

# Technical data

Pump name

GS 80-250 /11

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	m³/h	Kin. viscosity	mm²/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/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature	°C 20		

## Pump

9	Pump name	GS 80-250 /11	Frequency	Hz 50
10	Design	End Suction Volute Pump	Installation type	with ISO base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 270
12	Speed	rpm 1450		Designed mm 270
13	No. of Stage	1		Min. mm 220
14	Connection Suction side	EN PN16	Flow	Operating m³/h
15	Connection Discharge side	EN PN16		Max- m³/h 180
16	Max Working Pressure	kPa 1600		Min- m³/h 20.3
17	Shut-off head	kPa 241.59	Head	Operating m
18	Total weight	kg See the table of "Dimensions".		- (Qmax.) m 17.4
19	Shaft power	kW		- (Qmin.) m 24.8
20			Max. Shaft Power at max. impeller	kW 10.93
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	160M_11_3_400	Phases	3~
30	Specific design	TEFC/B3/IE3/TC / 50 Hz / Pole pairs 2	Frame size	160M
31	Rated power	kW 11	Weight	kg 153
32	Number of poles	4	Electric voltage	V 400
33	Speed	rpm 1440	Electric current	A 19.1
34	Degree of protection	IP55		
35				

## Remarks

# Performance curve

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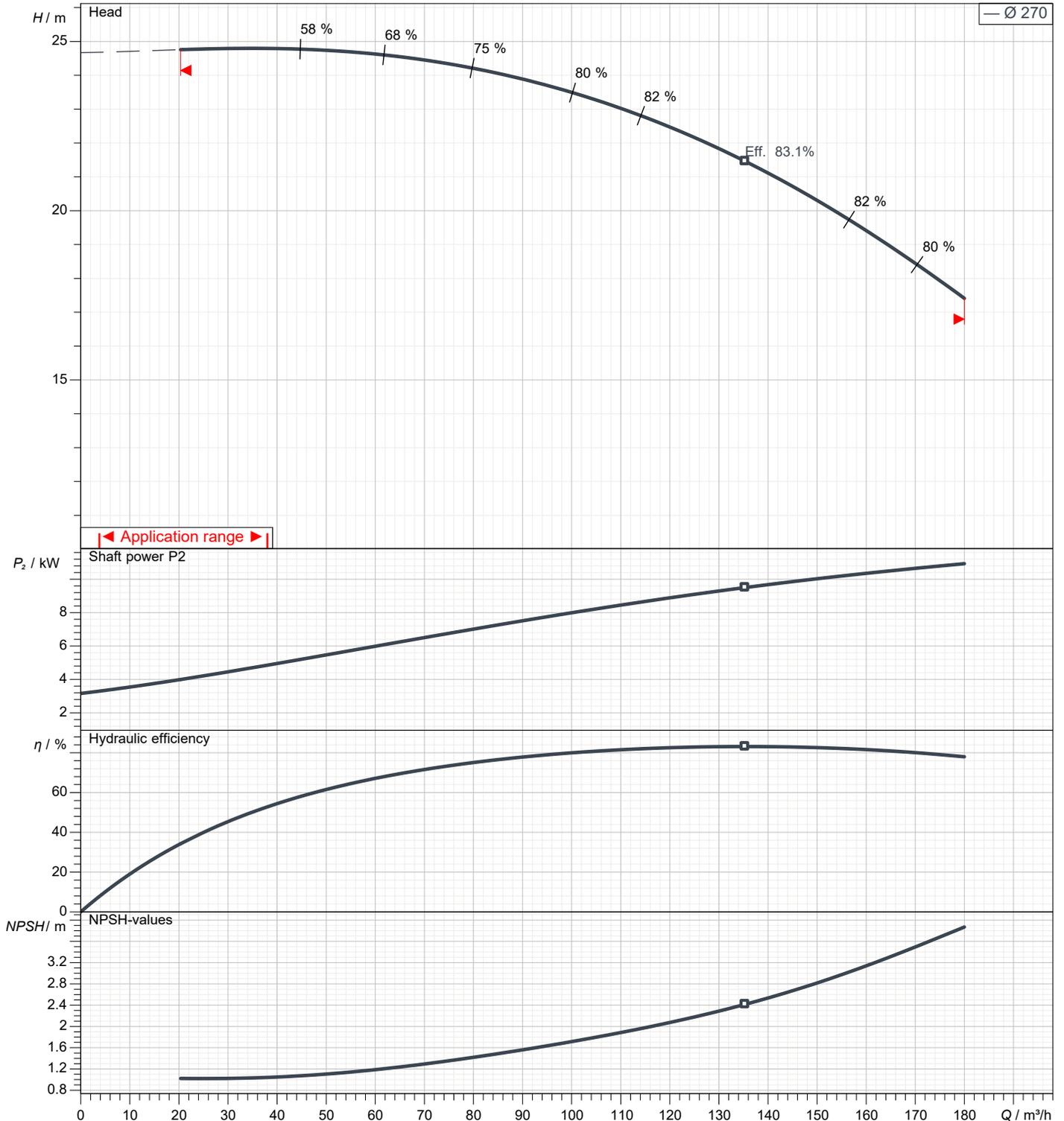
1	Flow	m <sup>3</sup> /h	
2	Head	m	
3	Geodetic head	m	

## Pump

Operating Flow	m <sup>3</sup> /h		Frequency	Hz	50
Operating Head	m		Number of poles		4
ImpellerDiameter Designed	mm	270	Speed	rpm	1450

Test standard: ISO 9906:2012 - Grade3B

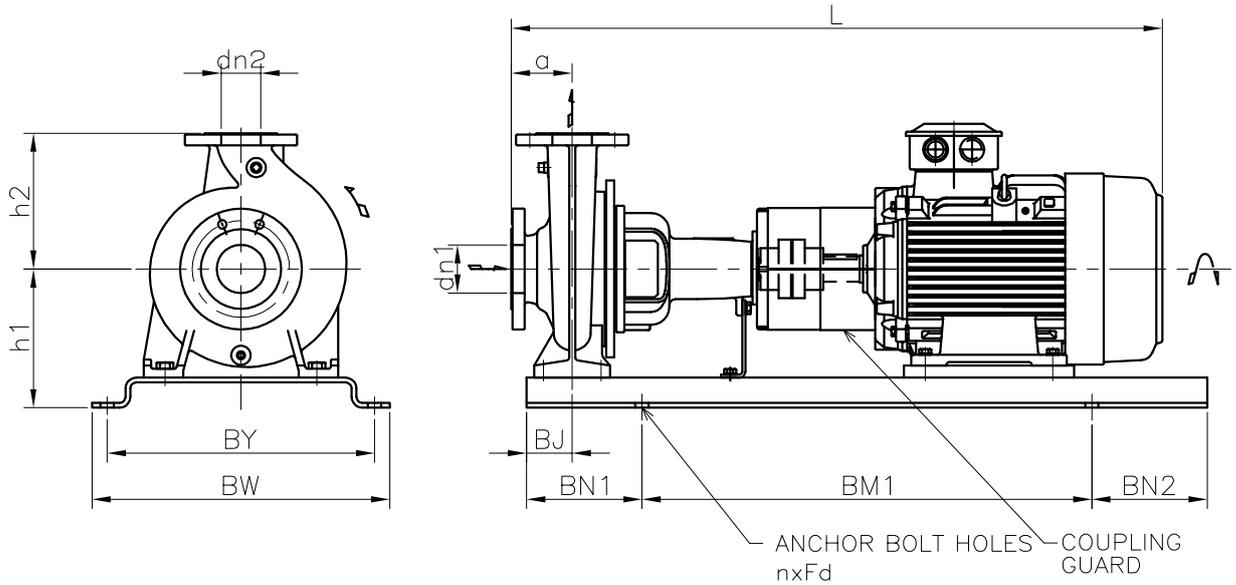
Water; 20°C; 998.3kg/m<sup>3</sup>; 1mm<sup>2</sup>/s



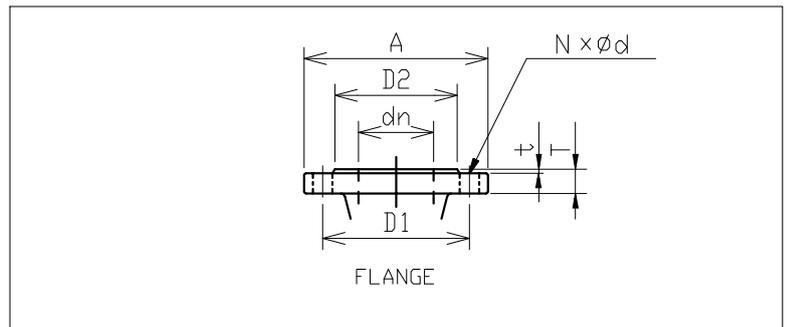
# Dimensions

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



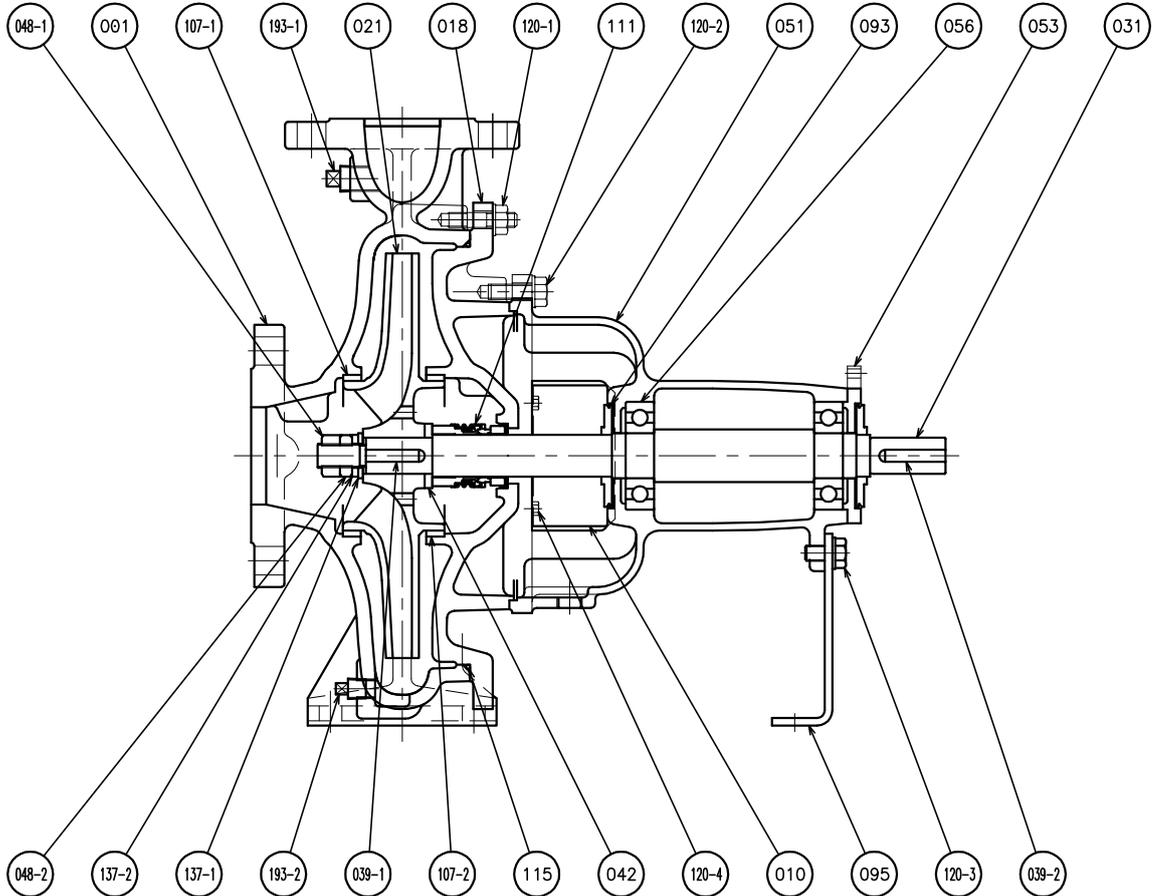
Total weight : 291 kg

Pump dimensions		mm	Suction side		mm	Discharge side		mm
a	125		A	220	A	200		
BJ	75		d	19	d	19		
BM1	840		D1	180	D1	160		
BN1	205		D2	156	D2	132		
BN2	205		dn	100	dn	80		
BW	610		N	8(Num)	N	8(Num)		
BY	550		t	2	t	2		
dn1	100		T	24	T	22		
dn2	80							
h1	275							
h2	280							
L	1204							
nxFd	4xM24							

# 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