

Technical data

Pump name MATRIX 3-4T6/1.3

Customer	Date 20-October-2016	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	HORIZONTAL MULTISTAGE PUMP	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °F	68
3	Flow US g.p.m.	0	Kin. viscosity ft ² /s	1.08E-5
4	Head ft	0	Vapour pressure psi	0.319
5	Static head ft	0	PH value	7
6	Inlet pressure psi	1	Density lb/ft ³	62
7	Available system NPSH	0	Solids Weight %	0
8	Environmental temperature °F	68	Altitude ft	3281

Pump

9	Pump name	MATRIX 3-4T6/1.3	Frequency Hz	60
10	Design	HORIZONTAL MULTISTAGE PUMP	Installation type	STANDARD
11	Manufacturer	EPE	Impeller Max. inch	4
12	Speed rpm	3500	Diameter Designed inch	4
13	No. of Stage	4	Min. inch	4
14	Connection Suction side		Flow Operating US g.p.m.	
15	Connection Discharge side		Max- US g.p.m.	26.4
16	Max Working Pressure psi		Min- US g.p.m.	6.6
17	Shut-off head psi	94.59	Head Operating ft	
18	Total weight lb	See the table of "Dimensions".	- (Qmax.) ft	71.8
19	Shaft power hp		- (Qmin.) ft	201.6
20			Max. Shaft Power at max. impeller hp	1.41
21	Required NPSH ft		Efficiency %	

Materials

22				
23				
24				
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_MATRIX 3-4T6/1.3_460_Three Phase	Phases	3~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power hp	1.7433	Weight lb	0
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3500	Electric current A	2.9
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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Requested data

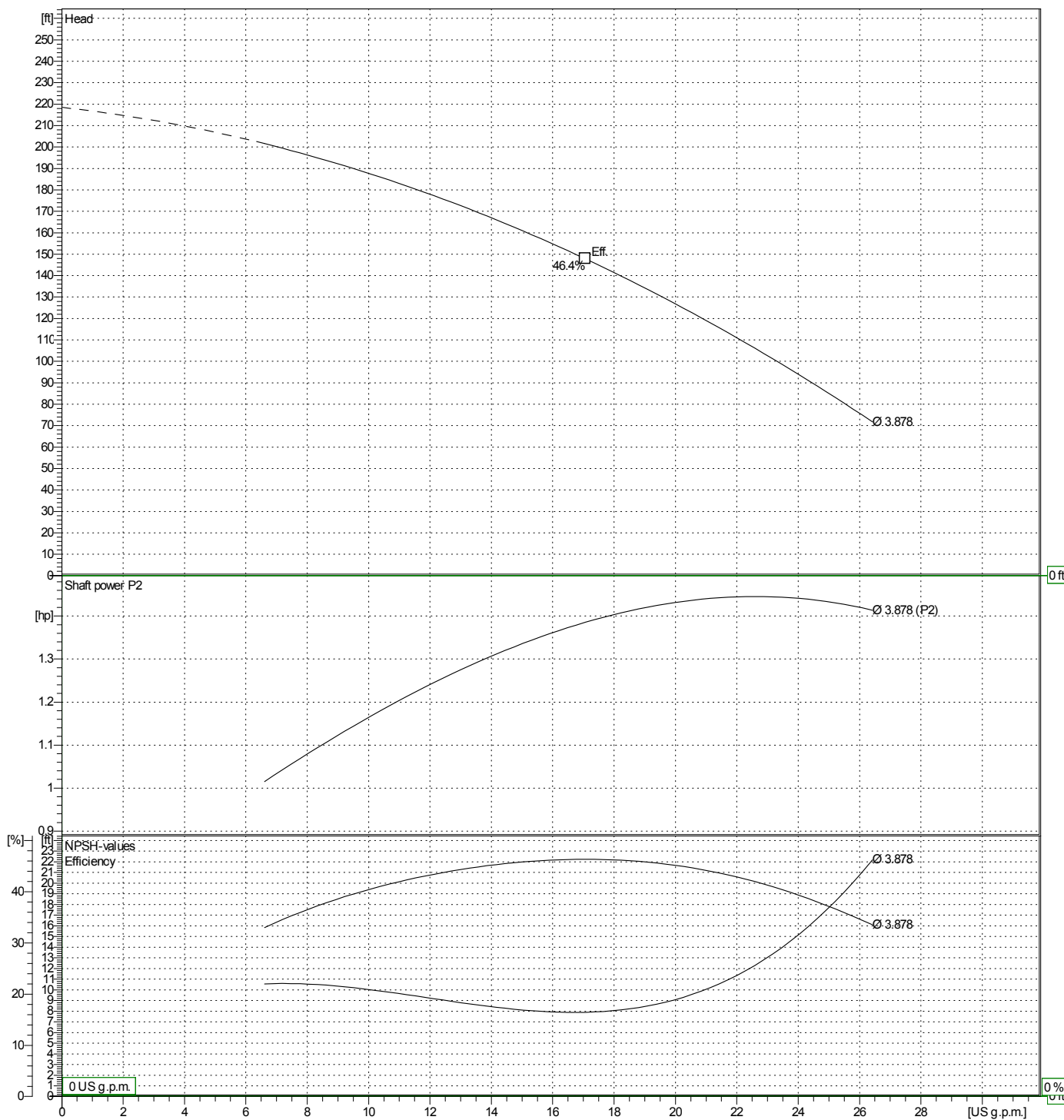
1	Flow	US g.p.m.	0
2	Head	ft	0
3	Static head	ft	0

Pump

Operating Flow	US g.p.m.		Impeller Diameter	Designed in	4
Operating Head	ft		Frequency	Hz	60
			Speed	rpm	

Test standard: ISO 9906:2012 - Grade3B

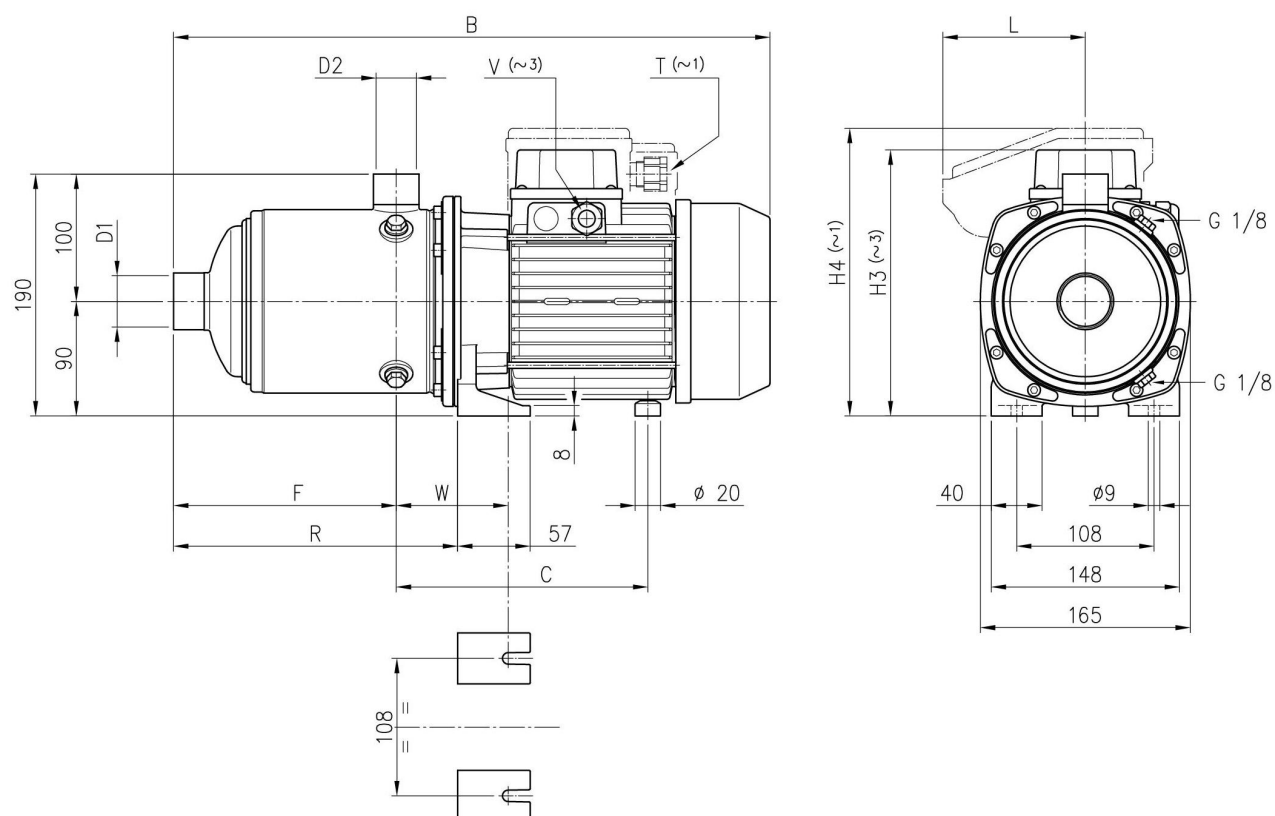
Water, clean [100%] ; 68°F; 62.321690545307lb/ft³; 1.0764E-5ft²/s



Dimensions

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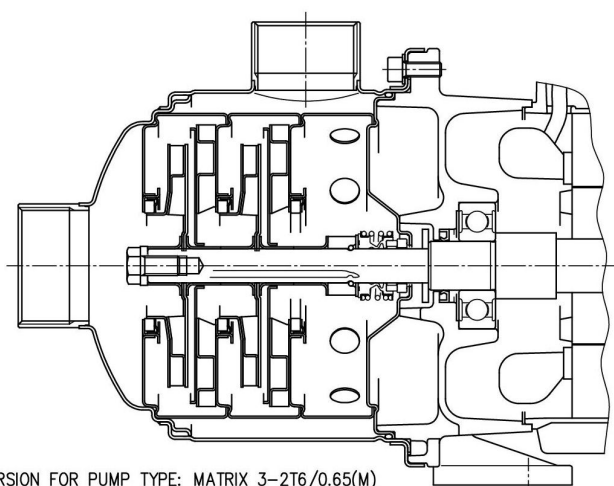
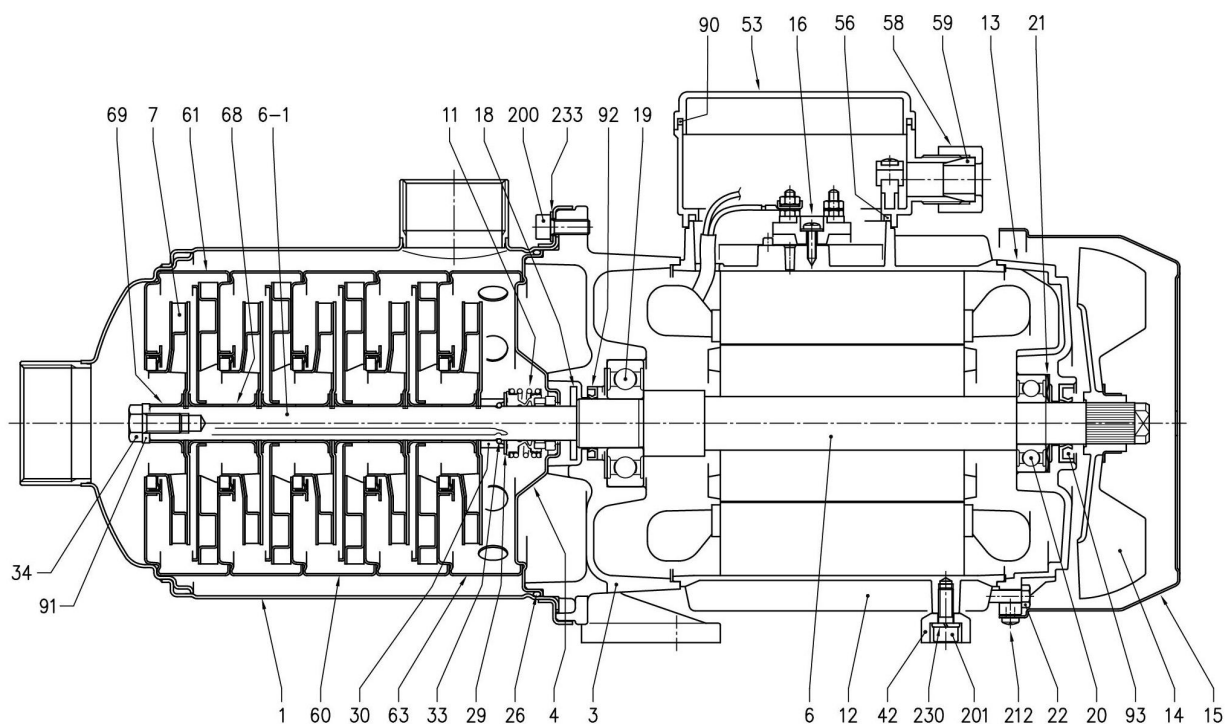


Dimensions in inch							
1	B	16.575					
2	C	7.7953					
3	D1	1"					
4	D2	1"					
5	F	5					
6	H3	8.2283					
7	R	6.9094					
8	V	PG11					
9	W	88-97					
10	Weight kg	14.4kg					

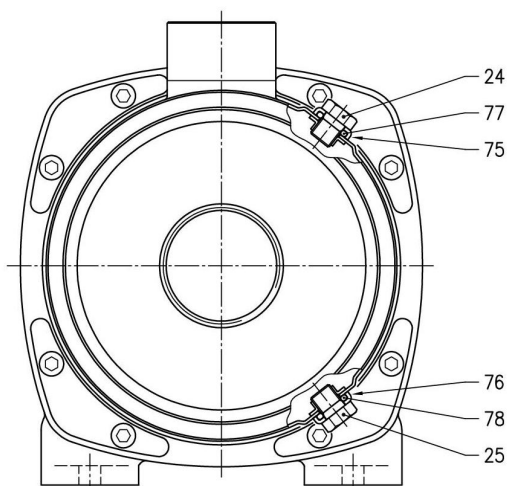
(1/3) Construction

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VERSION FOR PUMP TYPE: MATRIX 3-2T6/0.65(M)
MATRIX 5-2T6/0.9(M)
MATRIX 10-2T6/1.5(M)



(2/3) Construction

Pump name **MATRIX 3-4T6/1.3**

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N°	PART NAME	MATERIAL	DMENSION	STANDARD	Q.TY
1	Casing	EN 1.4301 (AISI304)			1
3	Bracket	EN AB-A S11Cu2 (Fe)			1
4	Casing cover	EN 1.4301 (AISI304)			1
6	Shaft with rotor	-			1
6-1	Pump Shaft	EN 1.4301 (AISI304)			1
7	Impeller	EN 1.4301 (AISI304)			[1]
11	Standard mechanical seal	Ceramic/Carbon/EPDM			1
	High temperature mechanical seal	Ceramic/Carbon/EPDM			
12	Motor frame with stator	-			1
13	Motor cover	Aluminium			1
14	Fan	PA6			1
15	Fan cover	Fe P04 Zinc-coated			1
16	Terminal board	-			1
17	Terminal box cover [2]	Aluminium			1
18	Splash ring	NBR	30x13.5x2.5		1
19	Bearing	-			1
20	Bearing	-			1
21	Adjusting ring	Steel C70			1
22	Tie rod	Fe 42 Zinc-coated			4
24	Plug	EN 1.4301 (AISI304)			1
25	Plug	EN 1.4301 (AISI304)			1
26	O-ring	EPDM	133.02X2.62		1
29	Washer	EN 1.4301 (AISI304)	25.1x14x1		1
30	Ring holder	EN 1.4301 (AISI304)			1
30-1	Shaft sleeve (adjustment)	EN 1.4301 (AISI304)			[1]
30-2	Shaft sleeve (adjustment)	EN 1.4301 (AISI304)			[1]
33	Ring	EN 1.4301 (AISI304)			2
34	Screw	EN 1.4301 (AISI304)	M 8x16	UNI 5739	1
42	Foot	Aluminium			[1]
50	Motor spacer [3]	Aluminium			1
52	Capacitor box [4]	ABS			1
53	Capacitor box cover [4] [5]	ABS [5]			1
56	Box gasket	NBR			1
58	Ring nut	-			[1]
59	Conic gasket [4]	NBR			1
60	Intermediate casing	EN 1.4301 (AISI304)+PTFE			[1]
61	Intermediate casing (suction)	EN 1.4301 (AISI304)+PTFE			1
63	Intermediate casing (discharge)	EN 1.4301 (AISI304)+PTFE			1
68	Shaft sleeve (intermediate)	EN 1.4301 (AISI304)			[1]
69	Impeller spacer	EN 1.4301 (AISI304)			1
75	Washer (plug)	EN 1.4301 (AISI304)			1
76	Washer (plug)	EN 1.4301 (AISI304)			1
77	O-ring	EPDM	9.19x2.62		1
78	O-ring	EPDM	9.19x2.62		1
90	Cover box gasket [4]	NBR	-		1
91	Shaft washer	EN 1.4301 (AISI304)			1
92	Lip seal	0.65-0.75-0.9 kW 1.3-1.5-2.2 kW 3-4 kW	17x32x6 20x30x4 25x40x7		1 1 1
93	Lip seal	0.65-0.75-0.9 kW 1.3-1.5-2.2 kW 3-4 kW	15x30x5 17x32x7 25x40x7		1 1 1
200	Screw	EN 1.4301 (AISI304)	M 6x16	UNI 5931	8
201	Screw	Steel 8.8 strength class ISO 898/1	M 6x20	UNI 5931	[1]
230	Washer	Steel C70	Ø 6.4	UNI 1751	[1]
233	Plate	EN 1.4301 (AISI304)			4

[1] See "CONSTRUCTION 3"

[2] Only for three-phase

[3] Only for 10-5T6/4 and 18-3T6/4

[4] Only for single-phase

[5] With gasket in NBR only for version single phase 3-2T6/0.65M, 3-3T6/0.9M, 5-2T6/0.9M

(3/3) Construction

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Pum p type	7	30-1	30-2	42	60	68	90	201	230
M A T R I X 3-2T6/0,65M	2	-	-	1	1	4	1	1	1
M A T R I X 3-2T6/0,65		-	-	1	1	4	-	1	1
M A T R I X 3-3T6/0,9M	3	-	-	1	1	4	1	1	1
M A T R I X 3-3T6/0,9		-	-	1	1	4	-	1	1
M A T R I X 3-4T6/1,3M	4	-	-	1	2	6	1	1	1
M A T R I X 3-4T6/1,3		-	-	1	2	6	-	1	1
M A T R I X 3-5T6/1,5M	5	-	-	1	3	8	1	1	1
M A T R I X 3-5T6/1,5		-	-	1	3	8	-	1	1
M A T R I X 3-6T6/2,2	6	-	-	1	4	10	-	1	1
M A T R I X 5-2T6/0,9M	2	-	-	1	1	4	1	1	1
M A T R I X 5-2T6/0,9		-	-	1	1	4	-	1	1
M A T R I X 5-3T6/1,3M	3	-	-	1	1	4	1	1	1
M A T R I X 5-3T6/1,3		-	-	1	1	4	-	1	1
M A T R I X 5-4T6/2,2	4	-	-	1	2	6	-	1	1
M A T R I X 5-5T6/2,2	5	-	-	1	3	8	-	1	1
M A T R I X 5-6T6/3	6	-	-	-	4	10	-	-	-
M A T R I X 10-2T6/1,5M	2	-	-	1	1	4	1	1	1
M A T R I X 10-2T6/1,5		-	-	1	1	4	-	1	1
M A T R I X 10-3T6/2,2	3	-	-	1	1	4	-	1	1
M A T R I X 10-4T6/3	4	-	-	-	2	6	-	-	-
M A T R I X 10-5T6/4	5	-	-	-	3	8	-	-	-
M A T R I X 18-2T6/3	3	1	1	-	1	2	-	-	-
M A T R I X 18-3T6/4	4	-	1	-	1	2	-	-	-