

Technical data

Pump name

100x80 FS2JA 5 45

Customer	Date 2021-05-06	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
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C 20
3	Flow m³/h		Kin. viscosity	mm²/s 1.005
4	Head m		Vapour pressure	bar 0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density	kg/dm³ 0.9983
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature °C	20		

Pump

9	Pump name	100x80 FS2JA 5 45	Frequency	Hz 50
10	Design	End Suction Volute Pump	Installation type	with base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 269
12	Speed rpm	2900		Designed mm 269
13	No. of Stage	1		Min. mm 216
14	Connection Suction side	JIS 10K	Flow	Operating m³/h
15	Connection Discharge side	JIS 10K		Max- m³/h 180
16	Max Working Pressure bar	10		Min- m³/h 48
17	Shut-off head bar	9.81	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 55.0
19	Shaft power kW			- (Qmin.) m 98.9
20			Max. Shaft Power at max. impeller	kW 44.89
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	225MA_B3_45_3_400	Phases	3~
30	Specific design	TEFC / 50 Hz / Pole pairs 1	Frame size	225 MA
31	Rated power kW	45	Weight	kg 343
32	Number of poles	2	Electric voltage	V 400
33	Speed rpm	2945	Electric current	A 76.9
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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Requested data

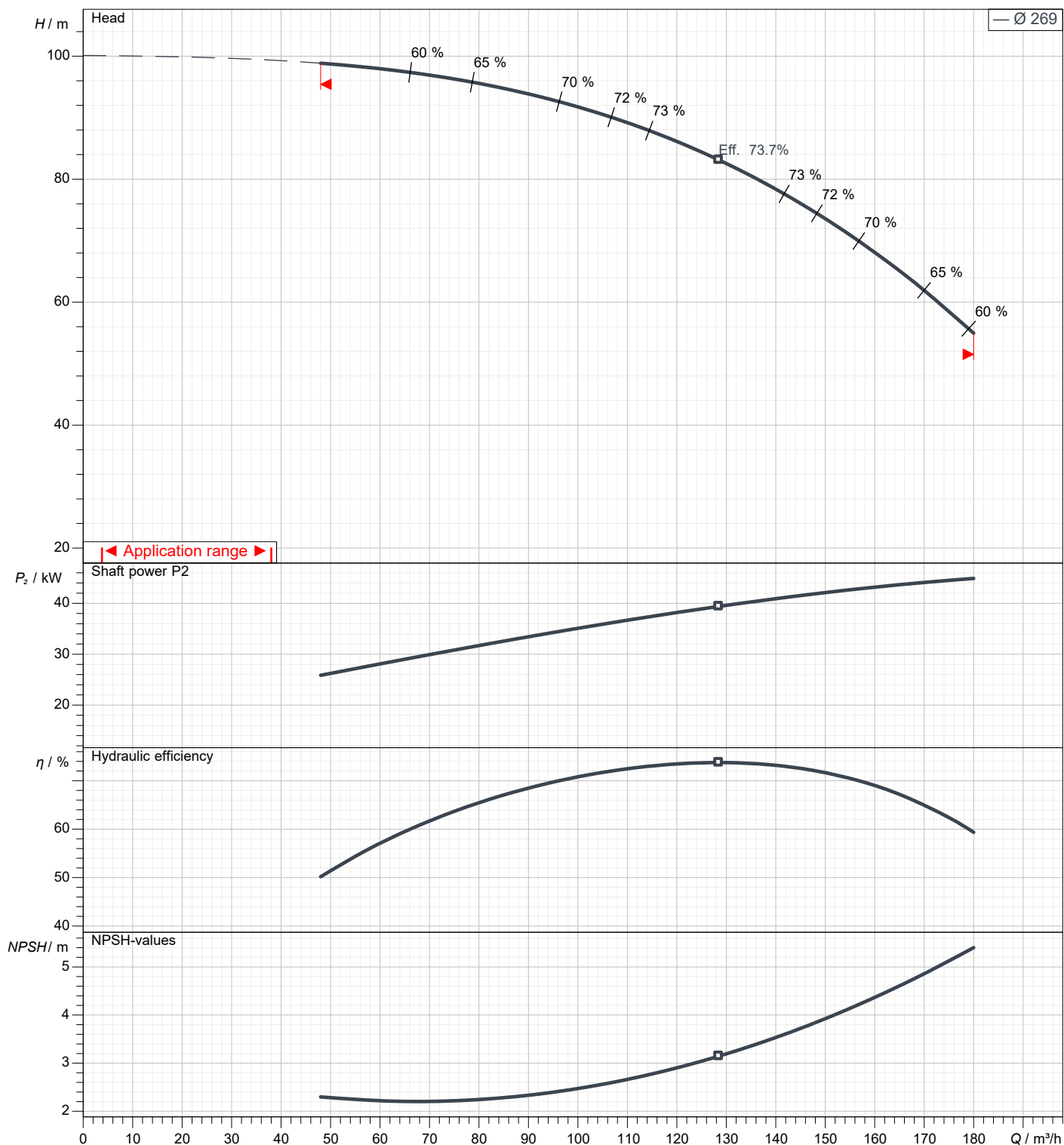
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter Designed	mm	269	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

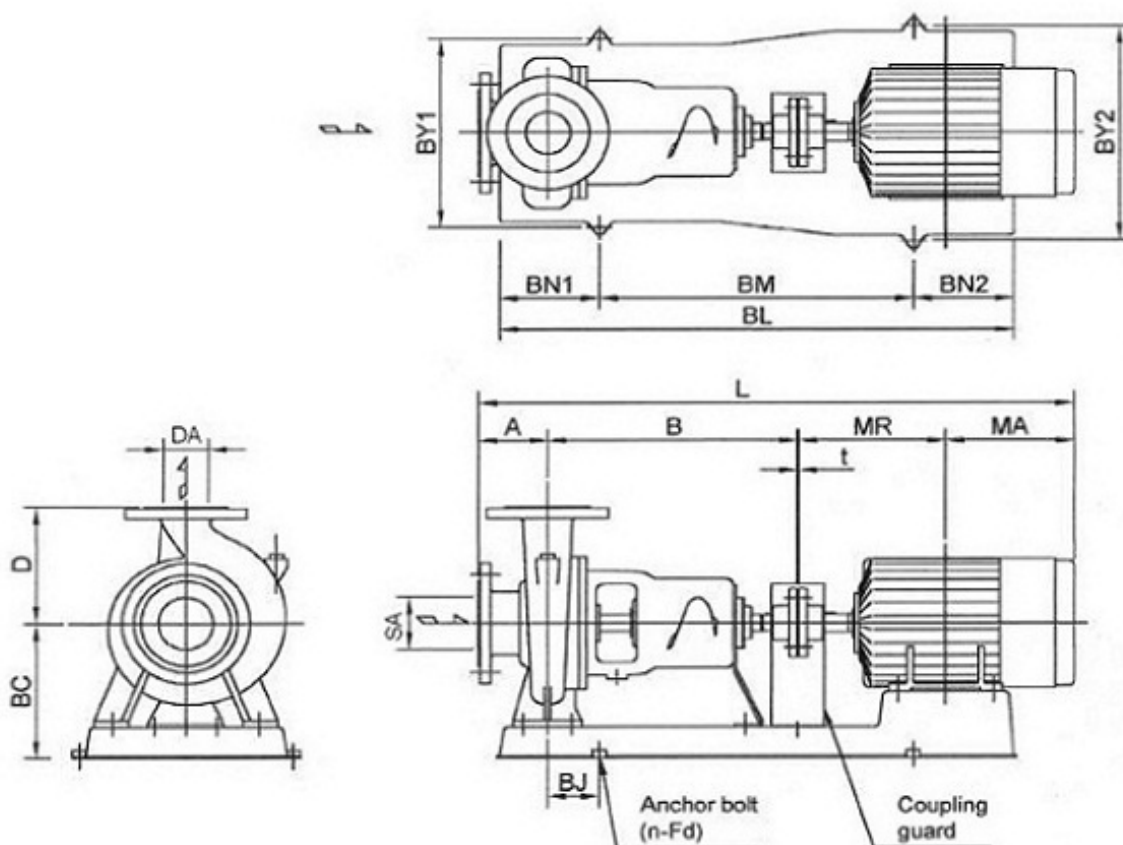
Water; 20°C; 0.9983kg/dm³; 1.005mm²/s



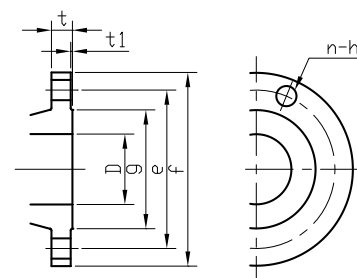
Dimensions

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Flange Dimensions



Total weight : 478 kg

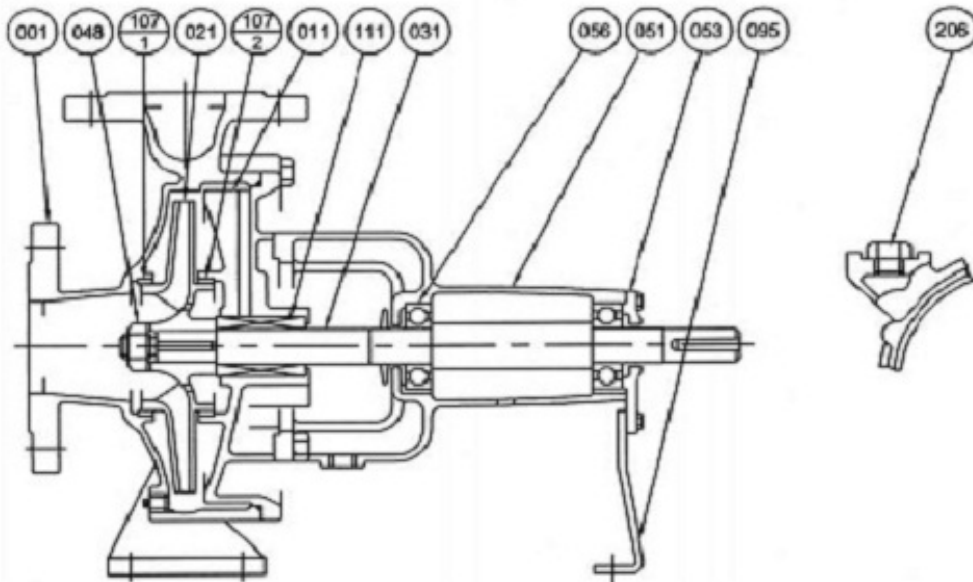
Pump dimensions				Suction side		Discharge side	
	mm				mm		mm
A	100	MR	414.5	D	100	D	80
B	360	n	4 (Num)	e	175	e	150
BC	315	SA	100	f	210	f	185
BJ	95	t	4	g	151	g	126
BL	1120			h	19	h	19
BM	760			n Num	8	n Num	8
BN1	180			t	24	t	22
BN2	180			t1	2	t1	2
BY1	550						
BY2	550						
D	250						
DA	80						
Fd	M16						
L	1275						
MA	396.5						

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Construction

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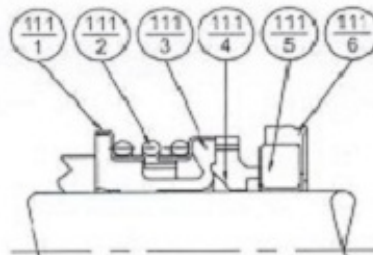
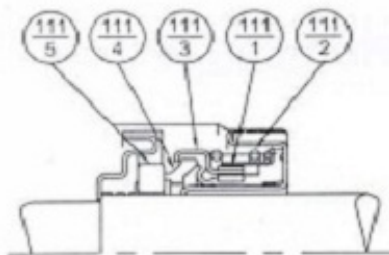


Model FH

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		
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

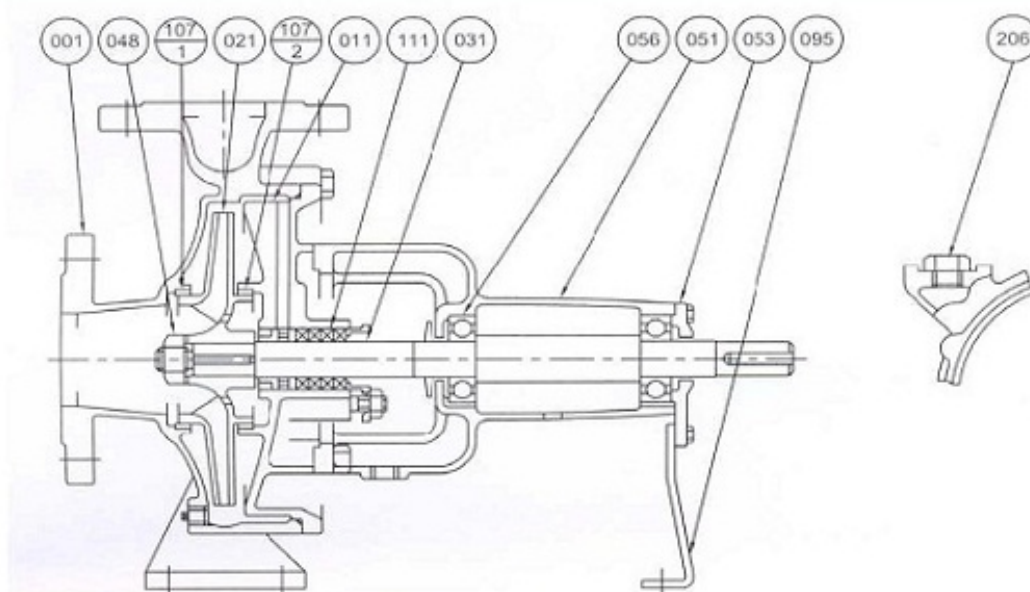
207	Plug	Steel	1
111	Mechanical Seal	-	
107-2	Casing Ring	Bronze	
107-1	Casing Ring		
095	Stay	Steel	1
056	Ball Bearing	-	2
053	Bearing Cover	Cast Iron	1
051	Bearing Housing		
048	Impeller Nut	Brass	
031	Shaft	Stainless Steel	
021	Impeller	Bronze	
011	Casing Cover	Cast Iron	
001	Casing		
No.	Part Name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

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Construction

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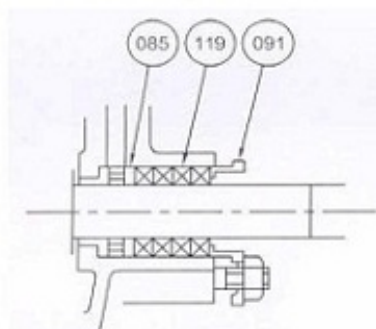


With Lantern Ring

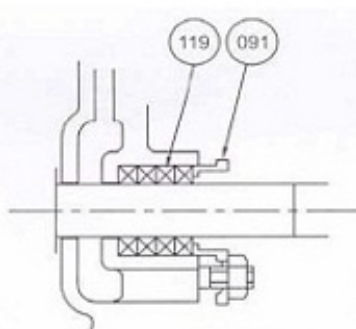
50x40 FSHA; 65x50 FSHA, FSJA;
80x65 FSGA, FSHA;
100x80 FSGA; 125x100 FSLA;
150x100 FSKA, FSNA;
150x125 FSKA, FSLA;
200x150 FSJA, FSLA, FSNA;
250x200 FSLA, FSNA

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