

Technical data

Pump name

GS 150-200 /90

Customer	Date 2021-05-14	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 m ³ /h		Kin. viscosity	mm ² /s 1.005
4	Head m		Vapour pressure	kPa 2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density	kg/m ³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature °C	20		

Pump

9	Pump name	GS 150-200 /90	Frequency	Hz 50
10	Design	End Suction Volute Pump	Installation type	with ISO base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 211
12	Speed rpm	2900		Designed mm 211
13	No. of Stage	1		Min. mm 164
14	Connection Suction side	EN PN16	Flow	Operating m ³ /h
15	Connection Discharge side	EN PN16		Max- m ³ /h 792
16	Max Working Pressure kPa	1600		Min- m ³ /h 88.8
17	Shut-off head kPa	539.12	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 24.9
19	Shaft power kW			- (Qmin.) m 55.6
20			Max. Shaft Power at max. impeller	kW 83.51
21	Required pump NPSH m		Efficiency	%

Materials

22	Casing	FC250		
23	Impeller	FC200		
24	Shaft	SUS431eq.		
25	Case wear ring	CAC406		
26	O-ring	NBR		
27	Mechanical Seal	SiC/Carbon/FKM		

Motor

28	Manufacturer	TECHTOP	Insulation class	F
29	Type	280M_90_3_400	Phases	3~
30	Specific design	TEFC/B3/IE3/TC / 50 Hz / Pole pairs 1	Frame size	280M_2P
31	Rated power kW	90	Weight	kg 641
32	Number of poles	2	Electric voltage	V 400
33	Speed rpm	2940	Electric current	A 149
34	Degree of protection	IP55		
35				

Remarks

Performance curve

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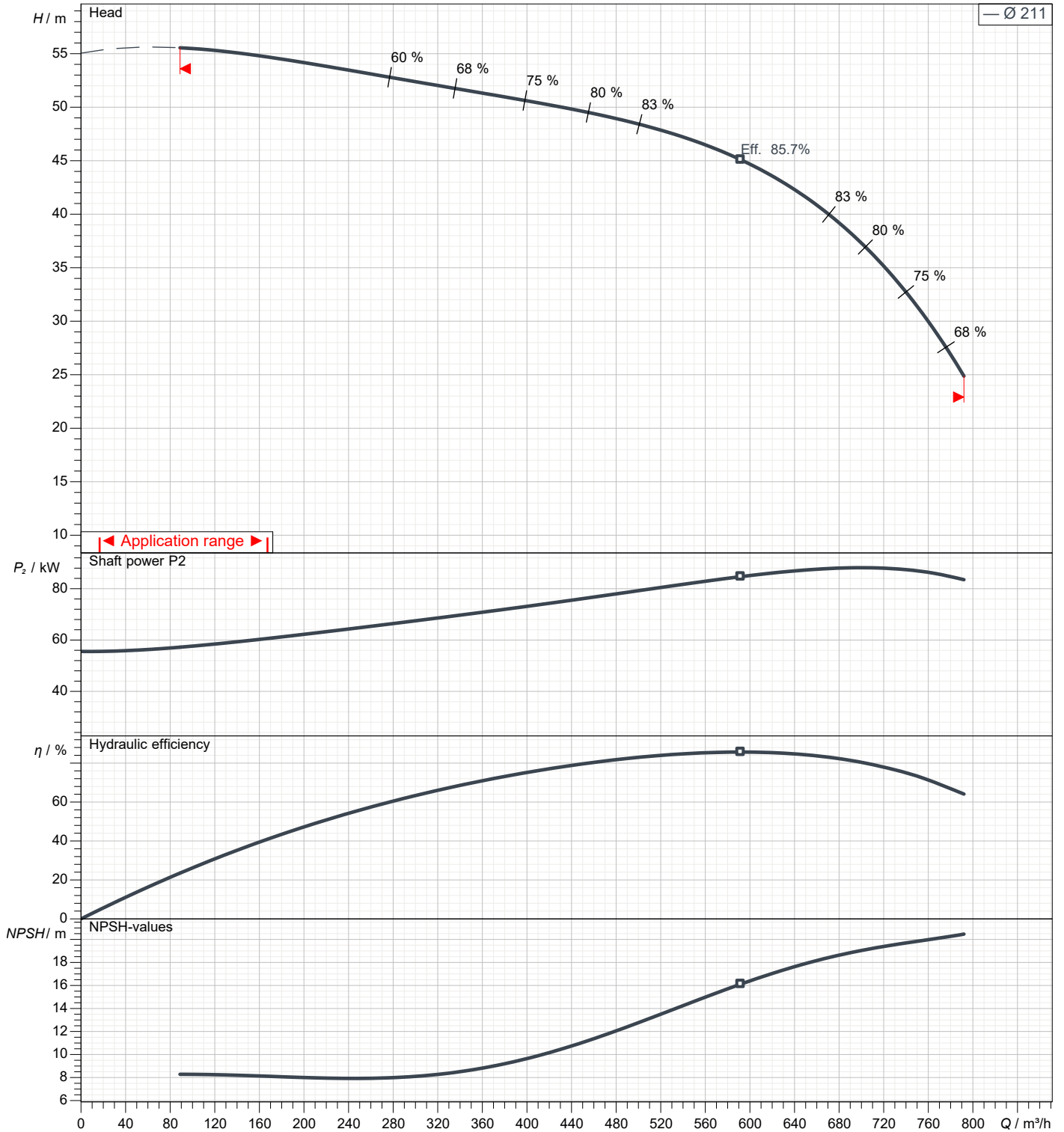
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles		2
ImpellerDiameter Designed	mm	211	Speed	rpm 2900

Test standard: ISO 9906:2012 - Grade3B

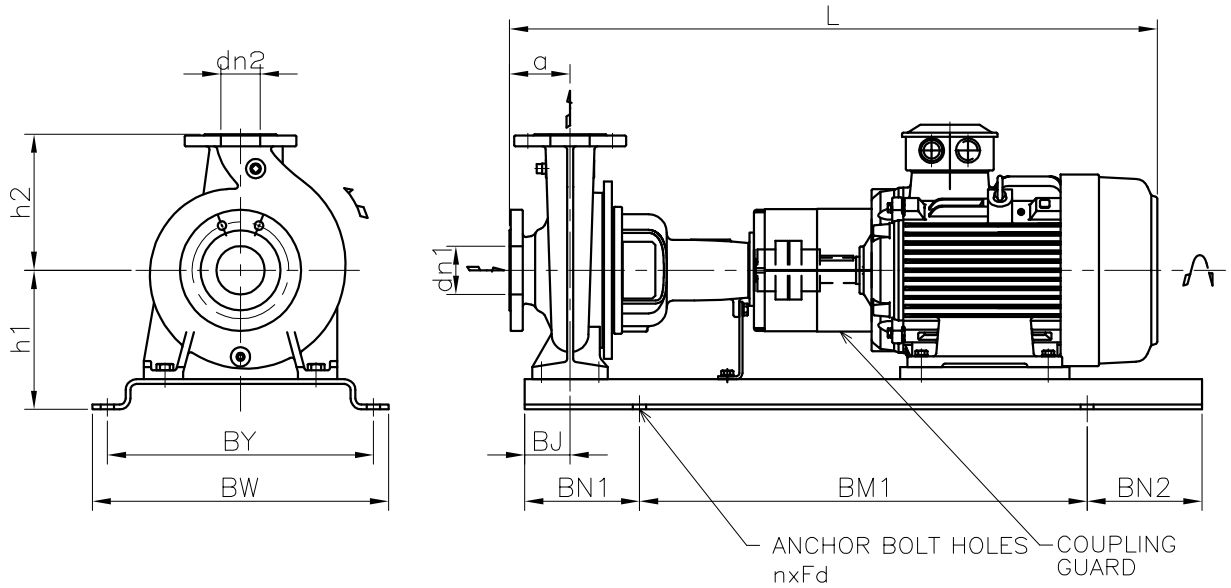
Water; 20°C; 998.3kg/m³; 1mm²/s



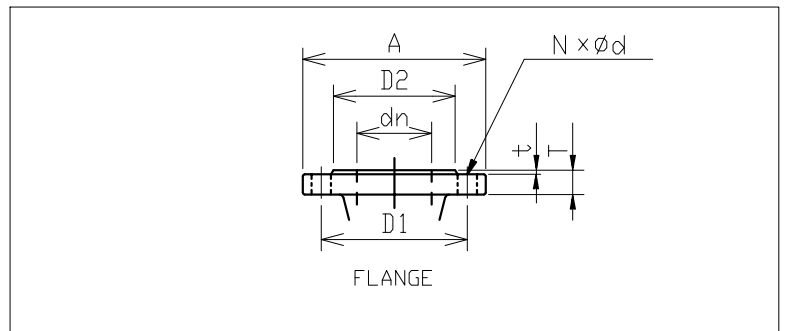
Dimensions

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



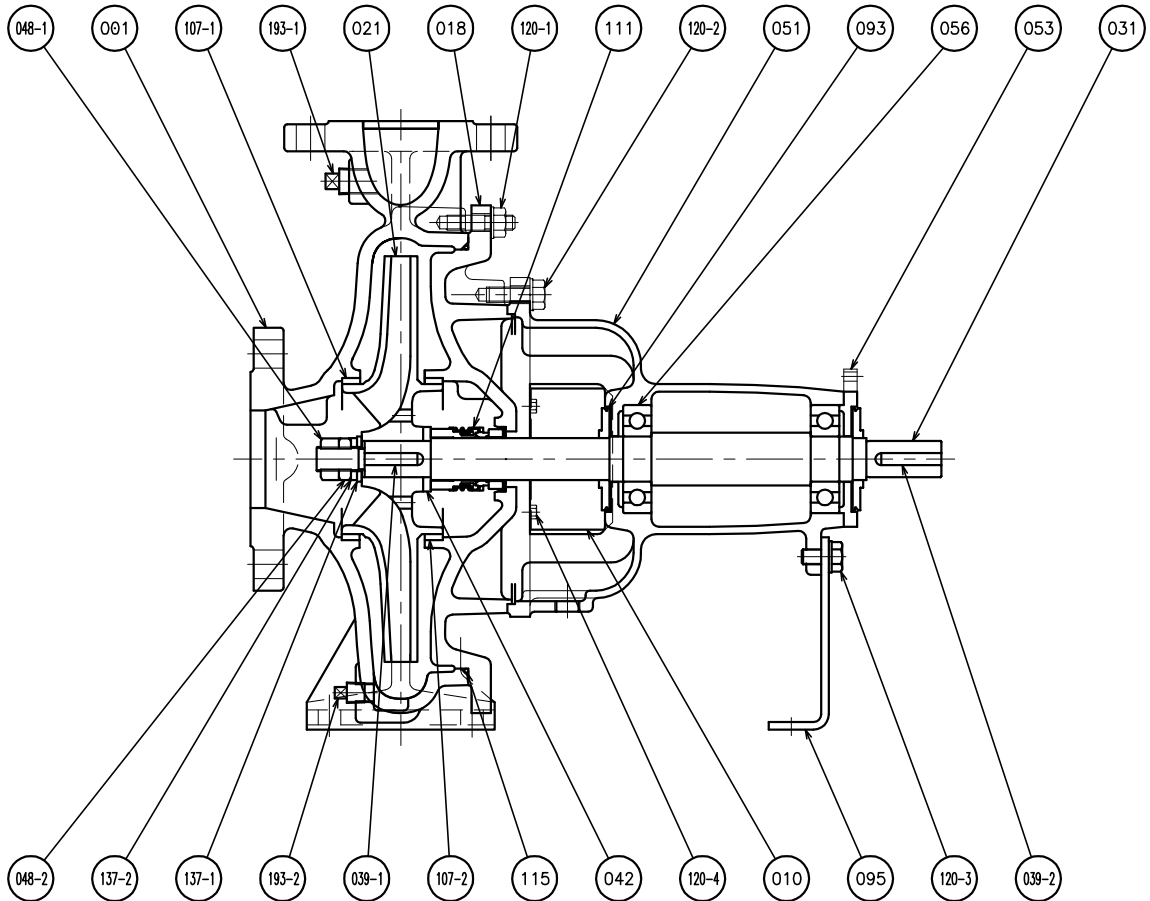
Total weight : 915 kg

Pump dimensions		mm	Suction side	mm	Discharge side	mm
a	160		A	340	A	285
dn1	200		d	23	d	23
dn2	150		D1	295	D1	240
h1	280		D2	266	D2	211
h2	355		dn	200	dn	150
L	1665		N	12(Num)	N	8(Num)
			t	2	t	2
			T	30	T	26

Construction

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193-2	PLUG	SS	1	CARBON STEEL
193-1	PLUG	SS	1	CARBON STEEL
137-2	SPRING LOCK WASHER	SUS304	1	304 STAINLESS STEEL
137-1	PLAIN WASHER	SUS304	1	304 STAINLESS STEEL
120-4	BOLT WITH WASHER	SS400	4	CARBON STEEL
120-3	BOLT WITH WASHER	SS400	1	CARBON STEEL
120-2	BOLT WITH WASHER	SS400	6	CARBON STEEL
120-1	BOLT & NUT WITH WASHER	SS400	N	CARBON STEEL
115	O RING	NBR	1	
111	MECHANICAL SEAL	-	1	
107-2	CASING RING	CAC406	1	BRONZE
107-1	CASING RING	CAC406	1	BRONZE
095	STAY	SPHC	1	CARBON STEEL
093	DEFLECTOR	EPDM	2	
056	BALL BEARING	-	2	
053	BEARING COVER	FC150	1	CAST IRON
051	BEARING HOUSING	FC150	1	CAST IRON
048-2	IMPELLER NUT(B)	SUS304	1	304 STAINLESS STEEL
048-1	IMPELLER NUT(A)	SUS304	1	304 STAINLESS STEEL
042	SPACER	SUS304	1	304 STAINLESS STEEL
039-2	KEY	S50C	1	CARBON STEEL
039-1	KEY	SUS420Q	1	12% Cr. STEEL
031	SHAFT	SUS431eq.	1	Cr. STEEL
021	IMPELLER	FC200	1	CAST IRON
018	CASING COVER	FC250	1	CAST IRON
010	PROTECTOR	SPCC	2	CARBON STEEL
001	CASING	FC250	1	CAST IRON
No.	NAME OF PART	MATERIAL	Qty	REMARKS