

MATRIX

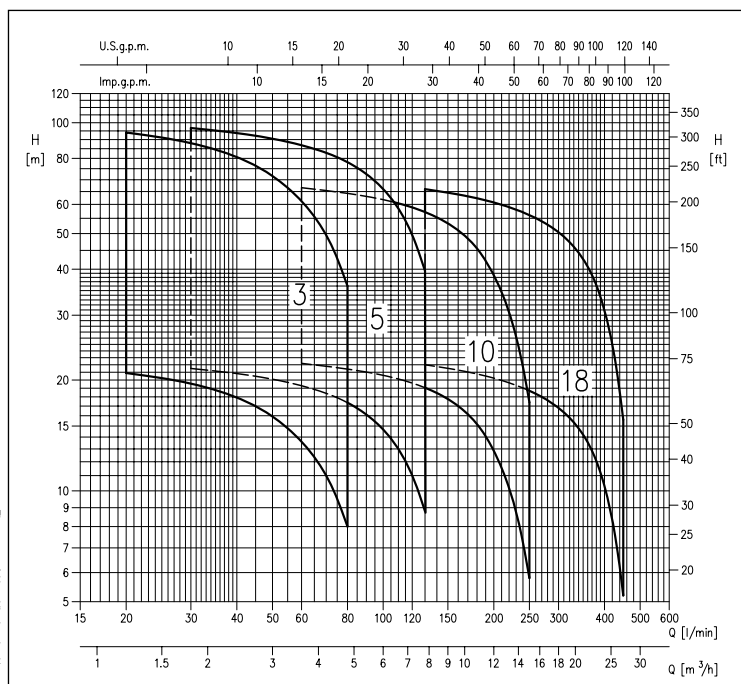
HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304



WRAS
APPROVED
PRODUCT

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

MATRIX	H	3	-	9	T	/	1.5	M
			SINGLE PHASE					
			MOTOR POWER IN [kW]					
			0.45 0.65 0.75 0.9 1.3 1.5 2.2 3.0 4.0					
			T : THREADED VERSION					
			N° OF IMPELLERS					
			2 3 4 5 6 7 8 9					
			m³/h AT MAX. EFFICIENCY					
			OPTIONAL VERSION					
			3 5 10 18					
MODEL								

Horizontal multistage centrifugal electric pumps in AISI 304 stainless steel.

APPLICATIONS

- Industrial washing
- Pressure boosting units
- Industrial plants
- Distribution and treatment of water
- Heating and air conditioning
- Cooling and chiller
- Irrigation
- Recovery of rain water

TECHNICAL DETAILS

- Sturdy and compact construction
- Available in various versions and models
- WRAS approval for the standard version (up to +85° C)

PUMP TECHNICAL DATA

- Temperature of the liquid:
 - from -15° to +85° C (standard)
 - from -15° to +110° C (for TE version for high temperature)
- Maximum working pressure: 10 bar
- Maximum chlorine content: 500 ppm
- Suction connection G1 for MATRIX 3, G1¼ for MATRIX 5, G1½ for MATRIX 10, G2 for MATRIX 18
- Discharge connection G1 for MATRIX 3-5, G1¼ for MATRIX 10, G1½ for MATRIX 18

MOTOR TECHNICAL DATA

- IE2 and IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

MATERIALS

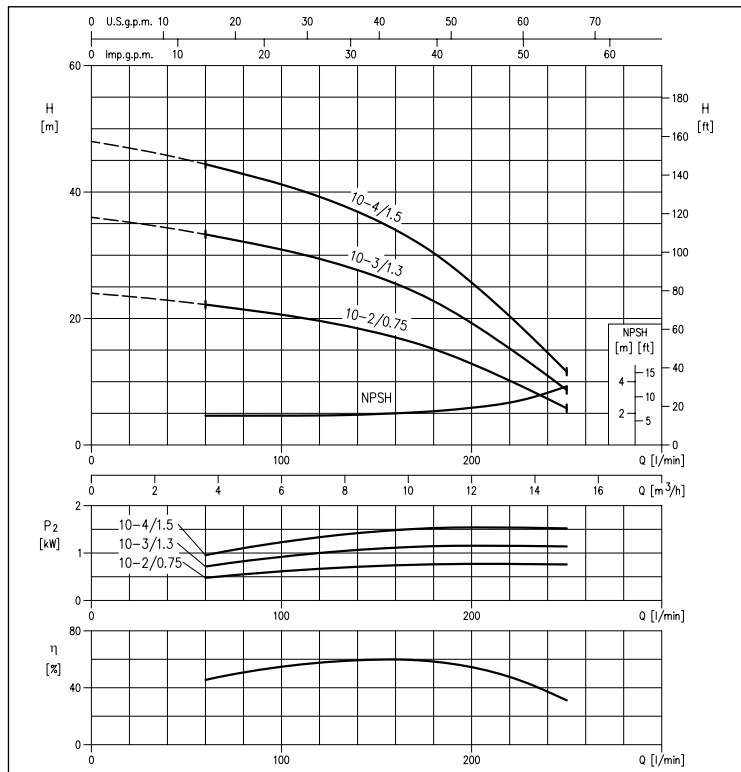
- Pump casing, impellers, intermediate stages, seal housing disc and shaft (part in contact with the liquid) in EN 1.4301 (AISI 304)
- Mechanical seal in:
 - Ceramic/Carbon/EPDM (standard)
 - Special versions: see p. 48
- Bracket in EN AB-AISI11Cu2(Fe) (microcasted aluminium)

ACCESSORIES (On request)

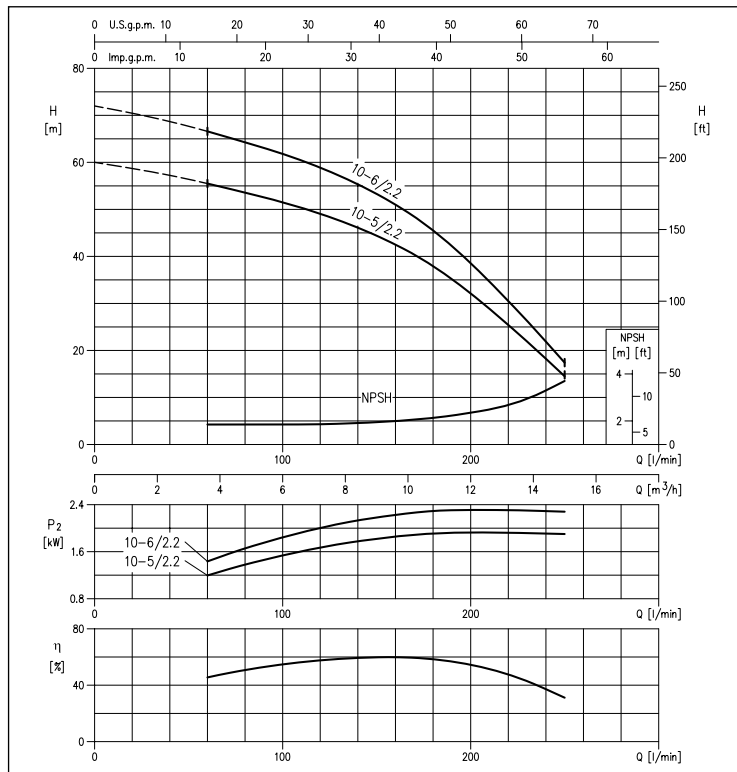
- Electric panels
- Vessels
- Floats
- Pressure switches
- Presscomfort - Pressure regulator
- E-power - Variable speed control system
- E-drive - Frequency converter

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS in AISI 304

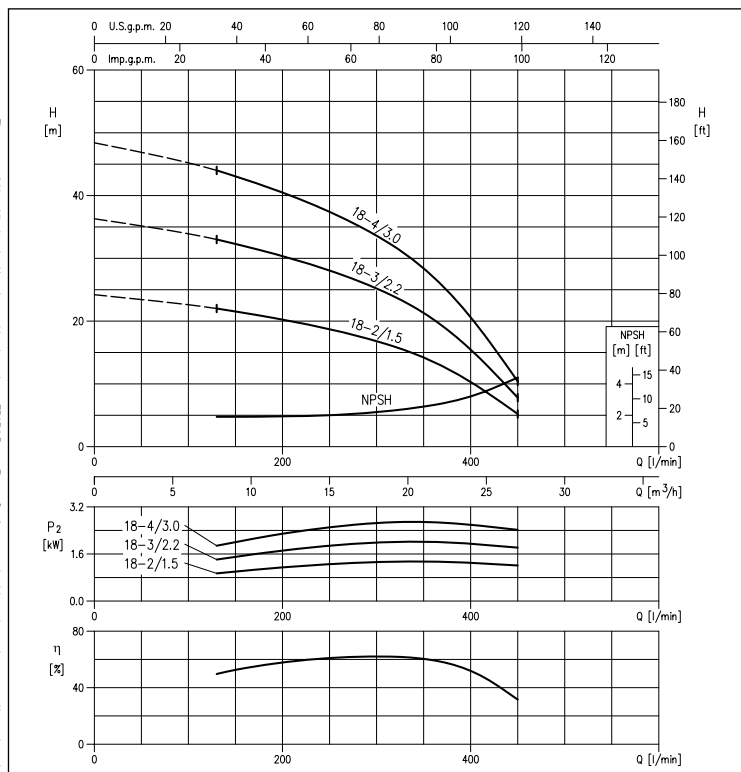
PERFORMANCE CURVES series MATRIX 10 (from 2 to 4 impellers)
(according to ISO 9906 Attachment A)



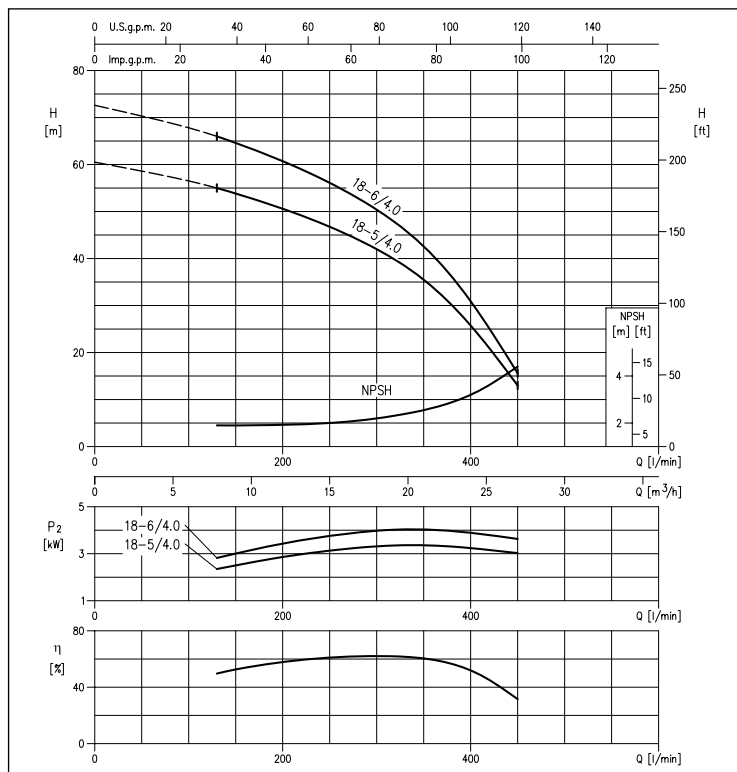
PERFORMANCE CURVES series MATRIX 10 (from 5 to 6 impellers)
(according to ISO 9906 Attachment A)



PERFORMANCE CURVES series MATRIX 18 (from 2 to 4 impellers)
(according to ISO 9906 Attachment A)



PERFORMANCE CURVES series MATRIX 18 (5 and 6 impellers)
(according to ISO 9906 Attachment A)



MATRIX

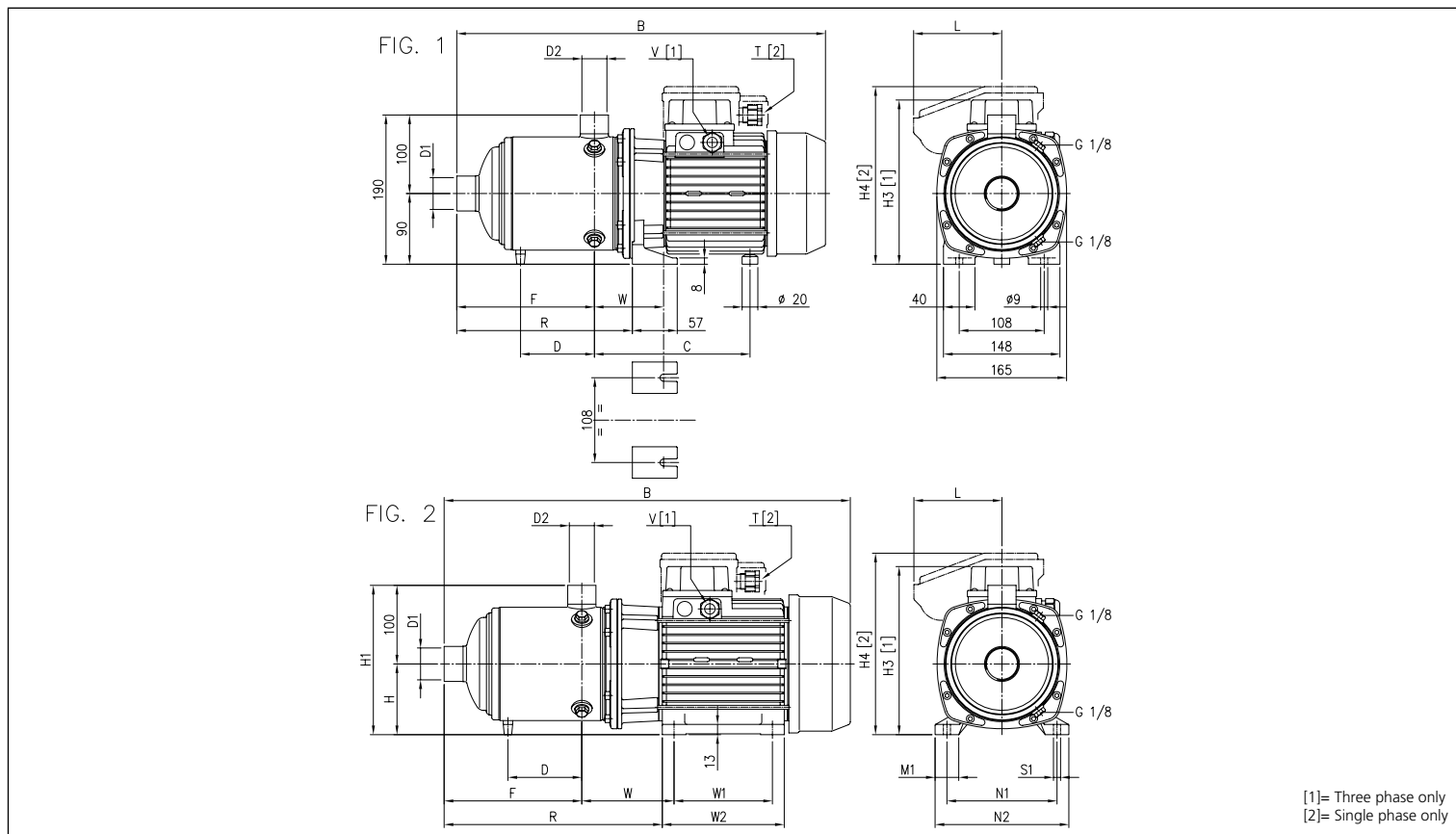
HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE CHART

Single phase 230V	Model Three phase 230/400V	P _i		Q = Flow Rate														
		[HP]	[kW]	l/min	20	30	45	60	80	100	130	160	200	250	300	350	400	450
				m³/h	1.2	1.8	2.7	3.6	4.8	6	7.8	9.6	12	15	18	21	24	27
				H=Head [m]														
MATRIX 3-2T/0.45M	MATRIX 3-2T/0.45	0.6	0.45	20.9	19.6	17.0	13.6	8.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-3T/0.65M	MATRIX 3-3T/0.65	0.9	0.65	31.4	29.3	25.5	20.4	12.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-4T/0.65M	MATRIX 3-4T/0.65	0.9	0.65	42.0	39.1	34.0	27.2	16.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-5T/0.75M	MATRIX 3-5T/0.75	1	0.75	52.5	49.0	42.5	34.0	20.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-6T/0.9M	MATRIX 3-6T/0.9	1.2	0.9	62.5	58.5	51.0	41.0	24.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-7T/1.3M	MATRIX 3-7T/1.3	1.8	1.3	73.0	68.5	59.5	47.5	28.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-8T/1.3M	MATRIX 3-8T/1.3	1.8	1.3	83.5	78.0	68.0	54.5	32.0	-	-	-	-	-	-	-	-	-	-
MATRIX 3-9T/1.5M	MATRIX 3-9T/1.5	2	1.5	94.0	88.0	76.5	61.0	36.0	-	-	-	-	-	-	-	-	-	-
MATRIX 5-2T/0.45M	MATRIX 5-2T/0.45	0.6	0.45	-	21.5	20.5	19.3	17.4	14.7	8.8	-	-	-	-	-	-	-	-
MATRIX 5-3T/0.65M	MATRIX 5-3T/0.65	0.9	0.65	-	32.3	30.7	29.0	26.0	22.0	13.2	-	-	-	-	-	-	-	-
MATRIX 5-4T/0.9 M	MATRIX 5-4T/0.9	1.2	0.9	-	43.0	41.0	38.6	34.7	29.4	17.6	-	-	-	-	-	-	-	-
MATRIX 5-5T/1.3M	MATRIX 5-5T/1.3	1.8	1.3	-	54.0	51.0	48.5	43.5	36.7	22.0	-	-	-	-	-	-	-	-
MATRIX 5-6T/1.3M	MATRIX 5-6T/1.3	1.8	1.3	-	64.5	61.5	58.0	52.0	44.0	26.4	-	-	-	-	-	-	-	-
MATRIX 5-7T/1.5 M	MATRIX 5-7T/1.5	2	1.5	-	75.5	72.0	67.5	61.0	51.5	30.8	-	-	-	-	-	-	-	-
MATRIX 5-8T/2.2 M	MATRIX 5-8T/2.2	3	2.2	-	86.0	82.0	77.0	69.5	58.5	35.2	-	-	-	-	-	-	-	-
MATRIX 5-9T/2.2 M	MATRIX 5-9T/2.2	3	2.2	-	97.0	92.0	87.0	78.0	66.0	39.6	-	-	-	-	-	-	-	-
MATRIX 10-2T/0.75M	MATRIX 10-2T/0.75	1	0.75	-	-	-	22.2	21.4	20.6	19.1	17.0	12.8	5.8	-	-	-	-	-
MATRIX 10-3T/1.3M	MATRIX 10-3T/1.3	1.8	1.3	-	-	-	33.3	32.1	30.9	28.6	25.5	19.3	8.7	-	-	-	-	-
MATRIX 10-4T/1.5M	MATRIX 10-4T/1.5	2	1.5	-	-	-	44.5	43.0	41.0	38.1	34.0	25.7	11.6	-	-	-	-	-
MATRIX 10-5T/2.2M	MATRIX 10-5T/2.2	3	2.2	-	-	-	55.5	53.5	51.5	47.5	42.5	32.1	14.5	-	-	-	-	-
MATRIX 10-6T/2.2M	MATRIX 10-6T/2.2	3	2.2	-	-	-	66.5	64.5	62.0	57.0	51.0	38.5	17.4	-	-	-	-	-
MATRIX 18-2T/1.5M	MATRIX 18-2T/1.5	2	1.5	-	-	-	-	-	-	22.0	21.3	20.2	18.7	16.8	14.2	10.3	5.2	-
MATRIX 18-3T/2.2M	MATRIX 18-3T/2.2	3	2.2	-	-	-	-	-	-	33.0	31.9	30.4	28.1	25.2	21.3	15.5	7.8	-
	MATRIX 18-4T/3	4	3	-	-	-	-	-	-	44.0	42.5	40.5	37.4	33.6	28.4	20.6	10.4	-
	MATRIX 18-5T/4	5.5	4	-	-	-	-	-	-	55.0	53.0	50.5	47.0	42.0	35.5	25.8	13.0	-
	MATRIX 18-6T/4	5.5	4	-	-	-	-	-	-	66.0	64.0	60.5	56.0	50.5	42.5	30.9	15.6	-

DIMENSIONS



HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MATRIX 3 DIMENSIONS TABLE

Model	D1	D2	Dimensions [mm]															Weight [kg]	
			B	*	C	D	F	H3 [1]	H4 [2]	L	R	T [2]	V [1]	*	W	D1	D2		
MATRIX 3-2T/0.45M	1"	1"	360	-	171	-	103	-	200	86.5	151.5	Pg11	-	-	88±97	1"	1"	8.5	-
MATRIX 3-2T/0.45			360	-	171	-	103	192	-	-	151.5	-	Pg11	-	88±97	1"	1"	8.4	-
MATRIX 3-3T/0.65M			360	-	171	-	103	-	200	86.5	151.5	Pg11	-	-	88±97	1"	1"	9.9	-
MATRIX 3-3T/0.65			360	-	171	-	103	192	-	-	151.5	-	Pg11	-	88±97	1"	1"	9.8	-
MATRIX 3-4T/0.65M			384	-	171	-	127	-	200	86.5	175.5	Pg11	-	-	88±97	1"	1"	10.6	-
MATRIX 3-4T/0.65			384	-	171	-	127	192	-	-	175.5	-	Pg11	-	88±97	1"	1"	10.4	-
MATRIX 3-5T/0.75M			408	-	171	-	151	-	200	86.5	199.5	Pg11	-	-	88±97	1"	1"	12.5	-
MATRIX 3-5T/0.75			408	408	171	-	151	192	-	-	199.5	-	Pg11	M16x1.5	88±97	1"	1"	12.4	12.4
MATRIX 3-6T/0.9M			432	-	171	-	175	-	219	106	223.5	M20x1.5	-	-	88±97	1"	1"	13.7	-
MATRIX 3-6T/0.9			444	444	171	-	175	192	-	-	223.5	-	Pg11	M16x1.5	88±97	1"	1"	13.6	13.6
MATRIX 3-7T/1.3M			493	-	198	110.5	199	-	226	112	247.5	M20x1.5	-	-	88±97	1"	1"	16.3	-
MATRIX 3-7T/1.3			493	518	198	110.5	199	209	-	-	247.5	-	Pg11	M20x1.5	88±97	1"	1"	17.0	17.9
MATRIX 3-8T/1.3M			517	-	198	134.5	223	-	226	112	271.5	M20x1.5	-	-	88±97	1"	1"	16.3	-
MATRIX 3-8T/1.3			517	542	198	134.5	223	209	-	-	271.5	-	Pg11	M20x1.5	88±97	1"	1"	17.8	18.7
MATRIX 3-9T/1.5M			541	-	198	158.5	247	-	226	112	295.5	M20x1.5	-	-	88±97	1"	1"	18.3	-
MATRIX 3-9T/1.5			554	567	198	158.5	247	209	-	-	295.5	-	Pg11	M20x1.5	88±97	1"	1"	20.0	20.9

[1]= Three phase only

[*] = IE3 motors only

[2]= Single phase only

MATRIX 5-10-18 DIMENSIONS TABLE

Model	Fig.	D1	D2	H	H1	Dimensions [mm]																	Weight [kg]					
						B	*	C	D	F	H3 [1]	H4 [2]	L	R	T	V		W	W1	W2	M1	N1	N2	S1	*			
MATRIX 5-2T/0.45 M	1	1¼	1"	-	-	360	-	171	-	103	-	200	86.5	151.5	Pg11	-	-	88÷97	-	-	-	-	-	-	8.5	-		
MATRIX 5-2T/0.45				-	-	360	-	171	-	103	192	-	-	151.5	-	Pg11	-	-	88÷97	-	-	-	-	-	-	8.4	-	
MATRIX 5-3T/0.65 M				-	-	360	-	171	-	103	-	200	86.5	151.5	Pg11	-	-	-	-	88÷97	-	-	-	-	-	-	9.9	-
MATRIX 5-3T/0.65				-	-	360	-	171	-	103	192	-	-	151.5	-	Pg11	-	-	-	88÷97	-	-	-	-	-	-	9.8	-
MATRIX 5-4T/0.9 M				-	-	384	-	171	-	127	-	219	106	175.5	M20x1.5	-	-	-	-	88÷97	-	-	-	-	-	-	12.2	-
MATRIX 5-4T/0.9				-	-	396	396	171	-	127	192	-	-	175.5	-	Pg11	M16x1.5	-	-	88÷97	-	-	-	-	-	-	12.4	12.4
MATRIX 5-5T/1.3 M				-	-	445	-	198	-	151	-	226	112	199.5	M20x1.5	-	-	-	-	88÷97	-	-	-	-	-	-	15.8	-
MATRIX 5-5T/1.3				-	-	445	470	198	-	151	209	-	-	199.5	-	Pg11	M20x1.5	-	-	88÷97	-	-	-	-	-	-	15.8	16.7
MATRIX 5-6T/1.3 M				-	-	469	-	198	-	175	-	226	112	223.5	M20x1.5	-	-	-	-	88÷97	-	-	-	-	-	-	15.2	-
MATRIX 5-6T/1.3				-	-	469	494	198	-	175	209	-	-	223.5	-	Pg11	M20x1.5	-	-	88÷97	-	-	-	-	-	-	16.2	17.1
MATRIX 5-7T/1.5 M				-	-	493	-	198	110.5	199	-	226	112	247.5	M20x1.5	-	-	-	-	88÷97	-	-	-	-	-	-	18.3	-
MATRIX 5-7T/1.5				-	-	506	518.5	198	110.5	199	209	-	-	247.5	-	Pg11	M20x1.5	-	-	88÷97	-	-	-	-	-	-	18.7	19.6
MATRIX 5-8T/2.2 M	2	1	1¼	90	190	565	-	-	134.5	223	-	231	112	325.5	M20x1.5	-	-	117.5	125	155	30	140	170	9	22.3	-		
MATRIX 5-8T/2.2	1			-	-	530	542.5	198	134.5	223	209	-	-	271.5	-	Pg11	M20x1.5	-	88÷97	-	-	-	-	-	-	18.7	19.6	
MATRIX 5-9T/2.2 M	2			90	190	589	-	-	158.5	247	-	231	112	349.5	M20x1.5	-	-	-	117.5	125	155	30	140	170	9	23.3	-	
MATRIX 5-9T/2.2	1			-	-	554	566.5	198	158.5	247	209	-	-	295.5	-	Pg11	M20x1.5	-	88÷97	-	-	-	-	-	-	18.8	19.7	
MATRIX 10-2T/0.75 M	1	1½	1¼	-	-	379	-	175	-	118	-	200	86.5	170.5	Pg11	-	-	92±101	-	-	-	-	-	-	11.3	-		
MATRIX 10-2T/0.75				-	-	379	379	175	-	118	192	-	-	170.5	-	Pg11	M16x1.5	-	92±101	-	-	-	-	-	-	11.2	11.2	
MATRIX 10-3T/1.3 M				-	-	416	-	202	-	118	-	226	112	170.5	M20x1.5	-	-	-	92±101	-	-	-	-	-	-	14.3	-	
MATRIX 10-3T/1.3				-	-	416	441	202	-	118	209	-	-	170.5	-	Pg11	M20x1.5	-	-	92±101	-	-	-	-	-	-	13.6	14.5
MATRIX 10-4T/1.5 M				-	-	446	-	202	-	148	-	226	112	200.5	M20x1.5	-	-	-	92±101	-	-	-	-	-	-	15.6	-	
MATRIX 10-4T/1.5				-	-	459	471.5	202	-	148	209	-	-	200.5	-	Pg11	M20x1.5	-	-	92±101	-	-	-	-	-	-	17.3	18.2
MATRIX 10-5T/2.2 M				2	90	190	524	-	-	-	178	-	231	112	284.5	M20x1.5	-	-	-	121.5	125	155	30	140	170	9	21.8	-
MATRIX 10-5T/2.2				1	-	-	489	501.5	202	-	178	209	-	-	230.5	-	Pg11	M20x1.5	-	92±101	-	-	-	-	-	-	17.9	18.8
MATRIX 10-6T/2.2 M				2	90	190	554	-	-	118.5	208	-	231	112	314.5	M20x1.5	-	-	-	121.5	125	155	30	140	170	9	22.1	-
MATRIX 10-6T/2.2				1	-	-	519	531.5	202	118.5	208	209	-	-	260.5	-	Pg11	M20x1.5	-	92±101	-	-	-	-	-	-	18.3	19.2
MATRIX 18-2T/1.5M	1	2	1½	-	-	442	-	205	-	141	-	226	112	196.5	M20x1.5	-	-	95 ± 104	-	-	-	-	-	-	14.5	-		
MATRIX 18-2T/1.5M	-			-	455	467.5	205	-	141	209	-	-	196.5	-	Pg11	M20x1.5	-	95 ± 104	-	-	-	-	-	-	16.2	17.1		
MATRIX 18-3T/2.2M	2			90	190	490	-	-	-	141	-	231	112	250.5	M20x1.5	-	-	-	124.5	125	155	30	140	170	9	20.7	-	
MATRIX 18-3T/2.2	1			-	-	455	467.5	205	-	141	209	-	-	196.5	-	Pg11	M20x1.5	-	95 ± 104	-	-	-	-	-	-	17.2	18.1	
MATRIX 18-4T/3	2			90	190	565	565	-	-	178.5	214	-	-	288	-	Pg13.5	M20x1.5	-	124.5	125	155	35	140	170	9	23.8	23.8	
MATRIX 18-5T/4				100	200	615	615	-	123	216	241	-	-	315	-	Pg16	M20x1.5	-	114	140	170	35	160	192	11	33.2	33.2	
MATRIX 18-6T/4				100	200	652	652	-	160.5	253.5	241	-	-	352.5	-	Pg16	M20x1.5	-	114	140	170		160	192	11	34.2	34.2	

[1]= Three phase only

[*] = IE3 motors only

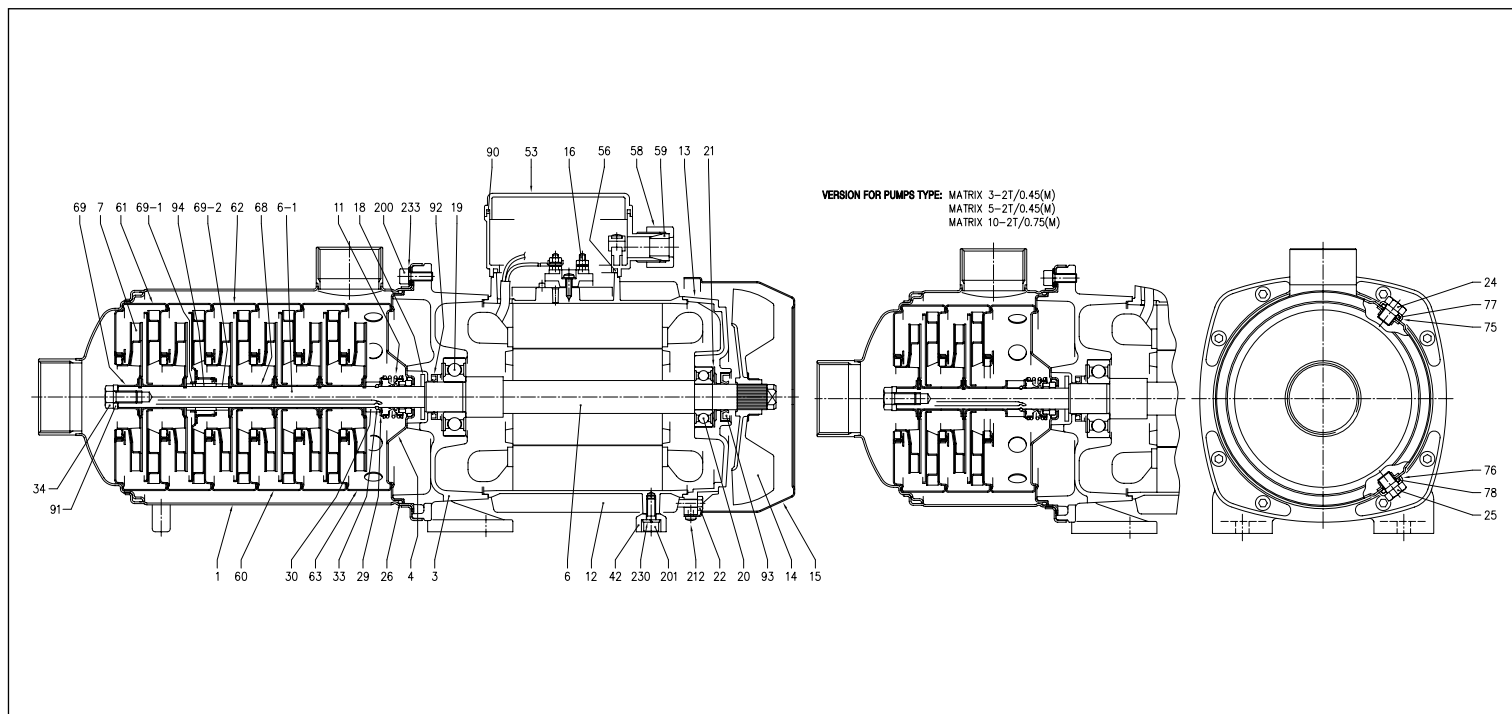
[2]= Single phase only

MATRIX

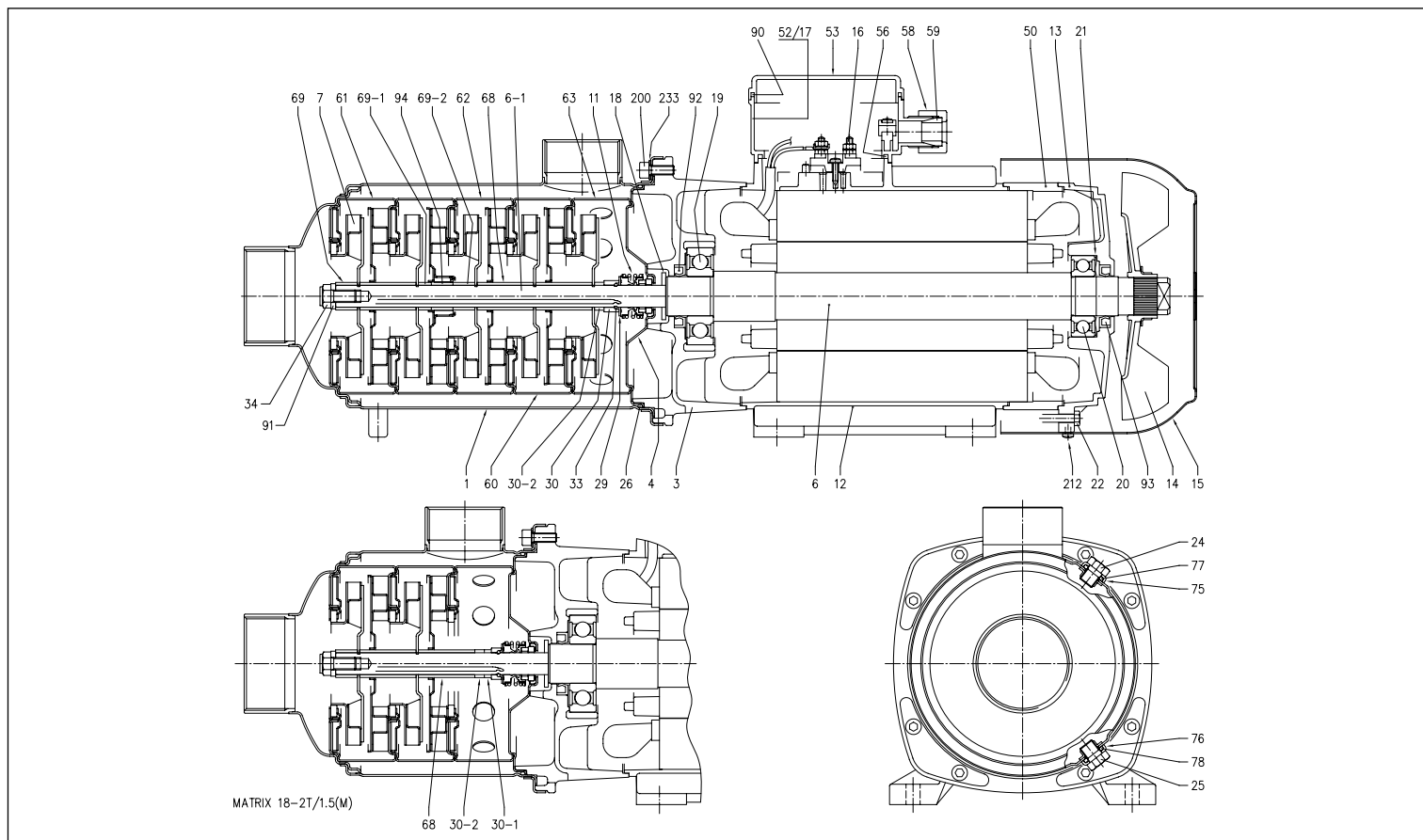
HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MATRIX 3-5-10 SECTIONAL VIEW



MATRIX 18 SECTIONAL VIEW



MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

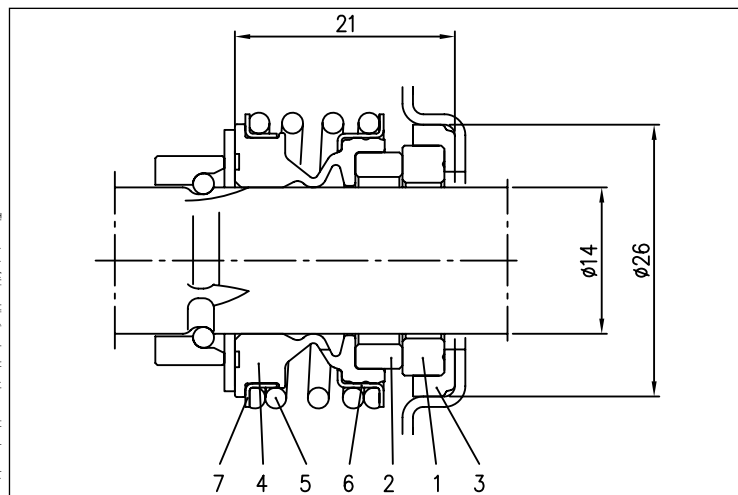
MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304)	42	Motor support	Aluminium
3	Motor bracket	EN AB-AISI11Cu2(Fe)	50	Motor spacer [2]	Aluminium
4	Casing cover	EN 1.4301 (AISI 304)	52	Capacitor-holder box [1]	ABS
6	Shaft	-	53	Capacitor-holder box cover [1]	ABS
6-1	Pump shaft	EN 1.4301 (AISI 304)	56	Box gasket	NBR
7	Impeller	EN 1.4301 (AISI 304)	58	Nut ring	-
11	Mechanical seal	Ceramic/Carbon/EPDM	59	Conic gasket	NBR
12	Motor frame	-	60	Intermediate stage	EN 1.4301 (AISI 304)+PTFE
13	Motor cover	Aluminium	61	Intermediate stage (suction)	EN 1.4301 (AISI 304)+PTFE
14	Fan	PA	62	Intermediate stage (bearing)	EN 1.4301 (AISI 304) + PTFE + Ceramic
15	Fan cover	Galvanised Fe P04	63	Intermediate stage (discharge)	EN 1.4301 (AISI 304) + PTFE
16	Terminal Box	-	68	Shaft casing (intermediate)	EN 1.4301 (AISI 304)
17	Terminal Box cover	Aluminium	69	Impeller spacer	EN 1.4301 (AISI 304)
18	Splash ring	NBR	69-1	Shaft casing (adapter)	EN 1.4301 (AISI 304)
19	Bearing (pump side)	-	69-2	Shaft casing (adapter)	EN 1.4301 (AISI 304)
20	Bearing (motor side)	-	75	Washer	EN 1.4301 (AISI 304)
21	Adjustment ring	Steel C70	76	Washer	EN 1.4301 (AISI 304)
22	Tie-rod	Galvanised Fe 42	77	O-Ring	EPDM
24	Plug	EN 1.4301 (AISI 304)	78	O-Ring	EPDM
25	Plug	EN 1.4301 (AISI 304)	90	Terminal box cover [1]	NBR
26	O-Ring	EPDM	91	Shaft washer	EN 1.4301 (AISI 304)
29	Washer	EN 1.4301 (AISI 304)	92	Seal ring	-
30	Holding ring	EN 1.4301 (AISI 304)	93	Seal ring	-
30-1-2	Shaft casing	EN 1.4301 (AISI 304)	94	Guide bush	WC - Tungsten carbide
33	Ring	EN 1.4301 (AISI 304)	200	Screw (pump body)	EN 1.4301 (AISI 304)
34	Screw	EN 1.4301 (AISI 304)	233	Plate	EN 1.4301 (AISI 304)

[1]= Single phase only

[2]= MATRIX 18-5T/4 and MATRIX 18-6T/4 only

MECHANICAL SEAL standard



MATERIALS TABLE standard

Ref.	Name	Materials
1	Fixed part	Ceramic
2	Rotating part	Carbon
3	Gasket	EPDM
4	Diaphragm	EPDM
5	Spring	EN 1.4402 (AISI 316)
6	Structure/frame	EN 1.4402 (AISI 316)
7	Retainer ring	EN 1.4402 (AISI 316)

SPECIAL MECHANICAL SEALS (on request)

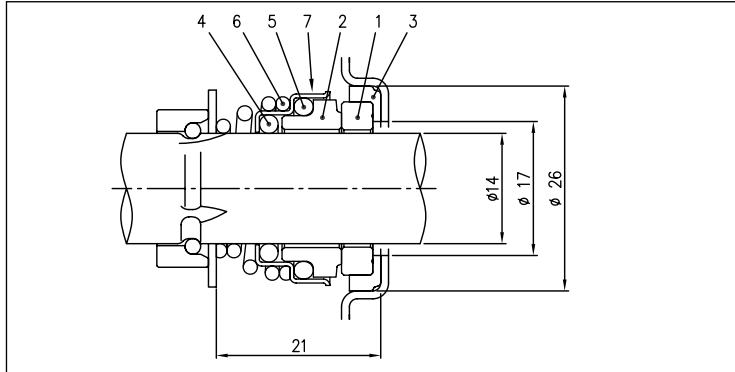
Ref.	Name	H Version	HS Version	Materials	U3Q1EGG Version	Q1AEGG Version
1	Fixed part	Carbon	Silicon Carbide		Tungsten Carbide	Silicon Carbide
2	Rotating part	Ceramic	Silicon Carbide		Silicon Carbide	Metallised carbon
3	Gasket	FKM	FKM		EPDM	EPDM
4	Diaphragm	FKM	FKM		EPDM	EPDM
5	Spring	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)		EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)
6	Structure/frame	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)		EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)
7	Retainer ring	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)		EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)

MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL HIGH TEMPERATURE



MATERIALS TABLE HIGH TEMPERATURE

Ref.	Name	Material
1	Stationary seal ring	Ceramic
2	Rotary seal ring	Carbon
3	Gasket	EPDM
4	O-Ring	EPDM
5	O-Ring	EPDM
6	Spring	EN 1.4402 (AISI 316)
7	Retainer ring	EN 1.4301 (AISI 304)

ELECTRIC DATA TABLE

Model		P ₂		Efficiency		Capacitor		Efficiency			P ₁		Absorbed Current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single phase	Three phase	Single phase μF	V _c	50%	75%	100%	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
MATRIX 3-2T/0.45M	MATRIX 3-2T/0.45	0.6	0.45	-	-	12.5	450	-	-	-	0.73	0.72	3.2	2.3	1.3
MATRIX 3-3T/0.65M	MATRIX 3-3T/0.65	0.9	0.65	-	-	16	450	-	-	-	0.97	0.85	4.5	2.8	1.6
MATRIX 3-4T/0.65M	MATRIX 3-4T/0.65	0.9	0.65	-	-	16	450	-	-	-	0.97	0.85	4.5	2.8	1.6
MATRIX 3-5T/0.75M	MATRIX 3-5T/0.75	1.0	0.75	-	IE2	25	450	77.2	80.9	81.3	1.14	0.92	5.4	3.0	1.7
-	-	1.0	0.75	-	IE3	-	-	80.9	82.3	82.1	-	0.91	-	3.0	1.7
MATRIX 3-6T/0.9M	MATRIX 3-6T/0.9	1.2	0.9	-	IE2	31.5	450	79.0	81.7	81.6	1.28	1.35	5.7	4.3	2.5
-	-	1.2	0.9	-	IE3	-	-	81.7	83.1	82.4	-	1.34	-	4.3	2.5
MATRIX 3-7T/1.3M	MATRIX 3-7T/1.3	1.8	1.3	-	IE2	35	450	79.7	82.5	83.0	1.75	1.80	7.8	5.6	3.2
-	-	1.8	1.3	-	IE3	-	-	83.0	85.8	85.6	-	1.77	-	5.8	3.3
MATRIX 3-8T/1.3M	MATRIX 3-8T/1.3	1.8	1.3	-	IE2	35	450	79.7	82.5	83.0	1.75	1.80	7.8	5.6	3.2
-	-	1.8	1.3	-	IE3	-	-	83.0	85.8	85.6	-	1.77	-	5.8	3.3
MATRIX 3-9T/1.5M	MATRIX 3-9T/1.5	2.0	1.5	-	IE2	40	450	78.6	83.0	84.2	1.95	1.78	8.7	6.3	3.7
-	-	2.0	1.5	-	IE3	-	-	82.7	86.1	87.0	-	1.72	-	6.6	3.8
MATRIX 5-2T/0.45M	MATRIX 5-2T/0.45	0.6	0.45	-	-	12.5	450	-	-	-	0.73	0.72	3.2	2.3	1.3
MATRIX 5-3T/0.65M	MATRIX 5-3T/0.65	0.9	0.65	-	-	16	450	-	-	-	0.97	0.85	4.5	2.8	1.6
MATRIX 5-4T/0.9 M	MATRIX 5-4T/0.9	1.2	0.9	-	IE2	31.5	450	79.0	81.7	81.6	1.28	1.35	5.7	4.3	2.5
-	-	1.2	0.9	-	IE3	-	-	81.7	83.1	82.4	-	1.34	-	4.3	2.5
MATRIX 5-5T/1.3M	MATRIX 5-5T/1.3	1.8	1.3	-	IE2	35	450	79.7	82.5	83.0	1.75	1.80	7.8	5.6	3.2
-	-	1.8	1.3	-	IE3	-	-	83.0	85.8	85.6	-	1.77	-	5.8	3.3
MATRIX 5-6T/1.3M	MATRIX 5-6T/1.3	1.8	1.3	-	IE2	35	450	79.7	82.5	83.0	1.75	1.80	7.8	5.6	3.2
-	-	1.8	1.3	-	IE3	-	-	83.0	85.8	85.6	-	1.77	-	5.8	3.3
MATRIX 5-7T/1.5 M	MATRIX 5-7T/1.5	2.0	1.5	-	IE2	40	450	78.6	83.0	84.2	1.95	1.78	8.7	6.3	3.7
-	-	2.0	1.5	-	IE3	-	-	82.7	86.1	87.0	-	1.72	-	6.6	3.8
MATRIX 5-8T/2.2 M	MATRIX 5-8T/2.2	3.0	2.2	-	IE2	50	450	83.0	84.4	83.8	2.92	2.63	13.0	8.2	4.7
-	-	3.0	2.2	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7
MATRIX 5-9T/2.2 M	MATRIX 5-9T/2.2	3.0	2.2	-	IE2	50	450	83.0	84.4	83.8	2.92	2.63	13.0	8.2	4.7
-	-	3.0	2.2	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7
MATRIX 10-2T/0.75M	MATRIX 10-2T/0.75	1.0	0.75	-	IE2	25	450	77.2	80.9	81.3	1.14	0.92	5.4	3.0	1.7
-	-	1.0	0.75	-	IE3	-	-	80.9	82.3	82.1	-	0.91	-	3.0	1.7
MATRIX 10-3T/1.3M	MATRIX 10-3T/1.3	1.8	1.3	-	IE2	35	450	79.7	82.5	83.0	1.75	1.80	7.8	5.6	3.2
-	-	1.8	1.3	-	IE3	-	-	83.0	85.8	85.6	-	1.77	-	5.8	3.3
MATRIX 10-4T/1.5M	MATRIX 10-4T/1.5	2.0	1.5	-	IE2	40	450	78.6	83.0	84.2	1.95	1.78	8.7	6.3	3.7
-	-	2.0	1.5	-	IE3	-	-	82.7	86.1	87.0	-	1.72	-	6.6	3.8
MATRIX 10-5T/2.2M	MATRIX 10-5T/2.2	3.0	2.2	-	IE2	50	450	83.0	84.4	83.8	2.92	2.63	13.0	8.2	4.7
-	-	3.0	2.2	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7
MATRIX 10-6T/2.2M	MATRIX 10-6T/2.2	3.0	2.2	-	IE2	50	450	83.0	84.4	83.8	2.92	2.63	13.0	8.2	4.7
-	-	3.0	2.2	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7
MATRIX 18-2T/1.5M	MATRIX 18-2T/1.5	2.0	1.5	-	IE2	40	450	78.6	83.0	84.2	1.95	1.78	8.7	6.3	3.7
-	-	2.0	1.5	-	IE3	-	-	82.7	86.1	87.0	-	1.72	-	6.6	3.8
MATRIX 18-3T/2.2M	MATRIX 18-3T/2.2	3.0	2.2	-	IE2	50	450	83.0	84.4	83.8	2.92	2.63	13.0	8.2	4.7
-	-	3.0	2.2	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7
-	MATRIX 18-4T/3	4.0	3	-	IE2	-	-	85.0	86.7	86.3	-	3.48	-	10.6	6.1
-	-	4.0	3	-	IE3	-	-	85.9	87.5	87.1	-	3.44	-	11.1	6.4
-	MATRIX 18-5T/4	5.5	4	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7
-	-	5.5	4	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7
-	MATRIX 18-6T/4	5.5	4	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7
-	-	5.5	4	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7

MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

NOISE DATA TABLE

Single phase 230V	Model Three phase 230/400V	P ₂		L _{PA} - dB(A)*
		[HP]	[kW]	
MATRIX 3-2T/0.45M	MATRIX 3-2T/0.45	0.6	0.45	61
MATRIX 3-3T/0.65M	MATRIX 3-3T/0.65	0.9	0.65	62
MATRIX 3-4T/0.65M	MATRIX 3-4T/0.65	0.9	0.65	
MATRIX 3-5T/0.75M	MATRIX 3-5T/0.75	1.0	0.75	
MATRIX 3-6T/0.9M	MATRIX 3-6T/0.9	1.2	0.9	
MATRIX 3-7T/1.3M	MATRIX 3-7T/1.3	1.8	1.3	64
MATRIX 3-8T/1.3M	MATRIX 3-8T/1.3	1.8	1.3	
MATRIX 3-9T/1.5M	MATRIX 3-9T/1.5	2.0	1.5	
MATRIX 5-2T/0.45M	MATRIX 5-2T/0.45	0.6	0.45	61
MATRIX 5-3T/0.65M	MATRIX 5-3T/0.65	0.9	0.65	62
MATRIX 5-4T/0.9 M	MATRIX 5-4T/0.9	1.2	0.9	64
MATRIX 5-5T/1.3M	MATRIX 5-5T/1.3	1.8	1.3	
MATRIX 5-6T/1.3M	MATRIX 5-6T/1.3	1.8	1.3	
MATRIX 5-7T/1.5 M	MATRIX 5-7T/1.5	2.0	1.5	
MATRIX 5-8T/2.2 M	MATRIX 5-8T/2.2	3.0	2.2	65
MATRIX 5-9T/2.2 M	MATRIX 5-9T/2.2	3.0	2.2	
MATRIX 10-2T/0.75M	MATRIX 10-2T/0.75	1.0	0.75	62
MATRIX 10-3T/1.3M	MATRIX 10-3T/1.3	1.8	1.3	64
MATRIX 10-4T/1.5M	MATRIX 10-4T/1.5	2.0	1.5	65
MATRIX 10-5T/2.2M	MATRIX 10-5T/2.2	3.0	2.2	
MATRIX 10-6T/2.2M	MATRIX 10-6T/2.2	3.0	2.2	
MATRIX 18-2T/1.5M	MATRIX 18-2T/1.5	2.0	1.5	64
MATRIX 18-3T/2.2M	MATRIX 18-3T/2.2	3.0	2.2	65
-	MATRIX 18-4T/3	4.0	3	68
-	MATRIX 18-5T/4	5.5	4	69
-	MATRIX 18-6T/4	5.5	4	

* Average noise level measured at 1 m from the motor pump.
Tolerance ± 2.5 dB.