

Technical data

Pump name

200x150 FS4LA 5 90

Customer	Date 01-April-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	End Suction Volute Pump	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h	0	Kin. viscosity mm²/s	1
4	Head m	0	Vapour pressure bar	0.022
5	Geodetic head m	0	PH value	7
6	Inlet pressure (pin) bar	0.1	Density kg/dm³	1
7	Available system NPSH	0	Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	200x150 FS4LA 5 90	Frequency Hz	50
10	Design	End Suction Volute Pump	Installation type	with base, motor
11	Manufacturer	PTEI	Impeller	Max. mm 411
12	Speed 1/min	1450	Diameter	Designed mm 411
13	No. of Stage	1		Min. mm 329
14	Connection Suction side	JIS 16K	Flow	Operating m³/h
15	Connection Discharge side	JIS 16K		Max- m³/h 697
16	Max Working Pressure bar	16		Min- m³/h 180
17	Shut-off head bar	5.46	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 32.9
19	Shaft power kW			- (Qmin.) m 55.9
20			Max. Shaft Power at max. impeller kW	83.18
21	Required pump NPSH m		Efficiency %	

Materials

22	Casing	Cast iron	M.S.mating ring	Ceramic
23	Impeller	Bronze	M.S.seal ring	Carbon
24	Shaft	403 Stainless steel		
25	Casing ring	Bronze		
26	Ball bearing	.		
27	Mechanical seal	.		

Motor

28	Manufacturer	TECO	Insulation class	F
29	Type	280SC_B3_90_3_400	Phases	3~
30	Specific design	TEFC / 50 Hz / Pole pairs 2	Frame size	280 SC
31	Rated power kW	90	Weight kg	660
32	Number of poles	4	Electric voltage V	400
33	Speed 1/min	1475	Electric current A	160
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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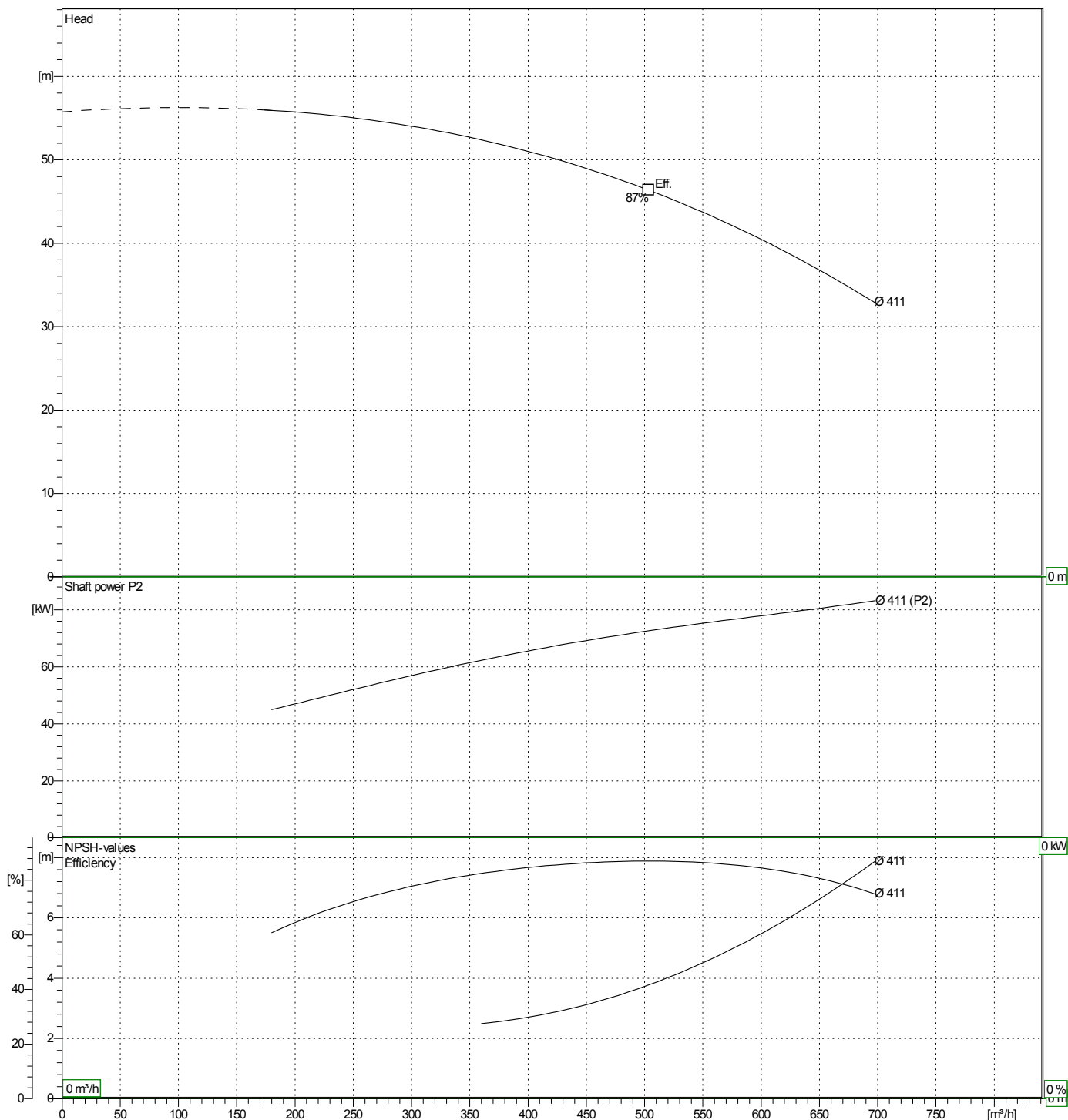
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles	4	
Impeller Diameter	Designed mm	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

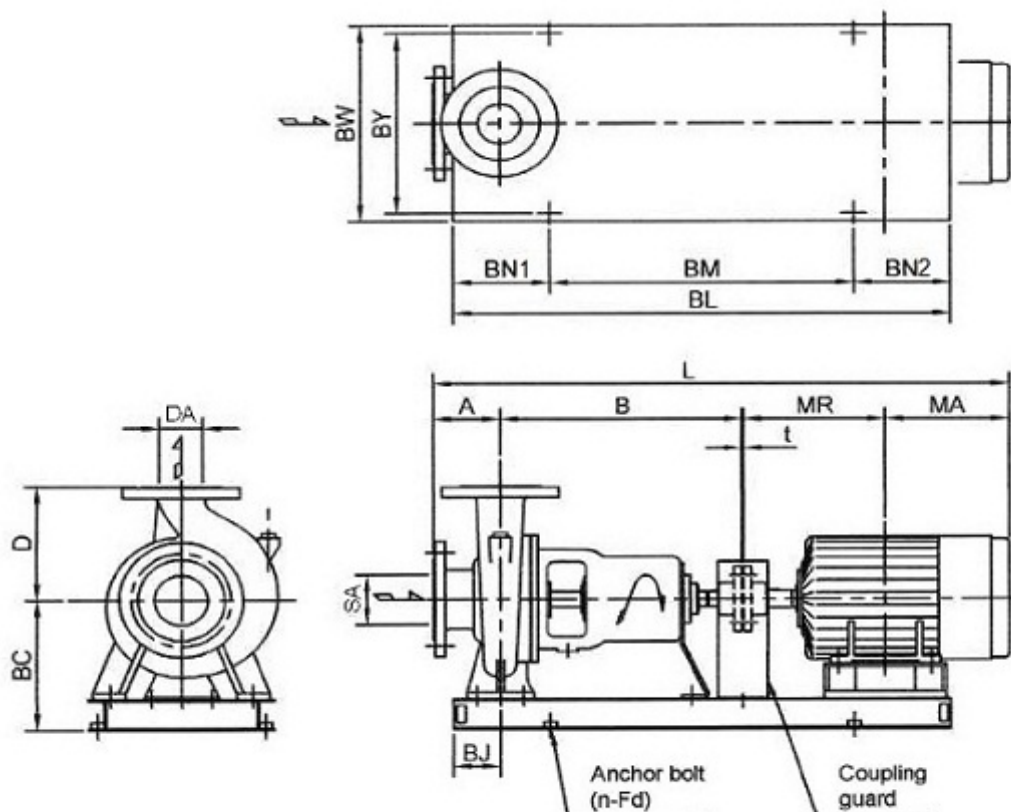
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



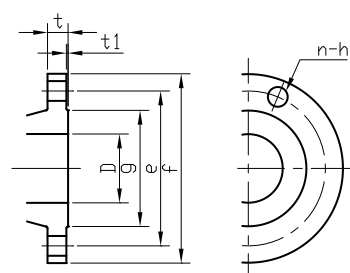
Dimensions

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Flange Dimensions



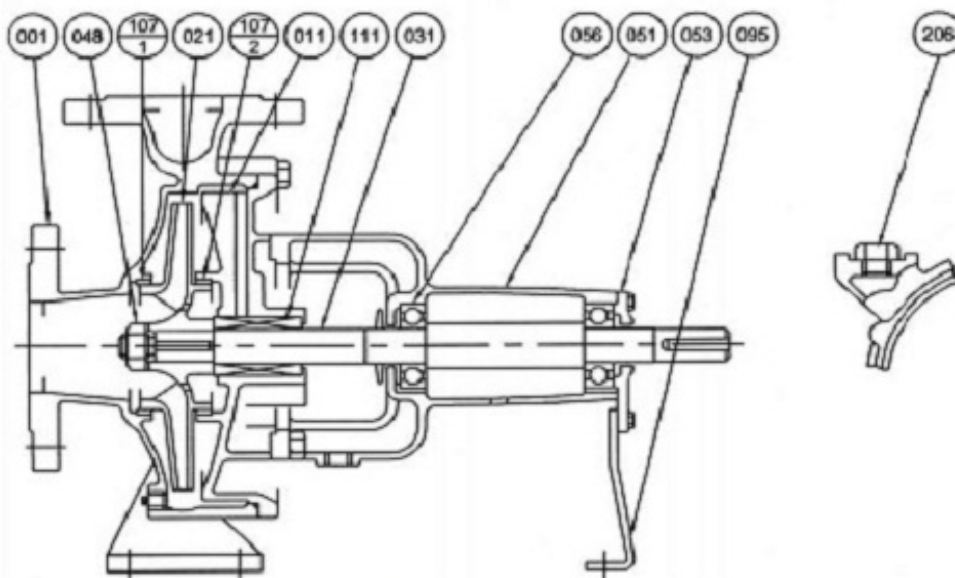
Total weight : 1141 kg

Pump dimensions				mm		Suction side		mm		Discharge side		mm	
A	164	L	1858	D	200	D	150						
B	670	MA	478	e	305	e	260						
BC	485	MR	544	f	350	f	305						
BJ	130	n	6 (Num)	g	275	g	230						
BL	1610	SA	200	h	25	h	25						
BM	2X630	t	4	n Num	12 (Num)	n Num	12 (Num)						
BN1	175			t	30	t	28						
BN2	175			t1	2	t1	2						
BW	640												
BY	570												
D	452												
DA	150												
Fd	M22												

(1/2) Construction

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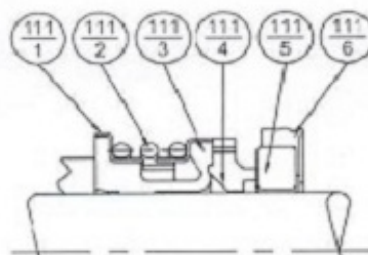
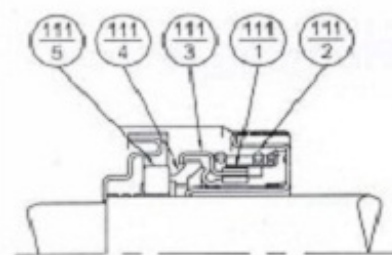


Model FH

50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA, FSJA, FSKA;
100x80 FSGA, FSHA, FSJA;
125x100 FSKA

Model EA

100x65 FSKA; 100x80 FSGCA, FSHCA;
125x100 FSJCA, FSLA;
150x100 FSKA, FSNA;
150x125 FSHA, FSJA, FSKA, FSLA;
200x150 FSHA, FSJA, FSKA, FSLA, FSNA;
250x200 FSLA, FSNA



111-5	Mating Ring	Ceramic	1
111-4	Seal Ring	Carbon	
111-3	Friction Ring	NBR	
111-2	Coil Spring	Stainless Steel	
111-1	Spring Holder	Stainless Steel	
No.	Part Name	Material	Qty

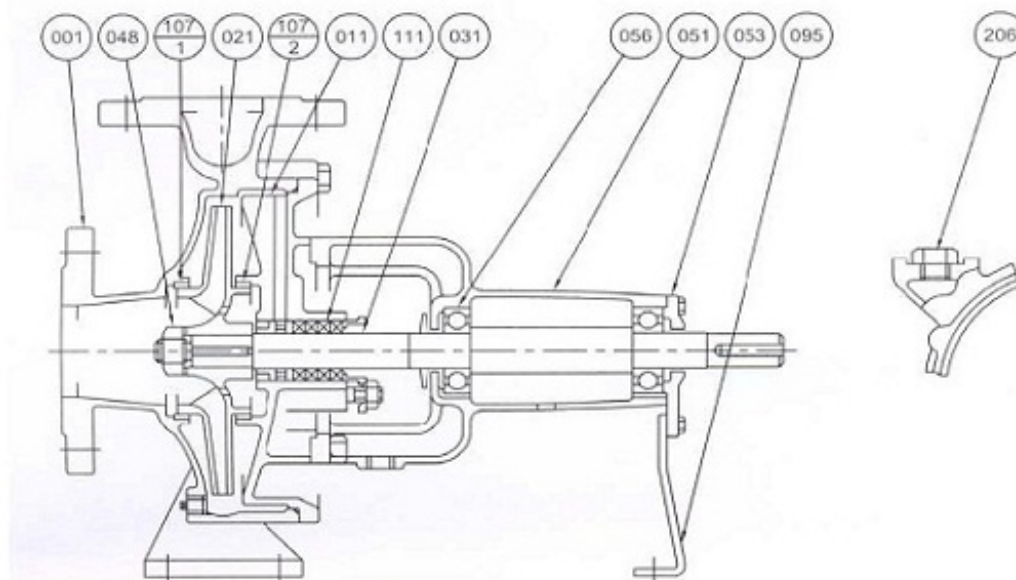
111-6	Cup Gasket	NBR	1
111-5	Mating Ring	Ceramic	
111-4	Seal Ring	Carbon	
111-3	Bel lows	NBR	
111-2	Spring	Stainless Steel	
111-1	Spring Holder	Stainless Steel	
No.	Part Name	Material	Qty

207	Plug	Steel	1
111	Mechanical Seal	-	
107-2	Casing Ring	Bronze	
107-1	Casing Ring		
095	Stay	Steel	1
056	Ball Bearing	-	2
053	Bearing Cover	Cast Iron	1
051	Bearing Housing		
048	Impeller Nut	Brass	
031	Shaft	Stainless Steel	
021	Impeller	Bronze	
011	Casing Cover	Cast Iron	
001	Casing		
No.	Part Name	Material	Qty

(2/2) Construction

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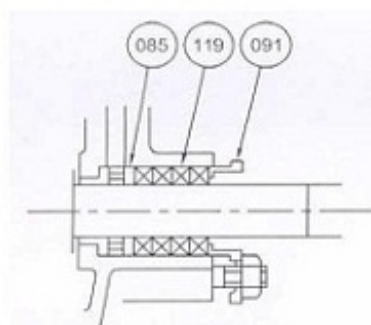


With Lantern Ring

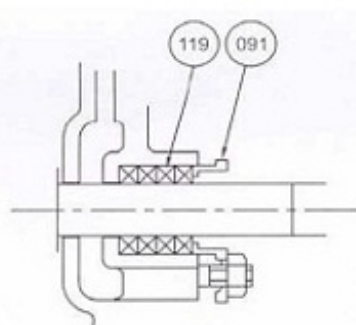
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA; 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

Without Lantern Ring

80x65 FSJA, FSKA;
100x65 FSKA;
100x80 FSHA, FSJA, FSGCA, FSHCA;
125x100 FSJCA, FSKA;
150x125 FSHA, FSJA;
200x150 FSHA, FSKA;



119	Gland Packing	Non-Asbestos	4 or 5
091	Gland	Bronze	1
085	Lantern Ring		
No.	Part Name	Material	Qty



119	Gland Packing	Non-Asbestos	4 or 5
091	Gland	Bronze	1
No.	Part Name	Material	Qty

207	Plug	Steel	1
111	Gland Packing	Non-Asbestos	4 or 5
107-2	Casing Ring	Bronze	1
107-1	Casing Ring		
095	Stay	Steel	1
056	Ball Bearing	-	2
053	Bearing Cover	Cast Iron	1
051	Bearing Housing		
048	Impeller Nut	Brass	
031	Shaft	Stainless Steel	
021	Impeller	Bronze	
011	Casing Cover	Cast Iron	
001	Casing		
No.	Part Name	Material	Qty