Technical data

Pump name 50x40 FS2HA 5 5.5

Customer	Date 31-March-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	50x40 FS2HA 5 5.5	Frequency Hz		50
10	Design	End Suction Volute Pump	Installation type		with base, motor
11	Manufacturer	PTEI	Impeller Diameter	Max. mm	209
12	Speed 1/min	2900		Designed mm	209
13	No. of Stage	1		Min. mm	164
14	Connection Suction side	JIS 10K	Flow	Operating m³/h	
15	Connection Discharge side	JIS 10K		Max- m³/h	30
16	Max Working Pressure bar	10		Min- m³/h	6
17	Shut-off head bar	5.81	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	32.0
19	Shaft power kW			- (Qmin.) m	58.6
20			Max. Shaft Power at max. impeller kW		5.95
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	132S_B3_5.5_3_400	Phases		3~
30	Specific design	TEFC / 50 Hz / Pole pairs 1	Frame size		132 S_5.5
31	Rated power kW	5.5	Weight	kg	65
32	Number of poles	2	Electric voltage	V	400
33	Speed 1/min	2905	Electric current	A	10.5
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve **Pump name** 50x40 FS2HA 5 5.5

Customer	Date 31-March-2020	Company
Contact	Item no.	Issued by
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E-mail	Project ID	E-mail

Requested data

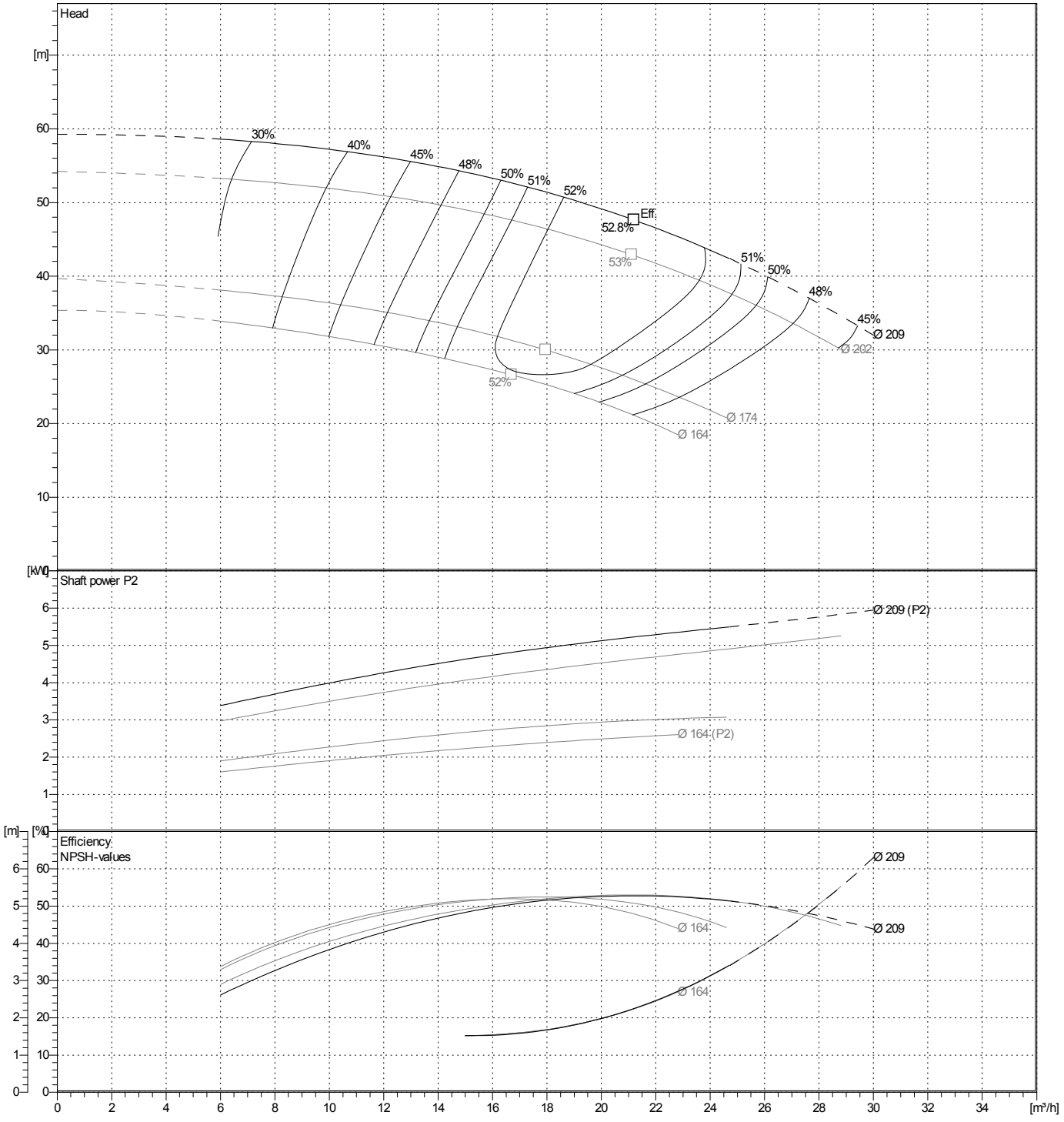
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	209	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1.005mm²/s



EBARA

Dimensions

Pump name 50x40 FS2HA 5 5.5

Customer	Date 31-March-2020	Company
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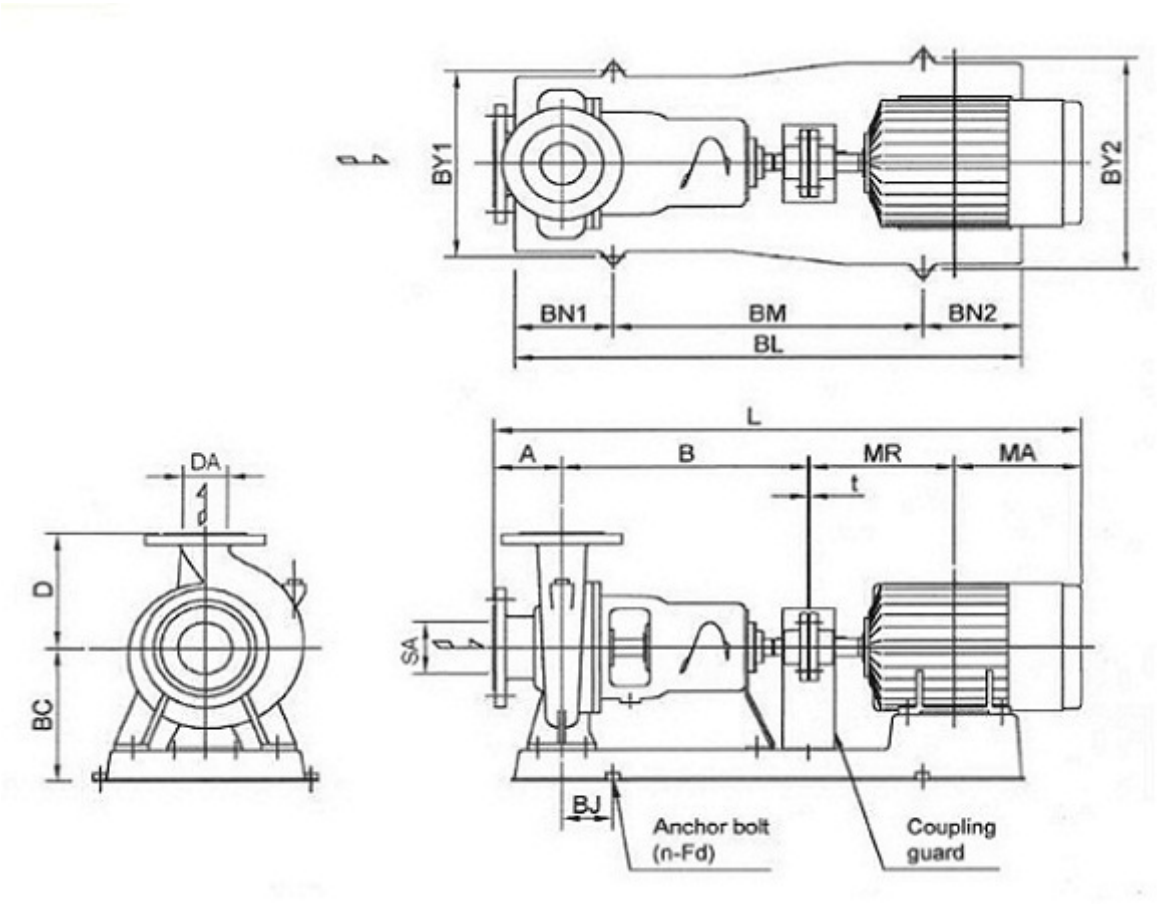
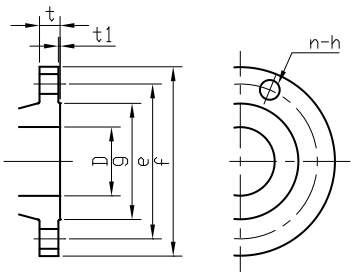


Flange
Dimensions



Total weight : 143 kg

Pump dimensions			mm
A	**80**	**L**	**897**
B	**360**	**MA**	**215**
BC	**230**	**MR**	**239**
BJ	**55**	**n**	**4 (Num)**
BL	**820**	**SA**	**50**
BM	**540**	**t**	**3**
BN1	**130**		
BN2	**150**		
BY1	**350**		
BY2	**350**		
D	**180**		
DA	**40**		
Fd	**M12**		

Suction side	mm
D	50
e	120
f	155
g	96
h	19
n Num	4 (Num)
t	20
t1	2

Discharge side	mm
D	40
e	105
f	140
g	81
h	19
n Num	4 (Num)
t	20
t1	2

EBARA

(1/2)
Construction

Pump name 50x40 FS2HA 5 5.5

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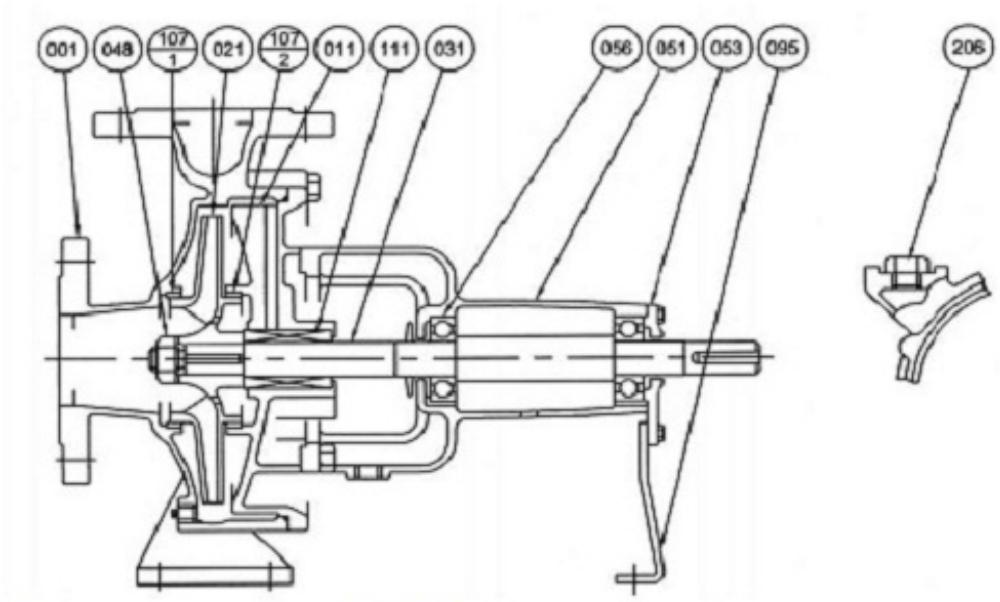
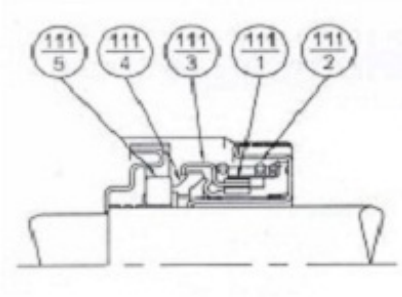


Model FH

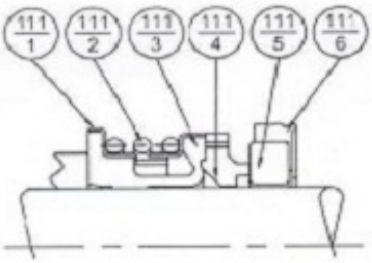
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA, FSJA, FSKA;
100x80 FSGA, FSHA, FSJA;
125x100 FSKA

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



No.	Part Name	Material	Qty
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		



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

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		

(2/2)
Construction

Pump name 50x40 FS2HA 5 5.5

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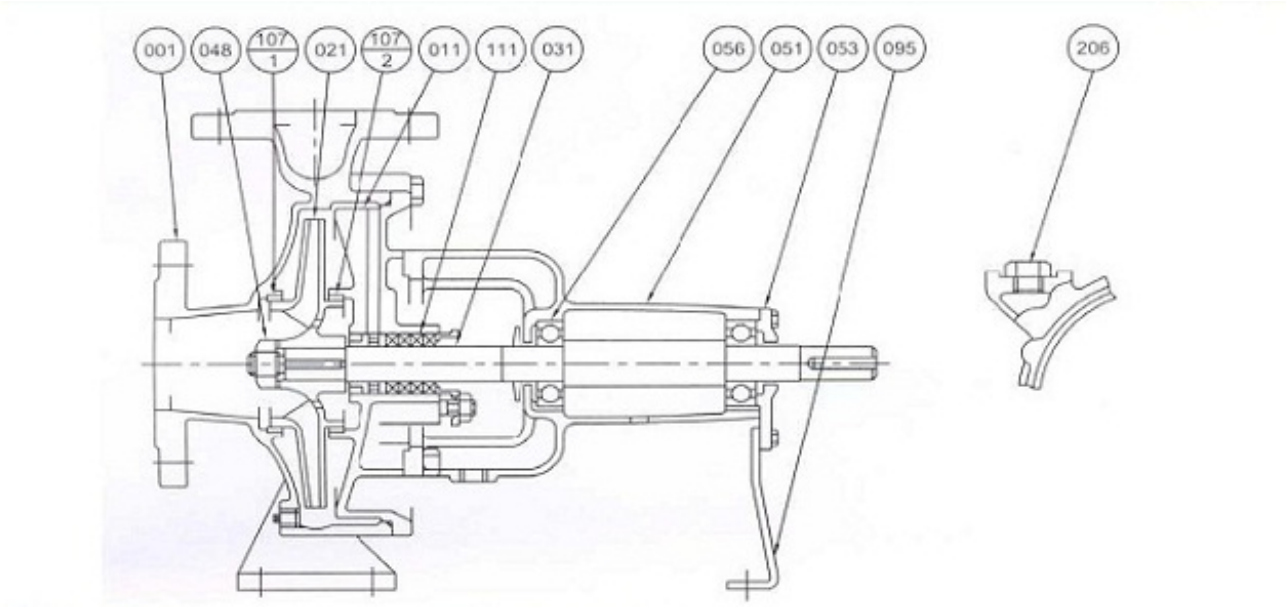
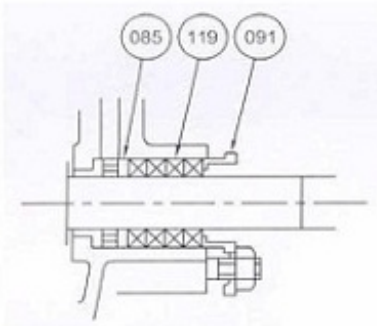


With Lantern Ring

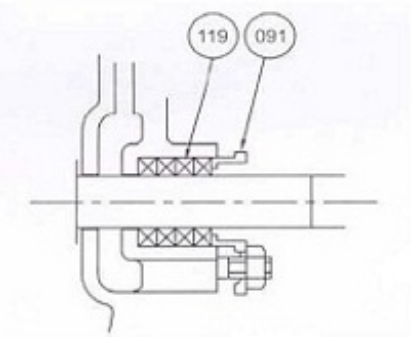
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA; 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

Without Lantern Ring

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



No.	Part Name	Material	Qty
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		