

Technical data

Pump name 100X80 FSS2JC 5 45 H

Customer	Date 2024-06-14	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-14 18:50:31	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/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	100X80 FSS2JC 5 45 H	Frequency Hz	50
10	Design	End Suction Volute Pump		
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 246
12	Speed rpm	2950		Designed mm 246
13	No. of Stage	1		Min. mm 222
14	Connection Suction side	JIS 16K	Flow	Operating m³/h
15	Connection Discharge side	JIS 16K		Max- m³/h 178
16	Max Working Pressure bar	16		Min- m³/h 33.1
17	Shut-off head bar	8.41	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 61.2
19	Shaft power kW			- (Qmin.) m 88.2
20			Max. Shaft Power at max. impeller kW	43.42
21	Required pump NPSH m		Efficiency %	

Materials

22	Casing	SCS13	M.S.mating ring	SIC
23	Impeller	SCS13	M.S.seal ring	Carbon
24	Shaft	SUS316L		
25	Case wear ring	SUS316		
26	Mechanical seal	SIC/Carbon		
27	Ball bearing	Grease		

Motor

28	Manufacturer	SIEMENS	Insulation class	F
29	Type	225M_B3_45_3_380	Phases	3~
30	Specific design	TEFC / 50 Hz / Pole pairs 1	Frame size	225 M
31	Rated power kW	45	Weight kg	322
32	Number of poles	2	Electric voltage V	380
33	Speed rpm	2960	Electric current A	82
34	Degree of protection	IP55		
35				

Remarks

Performance Curve

Pump Name

100X80 FSS2JC 5 45 H

Customer	Date	2024-06-14	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Project redenumit 2024-06-14 18:50:31	E-mail

Requested data

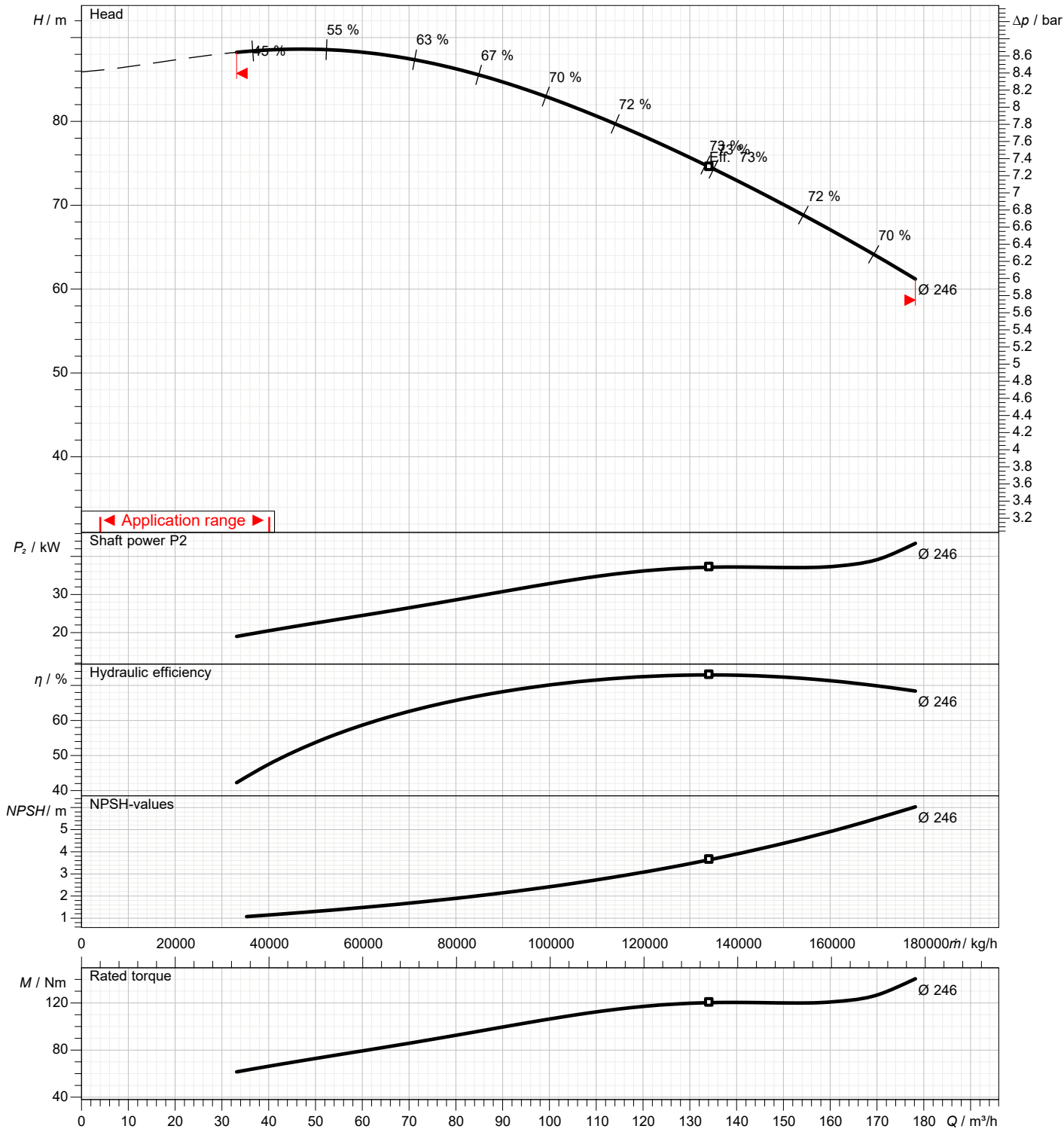
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	246	Speed	rpm	2950

Test standard: ISO 9906:2012 - Grade3B

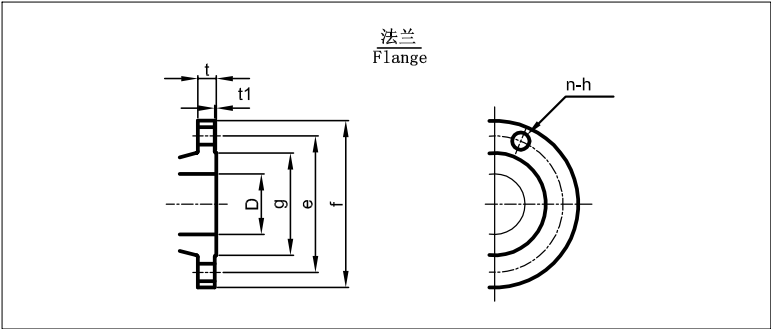
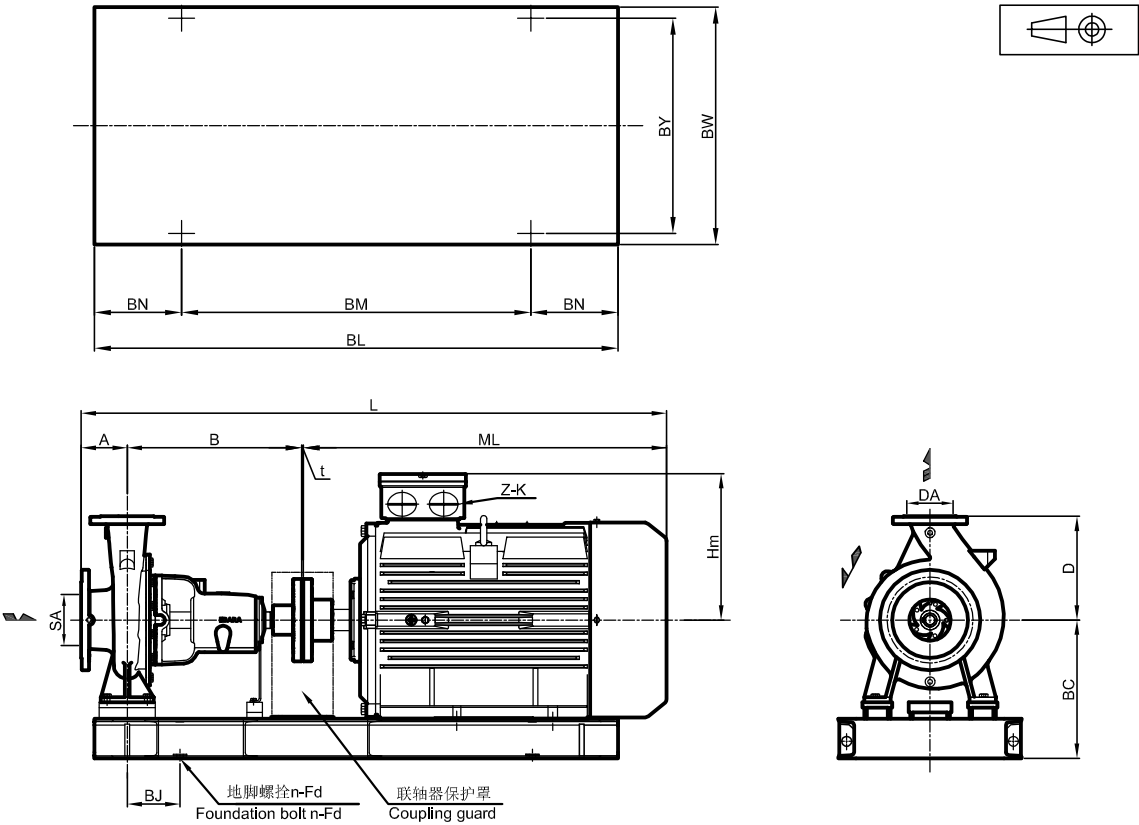
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump name 100X80 FSS2JC 5 45 H

Customer	Date 2024-06-14	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-06-14 18:50:31	E-mail



Motor manufacturer : SIEMENS

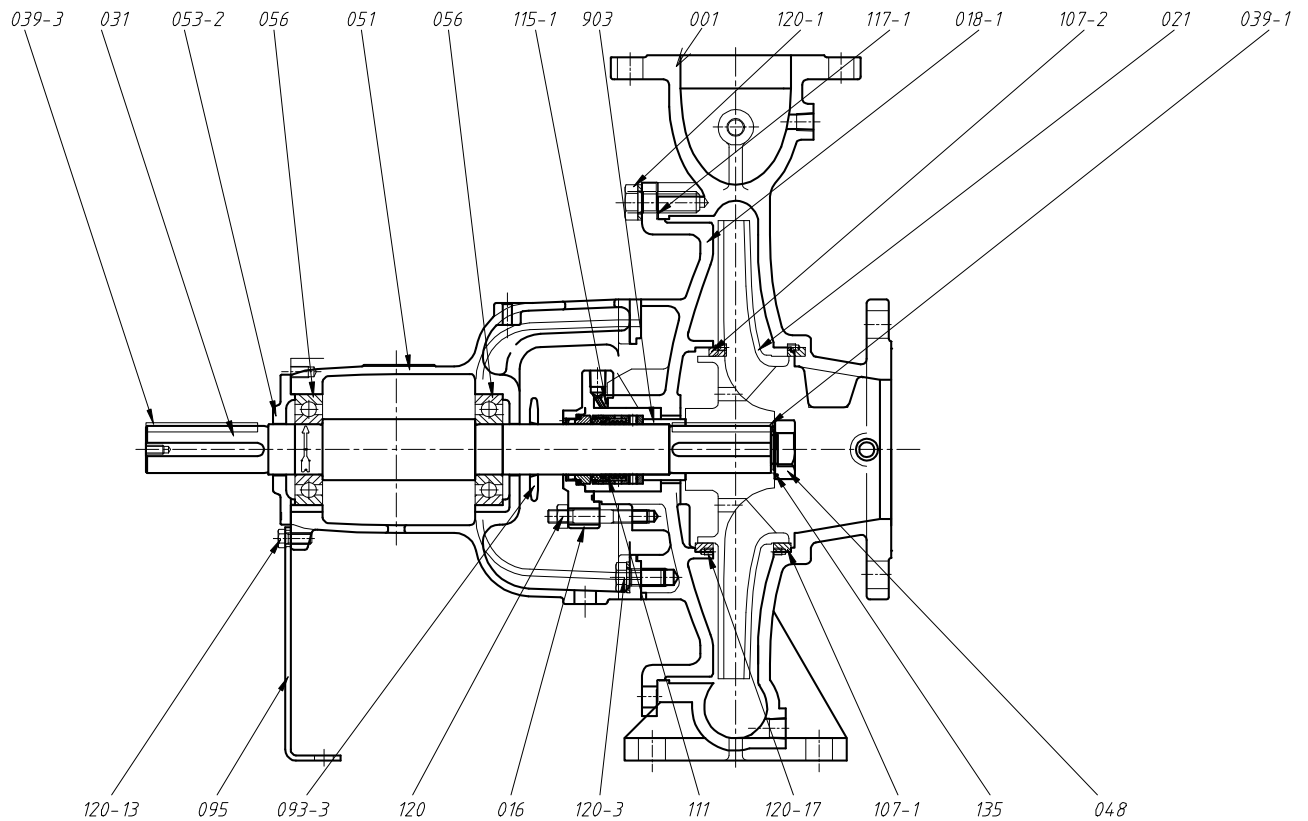
Total weight : 489 kg

Pump dimensions				mm	Suction side		mm	Discharge side		mm
A	100	n	4(Num)		D	100		D	80	
B	360	SA	100		e	185		e	160	
BC	330	t	4		f	225		f	200	
BJ	85	Z-K	2-M50X1.5		g	160		g	132	
BL	1110				h	23		h	23	
BM	750				n Num	8(Num)		n Num	8(Num)	
BN	180				t	22		t	20	
BW	490				t1	2		t1	2	
BY	460									
D	250									
DA	80									
Fd	15									
Hm	327									
L	1289									
ML	825									

Construction

Pump name 100X80 FSS2JC 5 45 H

Customer	Date 2024-06-14	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-06-14 18:50:31	E-mail



095	轴承支架 Stay	SS400	Q235A	1		903	机械挡圈 Distance piece	SUS304	06Cr19Ni10	1	
093-3	甩水环 Flinger	NBR	NBR	1		135	叶轮止动垫圈 Impeller Nut Washer	SUS304	06Cr19Ni10	1	
056	球轴承 Ball Bearing	—	—	2		120-17	紧定螺钉 Set Screw	SUS304	06Cr19Ni10	4	
053-2	轴承压盖 Bearing Cover	FC250	HT250	1		120-13	六角头螺栓 Hex.Head Bolt	SS400	Q235A	2	
051	轴承体 Bearing Housing	FC250	HT250	1		120-3	六角头螺栓/垫片 Hex.Head Bolt/Nut	SUS304	06Cr19Ni10	4	
048	叶轮螺母 Impeller Nut	SUS304	06Cr19Ni10	1		120-1	六角头螺栓/垫片 Hex.Head Bolt/Nut	SUS420J1	20Cr13	8	
039-3	联轴器用键 Key For Couplings	S50C	S0#	1		120	双头螺栓 Stud Bolt	SUS304	06Cr19Ni10	4	
039-1	叶轮用键 Key For Impeller	SUS304	06Cr19Ni10	1		117-1	密封垫 Sealing Gasket	V6500	V6500	1	
031	主轴 Shaft	SUS316L	022Cr17Ni12Mo2	1		115-1	O型圈 O-rings	FPM	FPM	1	
021	叶轮 Impeller	SCS13	06Cr19Ni10	1		111	机械密封 Mechanical Seal			1 SET	
018-1	泵盖 Casing Cover	SCS13	06Cr19Ni10	1		107-2	密封环 Case Wear Ring	SUS316	06Cr17Ni12Mo2	1	
016	机械密封 Mechanical Sealing Gland	SUS304	06Cr19Ni10	1		107-1	密封环 Case Wear Ring	SUS316	06Cr17Ni12Mo2	1	
001	泵壳 Casing	SCS13	06Cr19Ni10	1							
零件号 No.	零件名 Name of Part	JIS	GB	数量 No.	备注 Remark	零件号 No.	零件名 Name of Part	JIS	GB	数量 No.	备注 Remark
		材料 Material						材料 Material			

注意: 上表只显示标准配置的材料, 如有其他材料要求, 请参照技术数据表。

Note: The table above shows material of standard specification.

Please refer to the Data Sheet if designated material is required.