

Technical Data

Pump Name

GSS 40-200 /2.2

Customer	Date	2024-06-16	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-16 12:31:28	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	GSS 40-200 /2.2	Frequency Hz	50
10	Design	End Suction Volute Pump	Installation type	with ISO base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 219
12	Speed rpm	1450		Designed mm 219
13	No. of Stage	1		Min. mm 172
14	Connection Suction side	EN PN16	Flow	Operating m³/h
15	Connection Discharge side	EN PN16		Max- m³/h 37.6
16	Max Working Pressure bar	16		Min- m³/h 5.28
17	Shut-off head bar	1.59	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 13.5
19	Shaft power kW			- (Qmin.) m 16.5
20			Max. Shaft Power at max. impeller kW	1.95
21	Required pump NPSH m		Efficiency %	

Materials

22	Casing	SCS13		
23	Impeller	SCS13		
24	Shaft	SUS329J3L/S35C		
25	Case wear ring	SUS316		
26	O-ring	FKM		
27	Mechanical Seal	SiC/Carbon/FKM		

Motor

28	Manufacturer	EBARA Standard	Insulation class	F
29	Type	100L_2.2_3_380	Phases	3~
30	Specific design	TEFC/B3/AESV1S / 50 Hz / Pole pairs 2	Frame size	100L
31	Rated power kW	2.2	Weight kg	32
32	Number of poles	4	Electric voltage V	380
33	Speed rpm	1435	Electric current A	5.28
34	Degree of protection	IP55		
35				

Remarks

Performance Curve

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Requested data

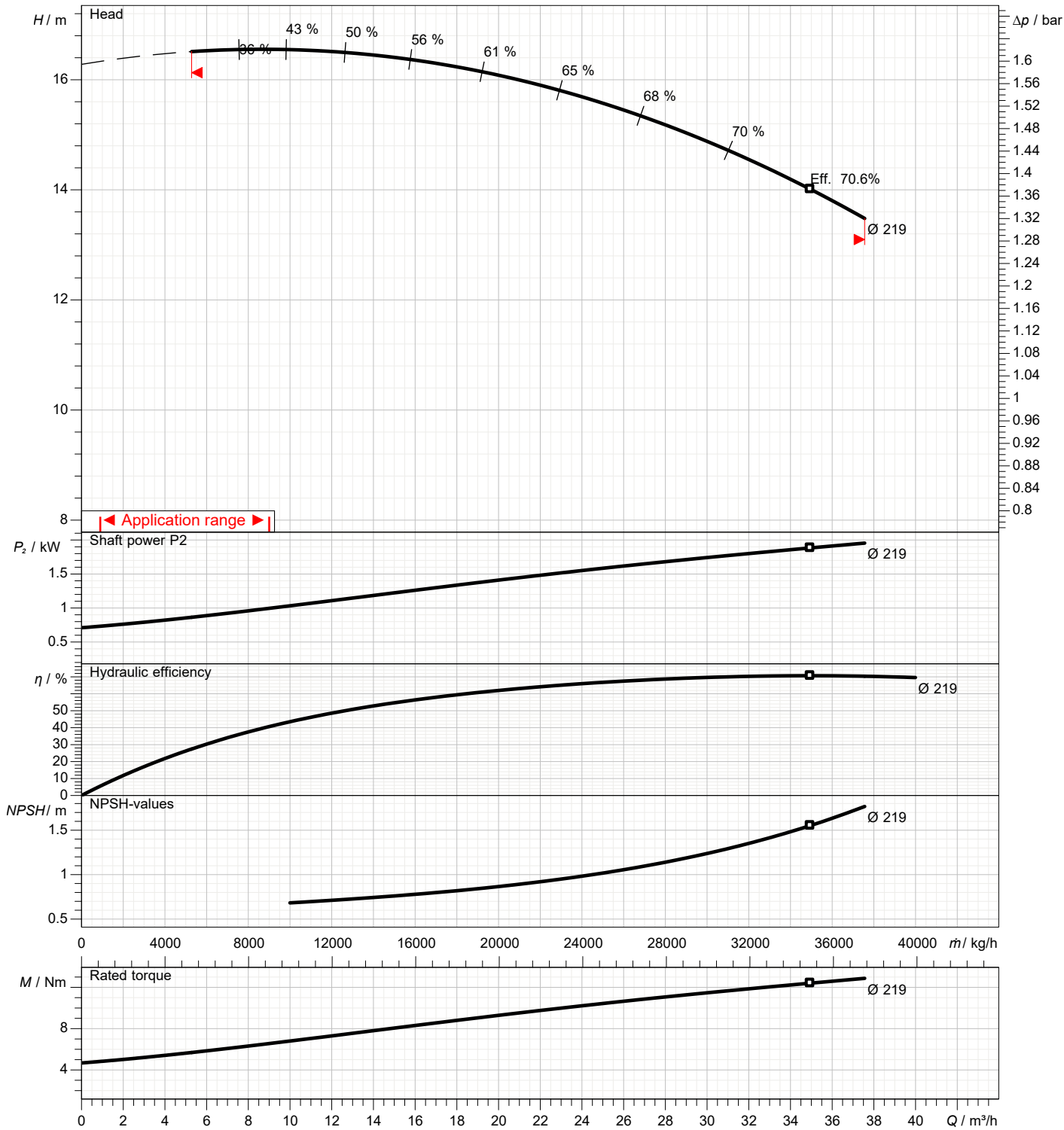
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	219	Speed	rpm	1450

Test standard: ISO 9906:2012 - Grade3B

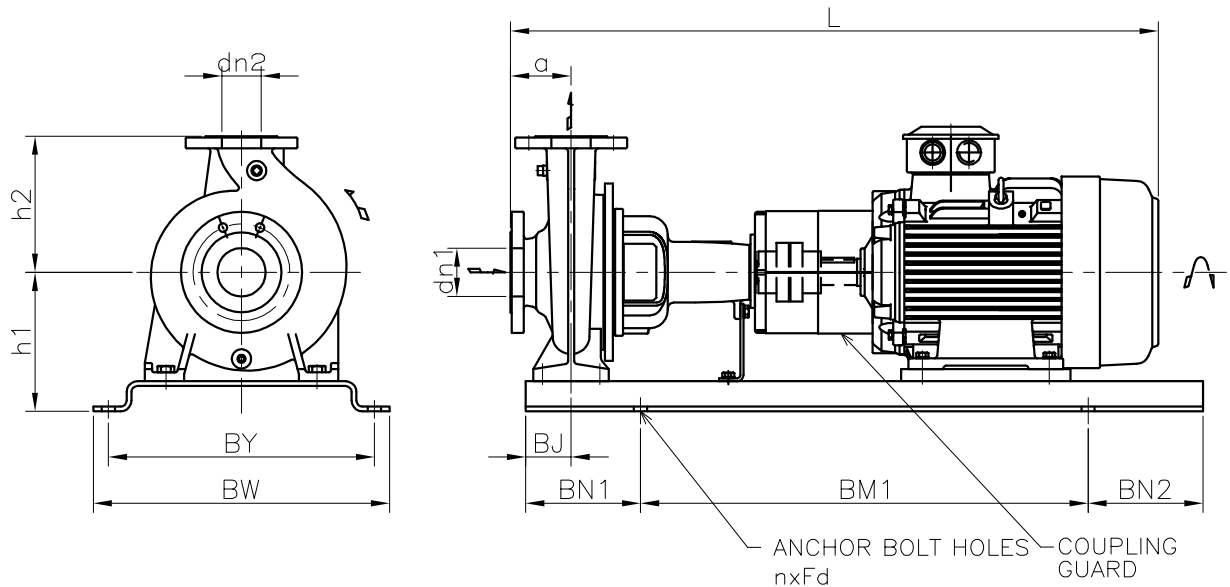
Water; 20°C; 998.3kg/m³; 1mm²/s



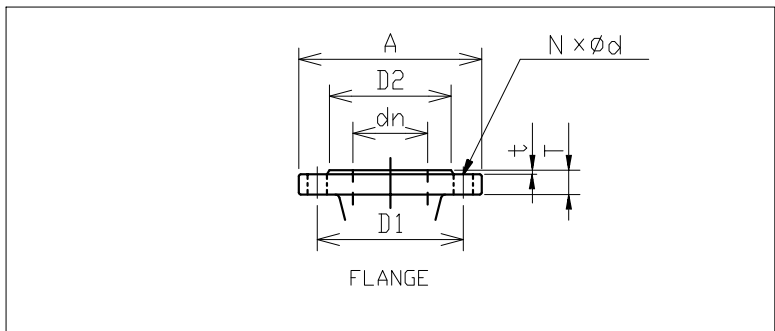
Dimensions

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This base is not necessary to grout.
Special base can be provided for grouting.



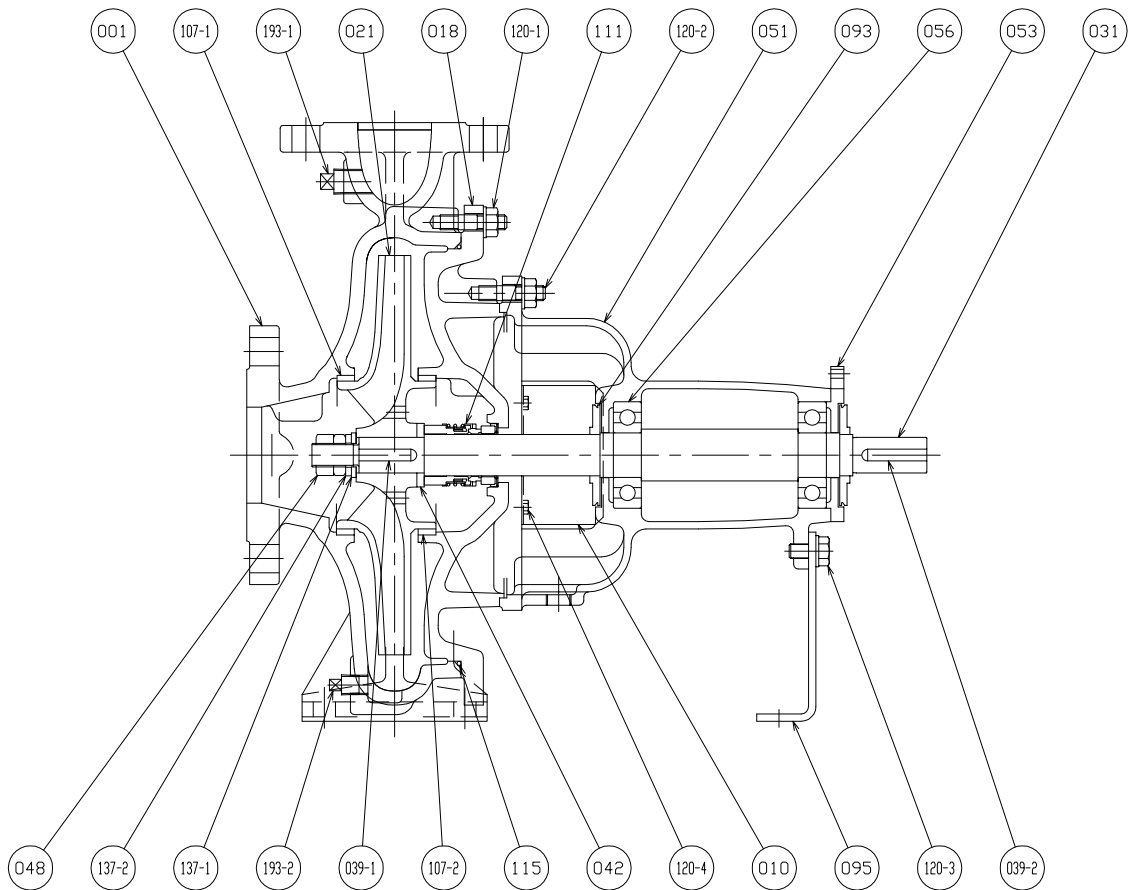
Total weight : 112 kg

Pump dimensions				mm		Suction side		mm		Discharge side		mm	
a	100					A	185			A	150		
BJ	60					d	18			d	18		
BM1	540					D1	145			D1	110		
BN1	130					D2	122			D2	88		
BN2	130					dn	65			dn	40		
BW	390					N	4(Num)			N	4(Num)		
BY	350					t	2			t	2		
dn1	65					T	18			T	18		
dn2	40												
h1	210												
h2	180												
L	855												
nxFd	4xM16												

Construction

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(※1) Duplex stainless steel is used for wetted part only. The remaining atmospheric side of shaft is made of carbon steel.

107-2	CASING RING	SUS316	X5CrNiMo17-12-2(1.4401)	1					
107-1	CASING RING	SUS316	X5CrNiMo17-12-2(1.4401)	1					
095	STAY	SPHC	-	1					
093	DEFLECTOR	-	-	2					
056	BALL BEARING	-	-	2					
053	BEARING COVER	FC150	EN-GJL-150(EN-JL1020)	1					
051	BEARING HOUSING	FC150	EN-GJL-150(EN-JL1020)	1					
048	IMPELLER NUT	SUS304	X5CrNi18-10(1.4301)	1	193-2	PLUG	SUS304	X5CrNi18-10(1.4301)	1
042	SPACER	SUS304	X5CrNi18-10(1.4301)	1	193-1	PLUG	SUS304	X5CrNi18-10(1.4301)	1
039-2	KEY	S50C	C50(1.0540)	1	137-2	SPRING LOCK WASHER	SUS304	X5CrNi18-10(1.4301)	1
039-1	KEY	SUS316	X5CrNiMo17-12-2(1.4401)	1	137-1	PLAIN WASHER	SUS304	X5CrNi18-10(1.4301)	1
031	SHAFT(※1)	SUS329J3L /S35C	X2CrNiMo22-5-3(1.4462) /C35	1	120-4	BOLT	SS	-	4
021	IMPELLER	SCS13	GX5CrNi19-10(1.4308)	1	120-3	BOLT	SS	-	1
018	CASING COVER	SCS13	GX5CrNi19-10(1.4308)	1	120-2	BOLT	SS	-	6
010	PROTECTOR	SPCC	DC01(1.0330)	2	120-1	BOLT	SS	-	-
001	CASING	SCS13	GX5CrNi19-10(1.4308)	1	115	O-RING	FKM	-	1
					111	MECHANICAL SEAL	-	-	1
No.	NAME OF PART	MATERIAL		Qty	No.	NAME OF PART	MATERIAL		Qty