OHV.	Diesel	1	3000
AAP 8000 DE	6,3	4 Stroke, OHV.	Diesel	1	3000
AAP 8000 DE3	6	4 Stroke, OHV.	Diesel	3	3000

* This model is canopy type.

DIESEL

60 Hz., 1800 rpm

GENSET Model	480/277 V. POWER kVA		380/220 V. POWER kVA		208/120 V. POWER kVA		ENGINE	
	Standby	Prime	Standby	Prime	Standby	Prime	Make	Model
AC169-6	169	154	149	135	154	140	Cummins	6BTA5.9G6
AC363-6	363	329	361	328	363	328	Cummins	NT855 G6
AC394-6	394	344	385	341	394	343	Cummins	QSL9 G5
AC444-6	444	403	444	403	N/A	N/A	Cummins	NTA855 G3
AC500-6	500	454	495	450	N/A	N/A	Cummins	QXS15 G6
AC620-6	620	558	619	555	N/A	N/A	Cummins	KTA19 G4
AC625-6	625	563	578	525	625	563	Cummins	QXS15 G9
AC626-6	626	565	625	563	N/A	N/A	Cummins	QXS15 G9
AC750-6	750	681	750	681	N/A	N/A	Cummins	VTA28 G5
AC1013-6	1013	915	901	820	N/A	N/A	Cummins	QSK23 G3
AC1025-6	1025	925	1020	920	N/A	N/A	Cummins	QSK23 G3
AC1150-6	1150	1039	1070	950	N/A	N/A	Cummins	QST30 G3
AC1151-6	1151	1039	1144	1032	N/A	N/A	Cummins	QST30 G3
AC1269-6	1269	1150	1150	1045	N/A	N/A	Cummins	QST30 G4
AC1270-6	1270	1153	1270	1150	1270	1150	Cummins	QST30 G4
AC1575-6	1575	1481	1532	1393	N/A	N/A	Cummins	KTA50 G3
AC1594-6	1594	1494	1451	1320	N/A	N/A	Cummins	KTA50 G3
AC1913-6	1913	1594	1705	1550	N/A	N/A	Cummins	KTA50 G9
AC1894-6	1894	1581	1713	1557	N/A	N/A	Cummins	KTA50 G9
AC2500-6	2500	2269	2375	2160	N/A	N/A	Cummins	QSK60 G6 QSK60 G7

AD250-6	250	229	222	200	250	229	Doosan	P086TI
AD251-6	253	233	248	225	251	231	Doosan	P086TI
AD331-6	331	300	275	250	319	290	Doosan	P126TI
AD338-6	338	316	331	300	338	313	Doosan	P126TI
AD385-6	388	349	330	300	358	325	Doosan	P126TI-II
AD388-6	391	350	388	346	388	346	Doosan	P126TI-II
AD445-6	450	408	445	404	N/A	N/A	Doosan	DP126LB
AD509-6	513	449	450	410	N/A	N/A	Doosan	P158LE
AD510-6	510	446	508	444	N/A	N/A	Doosan	P158LE
AD576-6	583	528	561	510	N/A	N/A	Doosan	DP158LC
AD580-6	580	525	575	522	578	524	Doosan	DP158LC
AD630-6	638	578	616	560	N/A	N/A	Doosan	DP158LD
AD634-6	634	574	630	571	631	573	Doosan	DP158LD
AD703-6	710	645	699	635	N/A	N/A	Doosan	DP180LA
AD758-6	769	696	759	690	N/A	N/A	Doosan	DP180LB
AD883-6	893	811	759	690	N/A	N/A	Doosan	DP222LB
AD884-6	883	800	875	800	878	796	Doosan	DP222LB
AD938-6	951	864	839	763	N/A	N/A	Doosan	DP222LC
AD943-6	943	855	937	850	939	851	Doosan	DP222LC

AP40-6	40	36	33	30	36	33	Perkins	1103A-33G
AP60-6	60	55	55	50	59	53	Perkins	1103A-33TG1
AP86-6	86	78	83	75	85	77	Perkins	1104A-44TG1
AP102-6	102	93	91	83	97	88	Perkins	1104A-44TG2
AP131-6	131	120	115	105	126	115	Perkins	1104C-44TAG2
AP175-6	175	159	149	135	154	140	Perkins	1106A-70TG1
AP194-6	194	175	165	150	165	150	Perkins	1106A-70TAG2
AP224-6	224	201	198	180	221	200	Perkins	1106A-70TAG3
AP393-6	393	355	330	300	358	325	Perkins	1506A-E88TAG5
AP453-6	453	414	449	410	N/A	N/A	Perkins	2206A-E13TAG2
AP583-6	583	518	561	510	N/A	N/A	Perkins	2506A-E15TAG1
AP719-6	719	653	699	635	N/A	N/A	Perkins	2806A-E18TAG1A
AP849-6	849	773	838	763	N/A	N/A	Perkins	4006-23TAG2A
AP948-6	948	854	903	820	N/A	N/A	Perkins	4006-23TAG3A
AP1408-6	1408	1274	1394	1264	N/A	N/A	Perkins	4012-46TWG2A
AP1688-6	1688	1534	1670	1520	N/A	N/A	Perkins	4012-46TAG2A
AP1913-6	1913	1740	1890	1721	N/A	N/A	Perkins	4012-46TAG3A

AJD35-6	35	31	33	30	35	31	John Deere	3029DF129
AJD49-6	49	44	46	43	49	44	John Deere	3029TF129
AJD86-6	86	77	84	75	85	76	John Deere	4045TF120
AJD96-6	96	88	94	85	96	88	John Deere	4045 TF220
AJD120-6	120	110	116	105	120	110	John Deere	4045 HF120
AJD121-6	121	110	119	108	119	109	John Deere	4045 HF120
AJD156-6	156	141	132	120	144	131	John Deere	6068 TF220
AJD158-6	158	144	156	141	156	141	John Deere	6068 TF220
AJD185-6	185	169	185	169	185	169	John Deere	6068 HF120
AJD221-6	221	201	199	180	221	201	John Deere	6068 HF120
AJD228-6	228	206	222	200	225	203	John Deere	6068 HF120
AJD285-6	285	259	275	250	283	258	John Deere	6068HFG55

AVP289-6	293	265	275	250	290	263	Volvo	TAD734GE
AVP381-6	383	348	378	344	379	345	Volvo	TAD1341GE
AVP441-6	444	408	385	350	418	380	Volvo	TAD1342GE
AVP444-6	444	406	439	403	440	405	Volvo	TAD1342GE
AVP456-6	461	420	451	410	N/A	N/A	Volvo	TAD 1343GE
AVP511-6	514	468	506	460	N/A	N/A	Volvo	TAD1344GE
AVP641-6	649	578	561	510	N/A	N/A	Volvo	TAD1641GE
AVP650-6	650	579	646	576	648	576	Volvo	TAD1641GE
AVP696-6	704	641	695	635	N/A	N/A	Volvo	TAD1642GE
AVP766-6	776	706	759	690	N/A	N/A	Volvo	TWD1643GE
AVP765-6	765	695	760	693	764	694	Volvo	TWD1643GE
AVP824-6	824	749	813	741	N/A	N/A	Volvo	TWD1645GE

SUBMERSIBLE MOTORS

STAINLESS STEEL SUBMERSIBLE PUMP

DEEP WELL PUMPS

SOLAR ENERGIES

CENTRIFUGAL PUMPS

PIPES

AGRICULTURAL EQUIPMENTS

TRANSFORMERS

GENERATORS

