

# Technical data

Pump name

GS 50-250 /5.5

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 50-250 /5.5	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 210
14	Connection Suction side	EN PN16	Flow	Operating m³/h
15	Connection Discharge side	EN PN16		Max- m³/h 64.7
16	Max Working Pressure	kPa 1600		Min- m³/h 8.4
17	Shut-off head	kPa 257.96	Head	Operating m
18	Total weight	kg See the table of "Dimensions".		- (Qmax.) m 21.1
19	Shaft power	kW		- (Qmin.) m 26.3
20			Max. Shaft Power at max. impeller	kW 5.06
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	WEG	Insulation class	F
29	Type	132S_5.5_3_400	Phases	3~
30	Specific design	TEFC/B3/IE3/W22 / 50 Hz / Pole pairs 2	Frame size	132S
31	Rated power	kW 5.5	Weight	kg 66
32	Number of poles	4	Electric voltage	V 400
33	Speed	rpm 1460	Electric current	A 10.4
34	Degree of protection	IP55		
35				

## Remarks

# Performance curve

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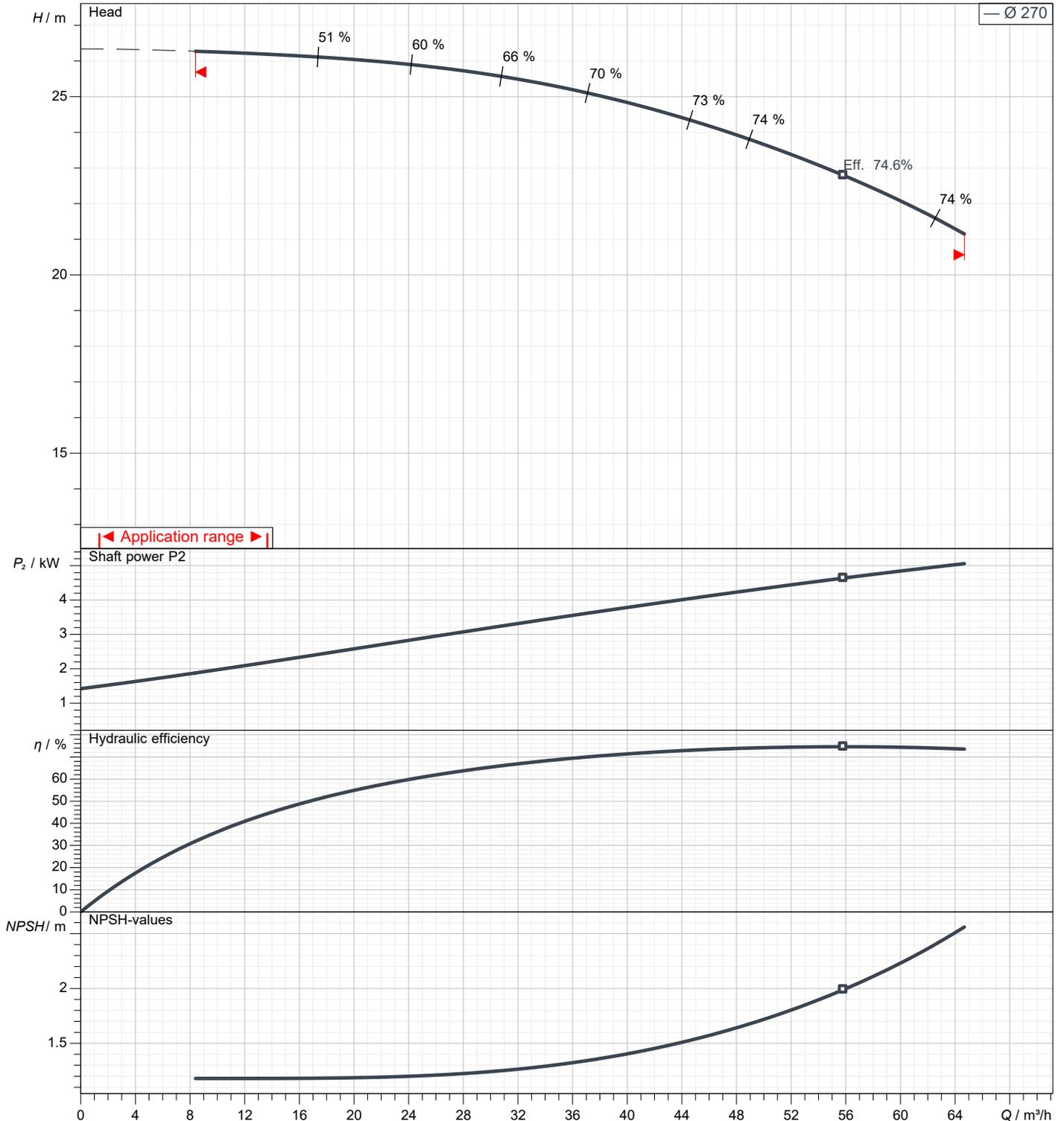
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

## Pump

Operating Flow	m³/h	Frequency	Hz	50
Operating Head	m	Number of poles		4
ImpellerDiameter Designed	mm	270	Speed	rpm 1450

Test standard: ISO 9906:2012 - Grade3B

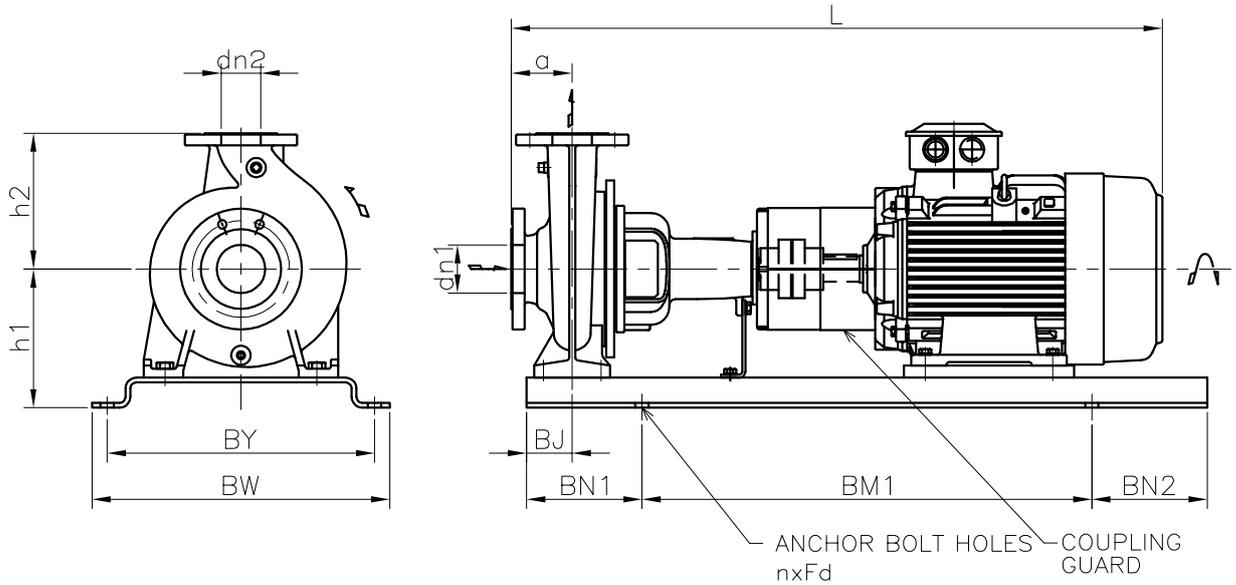
Water; 20°C; 998.3kg/m³; 1mm²/s



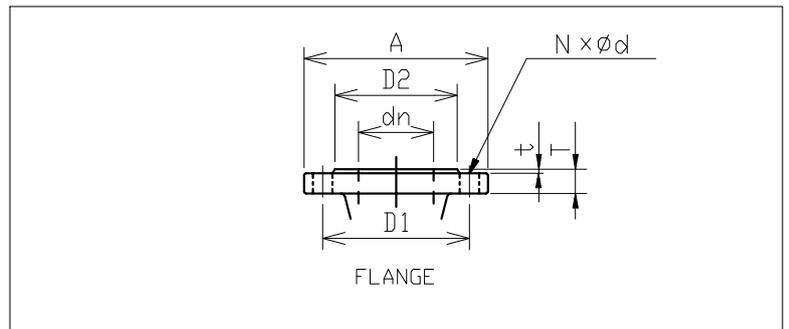
# Dimensions

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



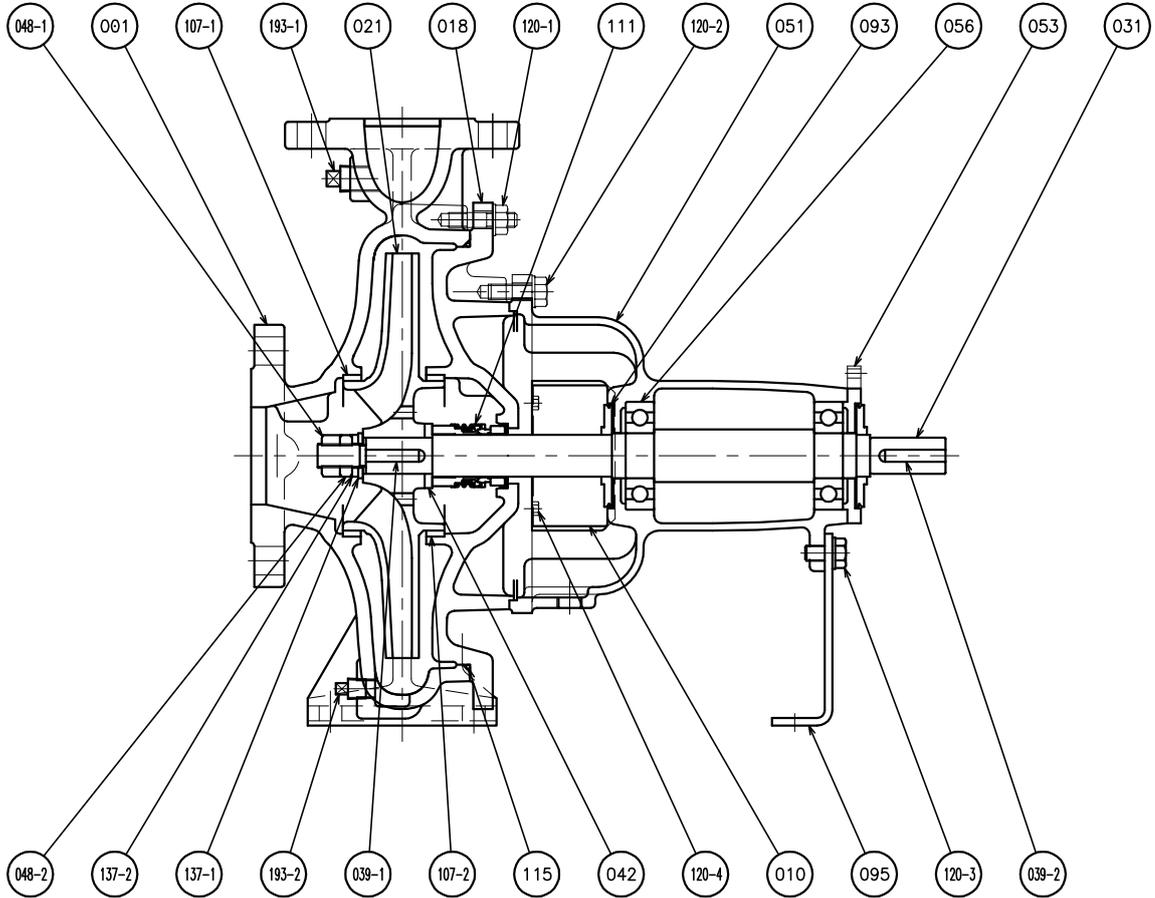
Total weight : 172 kg

Pump dimensions		mm	Suction side	mm	Discharge side	mm
a	100		A	185	A	165
BJ	75		d	19	d	19
BM1	600		D1	145	D1	125
BN1	150		D2	118	D2	99
BN2	150		dn	65	dn	50
BW	490		N	4(Num)	N	4(Num)
BY	440		t	2	t	2
dn1	65		T	20	T	20
dn2	50					
h1	230					
h2	225					
L	915					
nxFd	4xM20					

# 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