8” (200 mm)

Electric submersible pumps
for 8" boreholes

APPLICATION

Multistage electric submersible pumps for installations in agricultural, civil and industrial environments.
Suitable to pump clean water from boreholes, tanks and reservoirs.
They are recommended to pressurize water plants in block of flats, irrigation and fire-fighting systems.

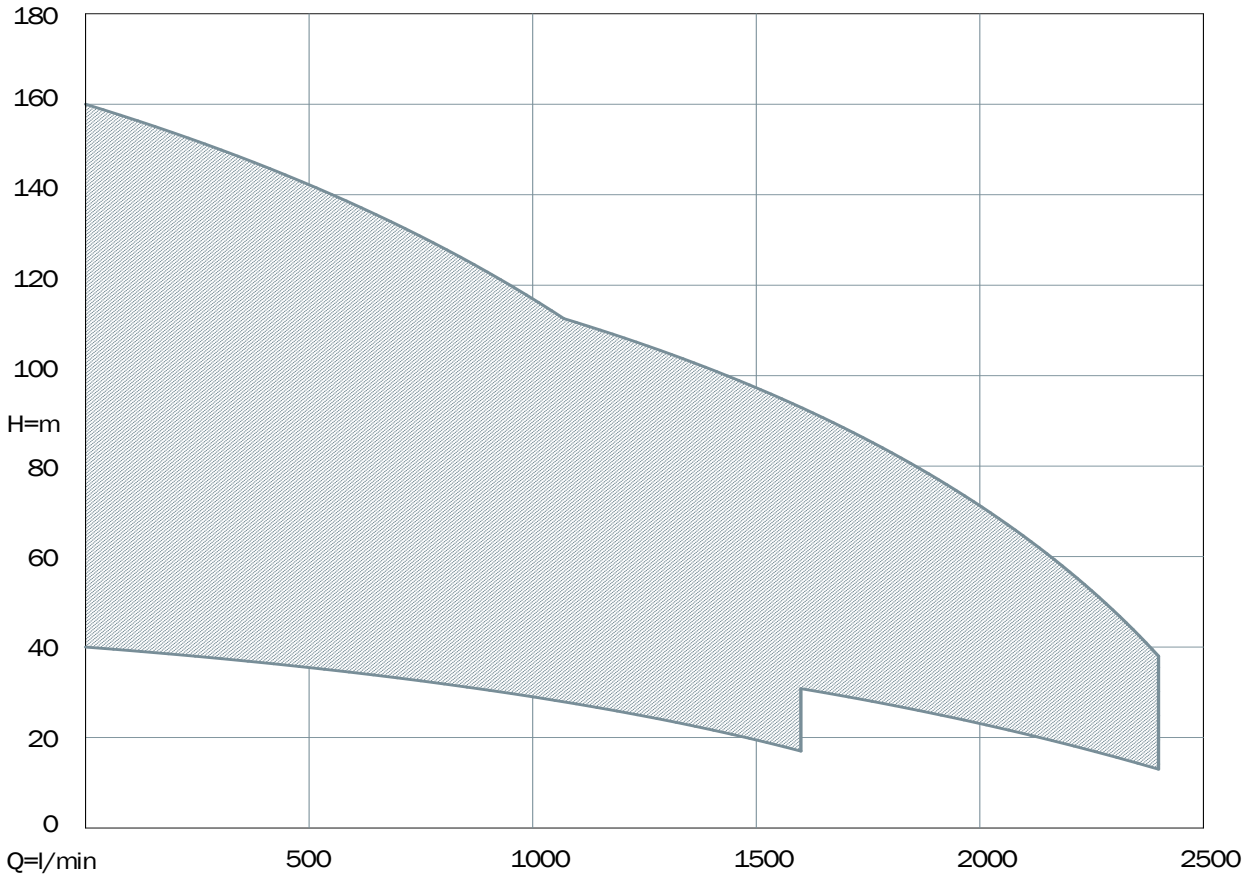
CONSTRUCTION

Water filled, asynchronous, rewindable electric AC motor with short circuit rotor. Insulation Class Y

Shafts machined on ball bearings and mechanical seals location

Both shaft and coupling meet NEMA standards

APPLICATION RANGE



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APPLICATION FEATURES - PUMP END

	/1600	/2400
Minimum depth of the liquid pumped (m)	1,2	
Maximum temperature of the water pumped (°C)	45	
PH of the liquid pumped	6 - 10	
Maximum sand content (g/m^3)	50	
Suitable to operate horizontally (included)	All	

MATERIALS - PUMP END

	/1600	/2400
Head	Mechanical cast iron EN GJL-200	
Suction Body	Mechanical cast iron EN GJL-200	
Shaft	Stainless steel AISI410	
Coupling	Stainless steel AISI410	
Impellers	Stainless steel AISI410	
Diffusers	Mechanical cast iron EN GJL-200	
Bearings	Antifriction rubber with rotating element in Stainless Steel AISI410	
Check valve	Stainless steel AISI304	

APPLICATION FEATURES - MOTOR

	MOTOR 6"
IP rating	IP68
Duty	Continuous S1
Maximum immersion depth (m)	200
Maximum number of starts per hour	20
Maximimum temperature of the water pumped (°C)	30
PH of the liquid pumped	6 - 10
Suitable for inverter drive	All
Suitable to operate horizontally (Included)	All

MATERIALS - MOTOR

	MOTOR 6"
Casing	Stainless Steel AISI304
Shaft Terminal	Stainless Steel AISI420B
Upper body	Mechanical cast iron with electrophoresis paint EN GJL-250 or brass OT58
Elastomers	NBR rubber
Mechanical seal	Graphite and alumina
Foot	ABS
Cable	PVC ACS AD8 (for permanent immersion in drinking water)

Electric submersible pumps
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PERFORMANCE DATA - PUMP ENDS - 2 poles 50 Hz

Semi-axial impeller 	P2		DNM (GAS)	Q	Flow										
	hp	kW		m^3/h	0	30	48	60	72	84	96	108	120	132	144
				l/min	0	500	800	1000	1200	1400	1600	1800	2000	2200	2400
SERIES 1600															
6TA10 2/1600	10	7,5	4"	H (m)	40	35	32	29	25	21	17				
6TA15 3/1600	15	11	4"		60	53	48	44	38	31	25				
6TA20 4/1600	20	15	4"		80	70	64	58	51	42	34				
6TA25 5/1600	25	18,5	4"		100	88	80	73	64	52	42				
6TA30 6/1600	30	22	4"		120	105	96	88	76	62	51				
6TA35 7/1600	35	26	4"		140	123	112	102	89	73	59				
6TA40 8/1600	40	30	4"		160	140	128	117	102	83	67				
SERIES 2400															
6TA15 2/2400	15	11	5"	H (m)	45			39	37	34	31	27	22	18	13
6TA25 3/2400	25	18,5	5"		68			58	56	52	47	40	33	26	19
6TA30 4/2400	30	22	5"		90			78	74	69	62	53	44	35	26
6TA40 5/2400	40	30	5"		113			97	93	86	78	67	55	44	32
6TA50 6/2400	50	37	5"		135			116	111	103	93	80	66	52	38

PERFORMANCE DATA - MOTORS - 2 poles 50 Hz

	Code	Voltage	Number of phases	P2		Axial load	Rotation	Nominal current	Start current	Start Torque	Efficiency %	Power factor	Size of cable	Length of cable
						F	n_N	I_N	I_A	M_A				
		V		hp	kW	N	min^{-1}	A	A	Nm	η_N	cos ø	mm^2	m
WATER FILLED SUBMERSIBLE MOTORS for 6" boreholes														
6TA55	M6TA55/2	400	3	5,5	4	8000	2900	10,6	55	34	81	0,7	4 x 4	3
6TA75	M6TA75/2	400	3	7,5	5,5	8000	2840	12,8	55	34	81	0,77	4 x 4	3
6TA10	M6TA10/2	400	3	10	7,5	8000	2830	17	73	51	80	0,79	4 x 4	3
6TA125	M6TA125/2	400	3	12,5	9,2	8000	2830	21,5	90	69	80	0,78	4 x 4	3
6TA15	M6TA15/2	400	3	15	11	8000	2850	24,8	110	80	81	0,79	4 x 4	3
6TAH15	M6TA15H/2	400	3	15	11	18000	2850	24,8	110	80	81	0,79	4 x 4	3
6TA20	M6TA20/2	400	3	20	15	18000	2880	30,7	140	63	85	0,8	4 x 4	3
6TA25	M6TA25/2	400	3	25	18,5	18000	2870	39,6	160	74	85	0,8	4 x 6	3
6TA30	M6TA30/2	400	3	30	22	18000	2900	46	180	97	86	0,8	4 x 6	3
6TA35	M6TA35/2	400	3	35	26	18000	2910	55,5	270	130	88	0,76	4 x 6	3
6TA40	M6TA40/2	400	3	40	30	18000	2900	62	270	130	87	0,8	4 x 6	3
6TA50	M6TA50/2	400	3	50	37	18000	2900	81,8	360	155	87	0,8	4 x 6	3

Electric submersible pumps series 1600
for 8" boreholes

PERFORMANCE DATA - 2 poles 50 Hz

Semi-axial impeller	Pump Code	Motor Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Cable	Weight
					hp	kW		l/min	m		A	B	C	m	kg
6TA10 2/1600	P1600/02	M6TA10/2	400 V	3-phase	10	7,5	17	500 - 1000 - 1600	35 - 29 - 17	4"	1357	697	196	3	82,9
6TA15 3/1600	P1600/03	M6TA15/2	400 V	3-phase	15	11	24,8	500 - 1000 - 1600	53 - 44 - 25	4"	1552	762	196	3	100,3
6TA20 4/1600	P1600/04	M6TA20/2	400 V	3-phase	20	15	30,7	500 - 1000 - 1600	70 - 58 - 34	4"	1777	857	196	3	122,2
6TA25 5/1600	P1600/05	M6TA25/2	400 V	3-phase	25	18,5	39,6	500 - 1000 - 1600	88 - 73 - 42	4"	1947	897	196	3	136,9
6TA30 6/1600	P1600/06	M6TA30/2	400 V	3-phase	30	22	46	500 - 1000 - 1600	105 - 88 - 51	4"	2177	997	196	3	158,1
6TA35 7/1600	P1600/07	M6TA35/2	400 V	3-phase	35	26	55,5	500 - 1000 - 1600	123 - 102 - 59	4"	2437	1127	196	3	182,6
6TA40 8/1600	P1600/08	M6TA40/2	400 V	3-phase	40	30	62	500 - 1000 - 1600	140 - 117 - 67	4"	2567	1127	196	3	193

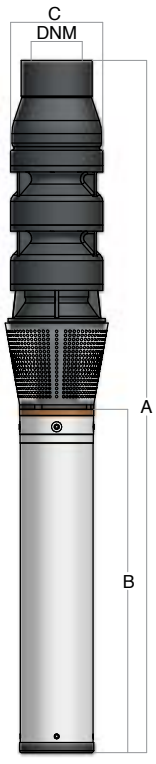
SUPPLIED WITH

Pump end with two cables

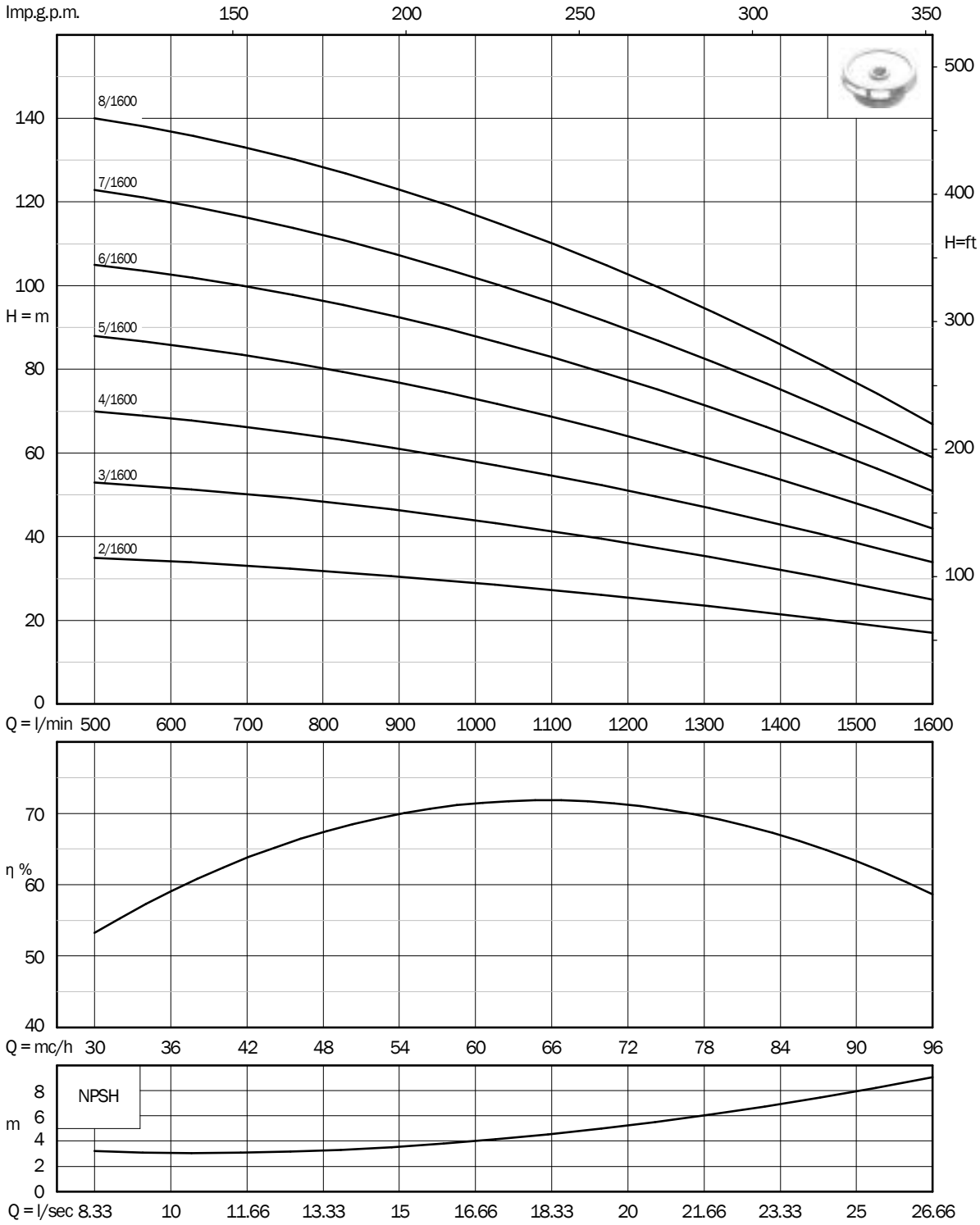
OPTIONS

Version for star-delta motors 400/690 V

Version with brass motor body



PERFORMANCE CURVES - 2 poles 50 Hz



Electric submersible pumps series 2400
for 8" boreholes

PERFORMANCE DATA - 2 poles 50 Hz

Semi-axial impeller	Pump Code	Motor Code	Version		P2		A	Flow		DNM (GAS)	Dimensions (mm)			Cable	Weight
					hp	kW		l/min	m		A	B	C	m	kg
6TA15 2/2400	P2400/02	M6TA15/2	400 V	3-phase	15	11	24,8	1000 - 1600 - 2400	39 - 31 - 13	5"	1425	762	196	3	91,6
6TA25 3/2400	P2400/03	M6TA25/2	400 V	3-phase	25	18,5	39,6	1000 - 1600 - 2400	58 - 47 - 19	5"	1690	897	196	3	117,7
6TA30 4/2400	P2400/04	M6TA30/2	400 V	3-phase	30	22	46	1000 - 1600 - 2400	78 - 62 - 26	5"	1920	997	196	3	138,9
6TA40 5/2400	P2400/05	M6TA40/2	400 V	3-phase	40	30	62	1000 - 1600 - 2400	97 - 78 - 32	5"	2180	1127	196	3	163,3
6TA50 6/2400	P2400/06	M6TA50/2	400 V	3-phase	50	37	81,8	1000 - 1600 - 2400	116 - 93 - 38	5"	2450	1267	196	3	188,7

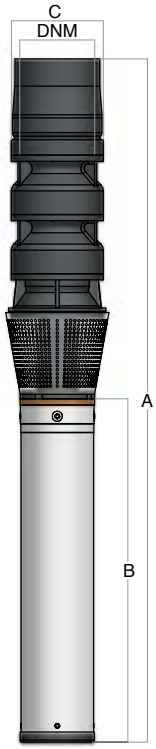
SUPPLIED WITH

Pump end with two cables

OPTIONS

Version for star-delta motors 400/690 V

Version with brass motor body



PERFORMANCE CURVES - 2 poles 50 Hz