



BEST 2~5

Stainless Steel Submersible Sump Pumps



CONTENTS

50Hz

V10

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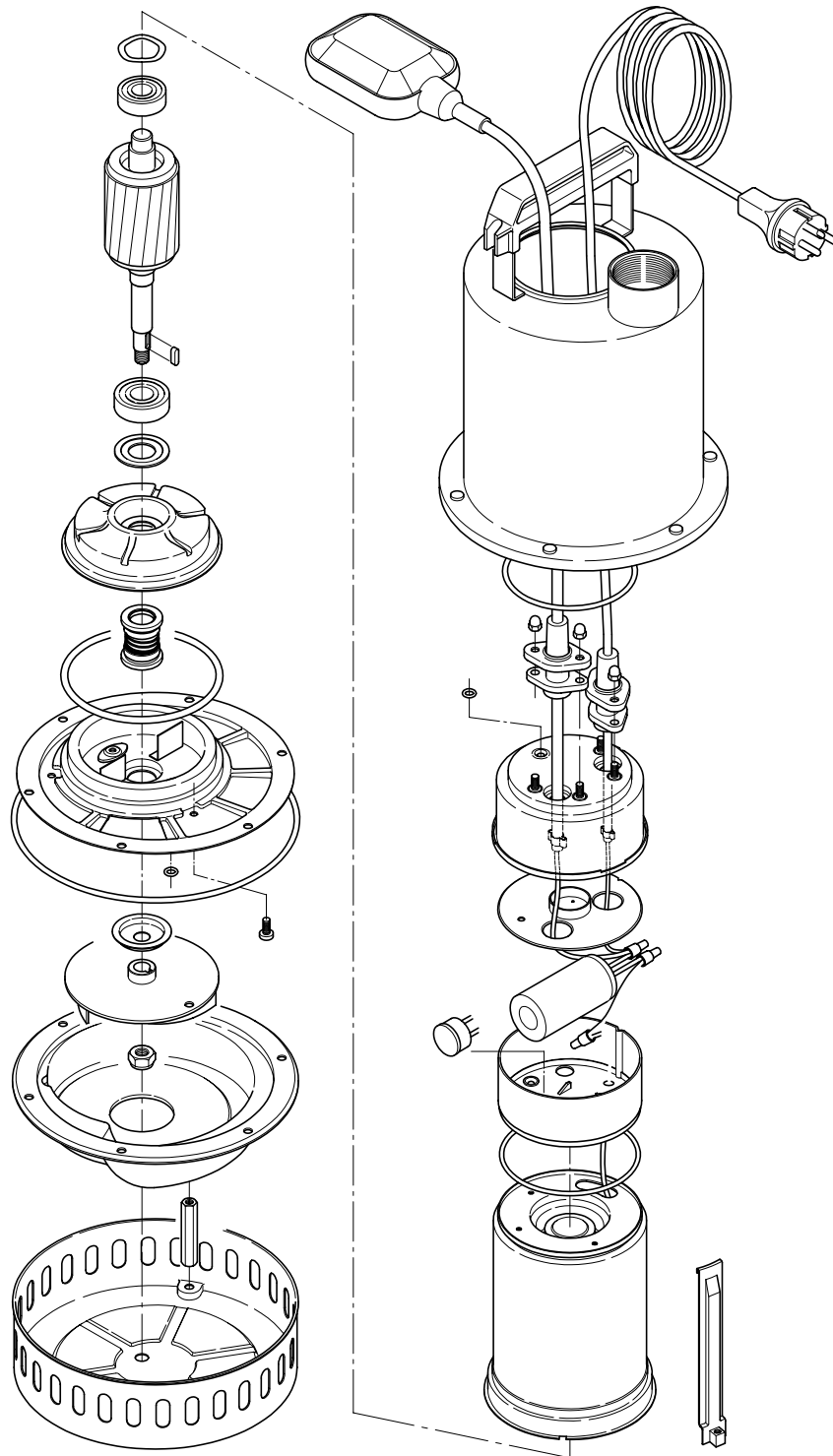
Best 2-5 submersible Pumps manufactured in AISI 304 Stainless Steel.
Available in single phase automatic or manual, three phase (manual only).
The Best 2-5 is a versatile series ideal for both fixed or mobile installations.

Features

- Pump body, impeller, suction grill, motor cover, seal housing disc and Motor case in AISI 304.
- Shaft in AISI 303.
- Twin Mechanical seal with oil chamber:
 - Upper in Carbon/Ceramic/NBR(motor side)
 - Lower in SiC/SiC/NBR (pump side)
- In built motor protection.
- 10 mm maximum solids handling.
- Float switch design.

Applications

- Moving seepage water.
- General draining i.e. basements, cellars.
- Tank transfer.



SPECIFICATIONS

50 Hz

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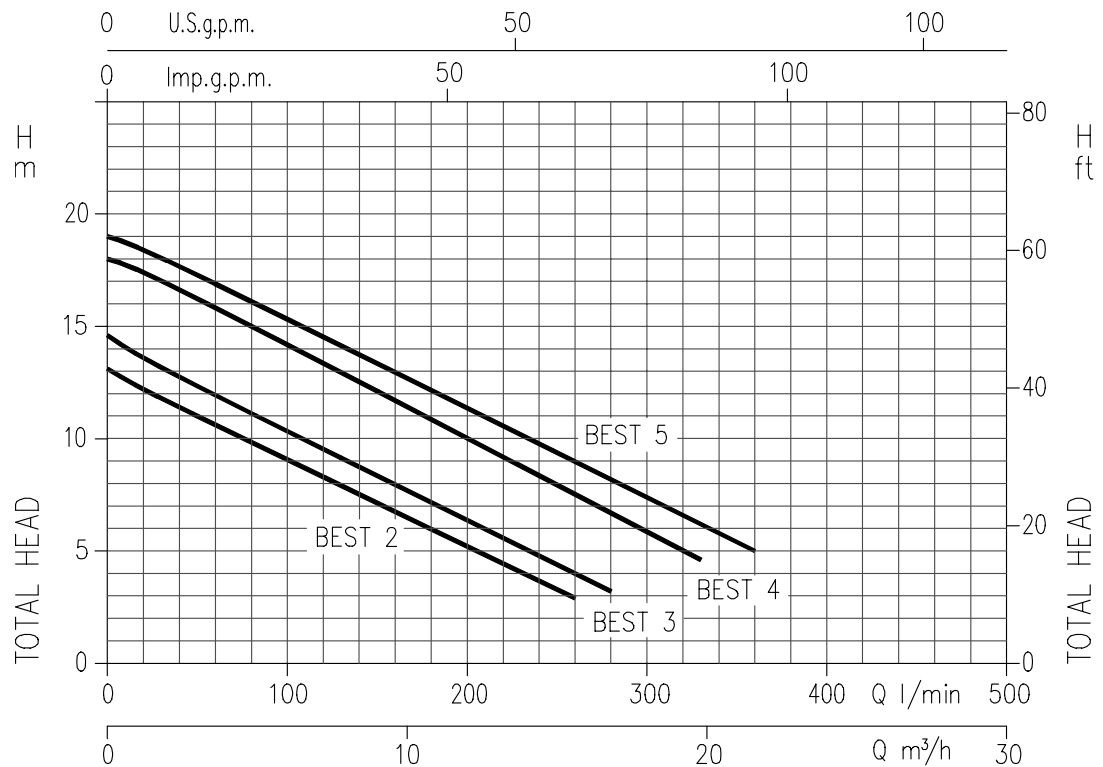
PUMP		
Liquid Handled	Type of liquid	Clean / dirty water
	Max temperature [°C]	35
	Max solids size [mm]	10 (suspended particles)
Maximum immersion [m]		10
Construction	Impeller	Open centrifugal type
	Shaft seal type	Double mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction-Flange	Strainer
	Discharge-Flange [inch]	G 1½ UNI ISO 228
Material	Casing	AISI 304
	Impeller	AISI 304
	Casing cover	AISI 304
	Shaft seal	Pump side : Sic/Sic/NBR Motor side : Carbon/Ceramic/NBR
	Seal cover	AISI 304
	Shaft	AISI 303 (wet extension)
	Lubricating liquid	White mineral oil ESSO MARCOL 172 (180 cc)
Applicable standard of test		ISO 9906 - Annex A

MOTOR		
Type	Submersible dry type	
	Single Phase	Three Phase
No. of Poles	2	
Rotation speed [min ⁻¹]	≈2800	
Insulation Class	F	
Protection degree	IP 68	
Power rating [kW]	0.55 ÷ 1.1	0.55 ÷ 1.5
	[HP]	0.75 ÷ 2
Frequency [Hz]	50	
Voltage [V]	230 ±10%	400 ±10%
Capacitor	Built in	-
Over load protection	Built in	-
Float Switch	Optional	-
Float Switch Cable	material	H07RN-F
	size	3G1
Casing material	AISI 304	
Base material/motor support	AISI 304	
Power cable	length [m]	10
	material	H07RN-F
	size	3G1 (Best 2) 3G1.5 (Best 3, 4)
Dimensions of cable entry		Cable Gland

SELECTION CHART

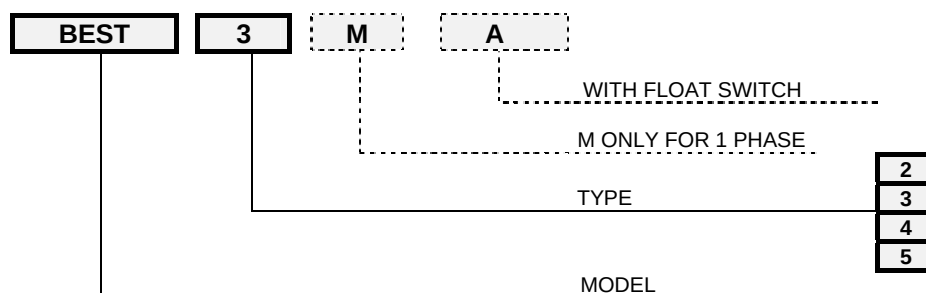
50Hz

V10

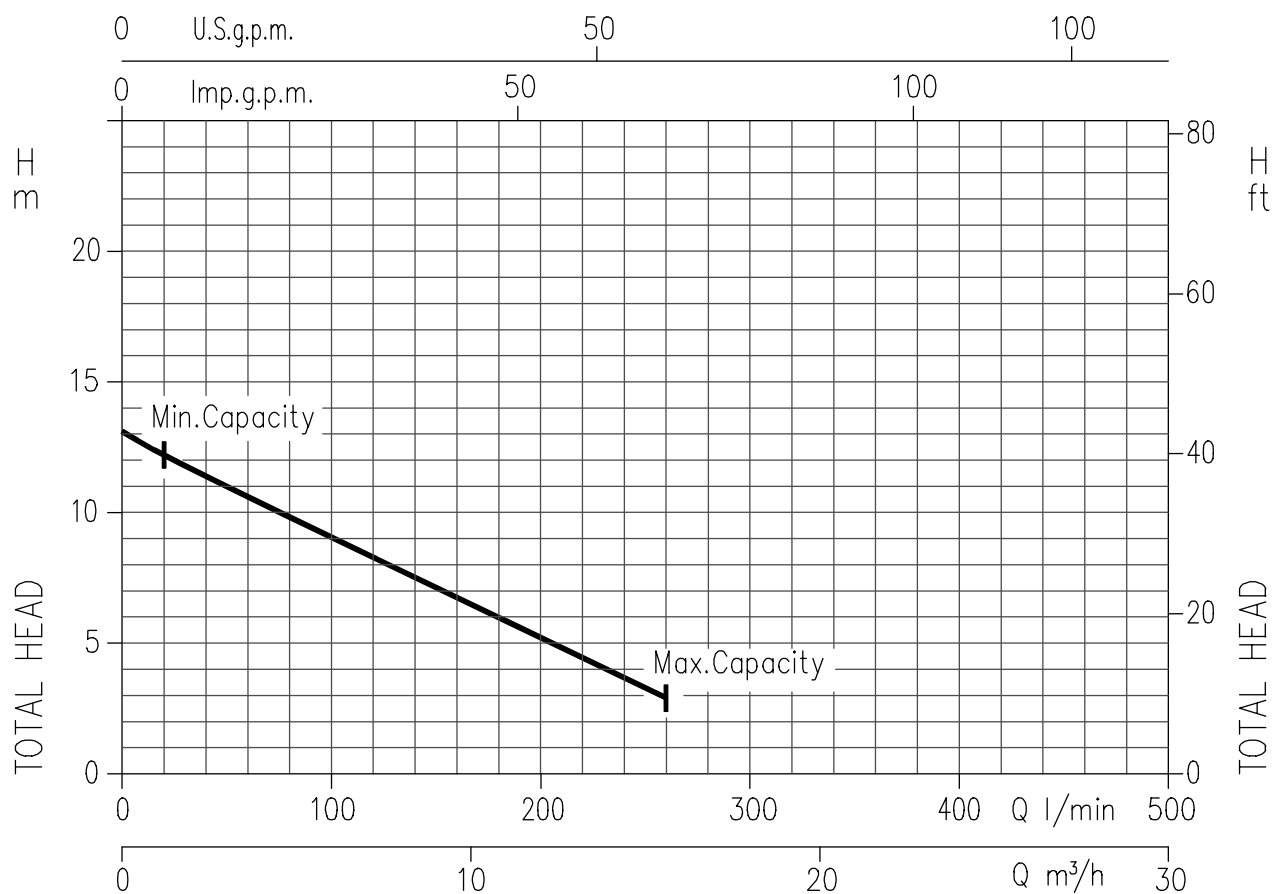


Pump type	kW	HP	Q=Capacity											
			l/min 20	40	80	120	160	170	200	260	280	300	330	360
			m³/h 1.2	2.4	4.8	7.2	9.6	10.2	12	15.6	16.8	18	19.8	21.6
H=Total manometric head in meters														
BEST 2	0.55	0.75	12.2	11.4	9.8	8.3	6.7	6.3	5	2.9	-	-	-	-
BEST 3	0.74	1	13.6	12.7	11.1	9.5	7.9	7.6	6.4	4	3.2	-	-	-
BEST 4	1.1	1.5	17.4	16.6	15	13.4	11.7	11.3	10	7.5	6.7	5.9	4.6	-
BEST 5	1.5	2	18.4	17.7	16.1	14.5	12.8	12.5	11.4	9	8	7.4	6	5

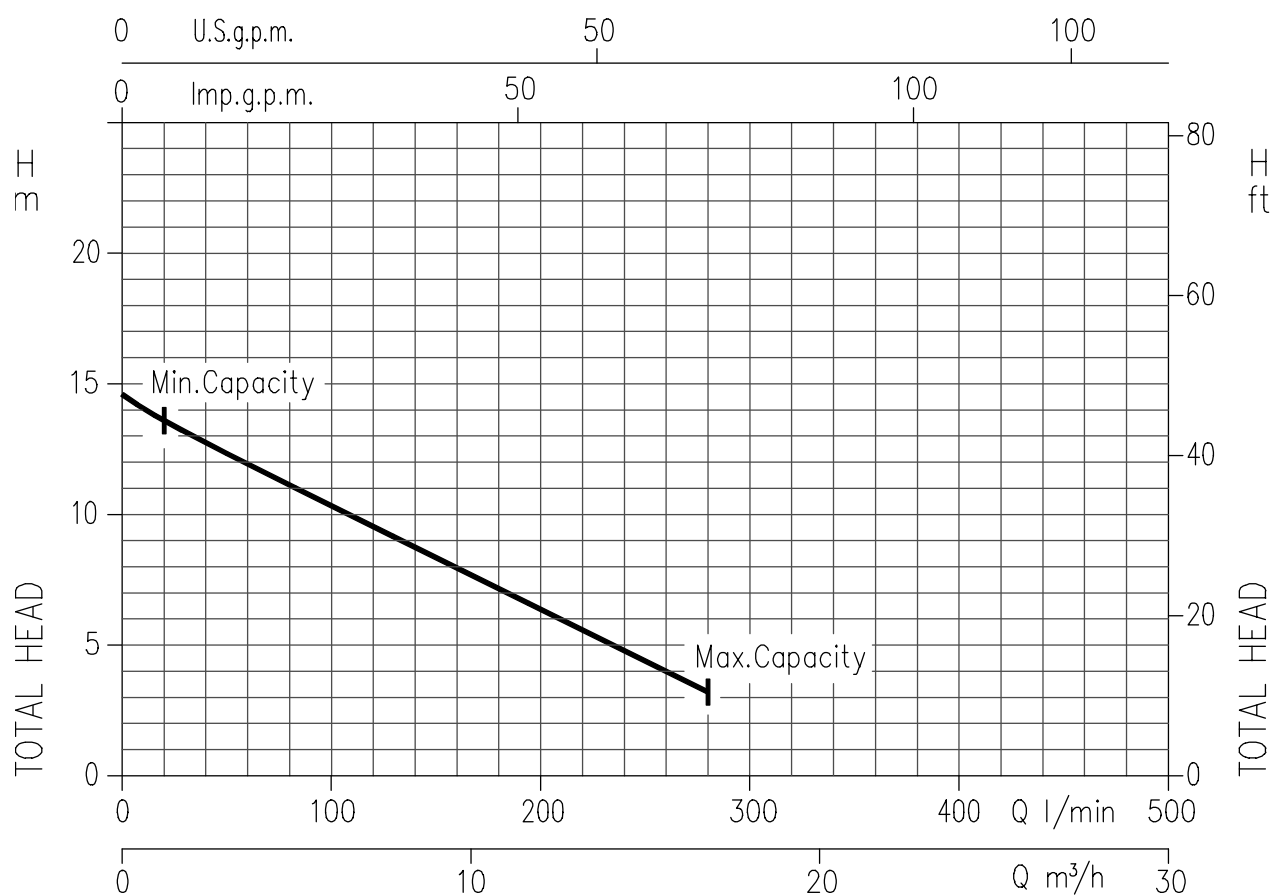
TYPE KEY:



PUMP CHARACTERISTIC PERFORMANCE

BEST 2 (0.55 kW) SYNCHRONOUS SPEED : 3000 min⁻¹

Temperature of water: 20°C
Impeller diameter = 112 mm
Applicable standard of test: ISO 9906 – Annex A

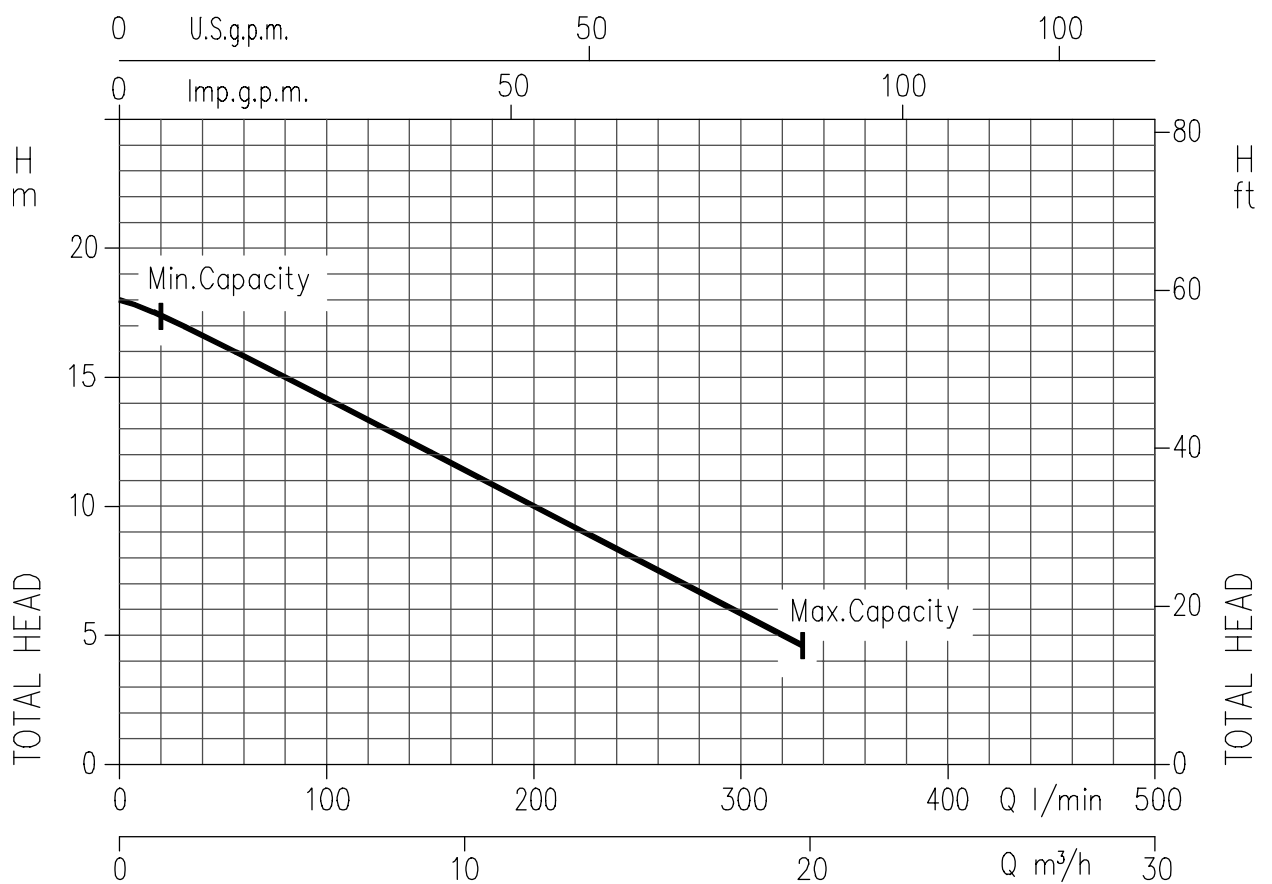
PUMP CHARACTERISTIC PERFORMANCE**BEST 3 (0.75 kW) SYNCHRONOUS SPEED : 3000 min⁻¹**

Temperature of water: 20°C

Impeller diameter = 120 mm

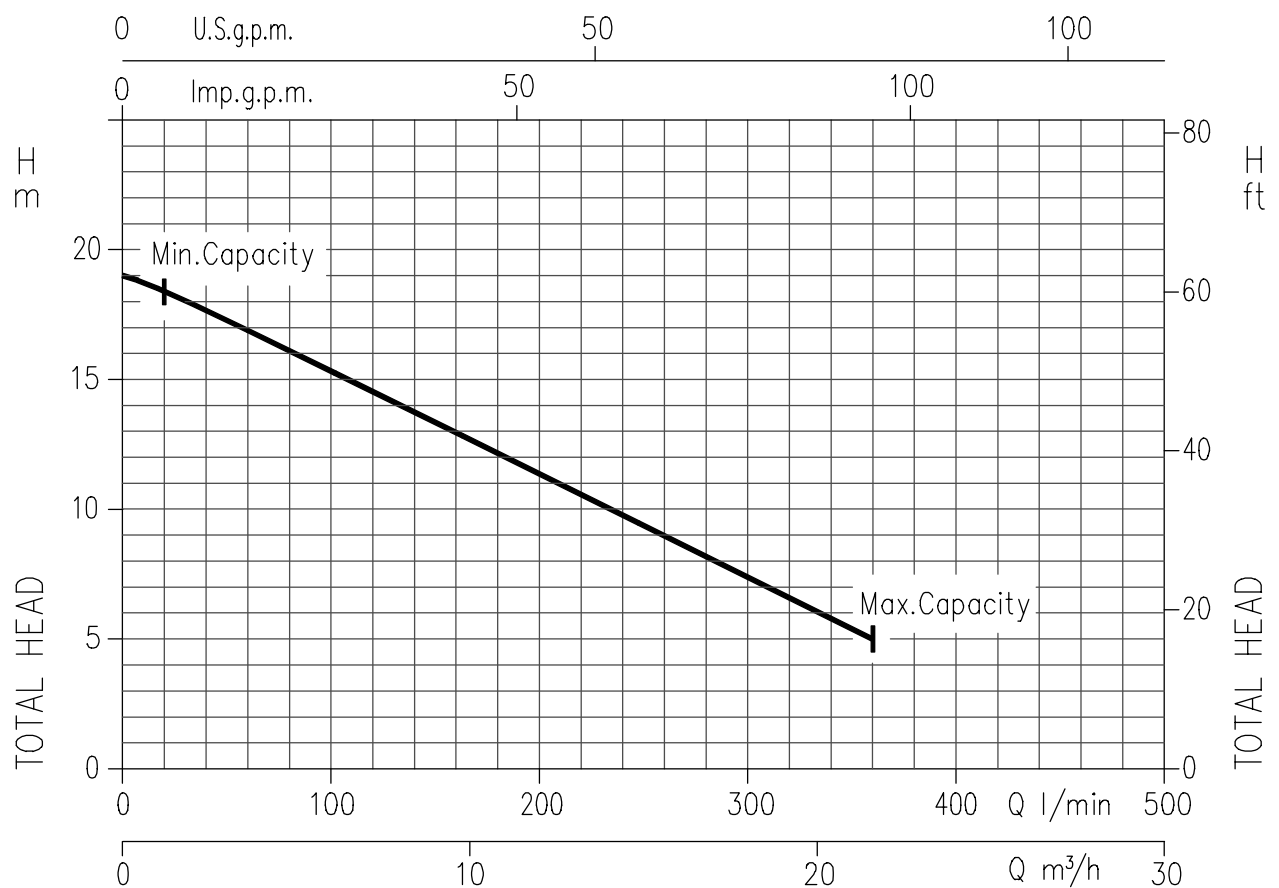
Applicable standard of test: ISO 9906 – Annex A

PUMP CHARACTERISTIC PERFORMANCE

BEST 4 (1.1 kW) SYNCHRONOUS SPEED : 3000 min⁻¹

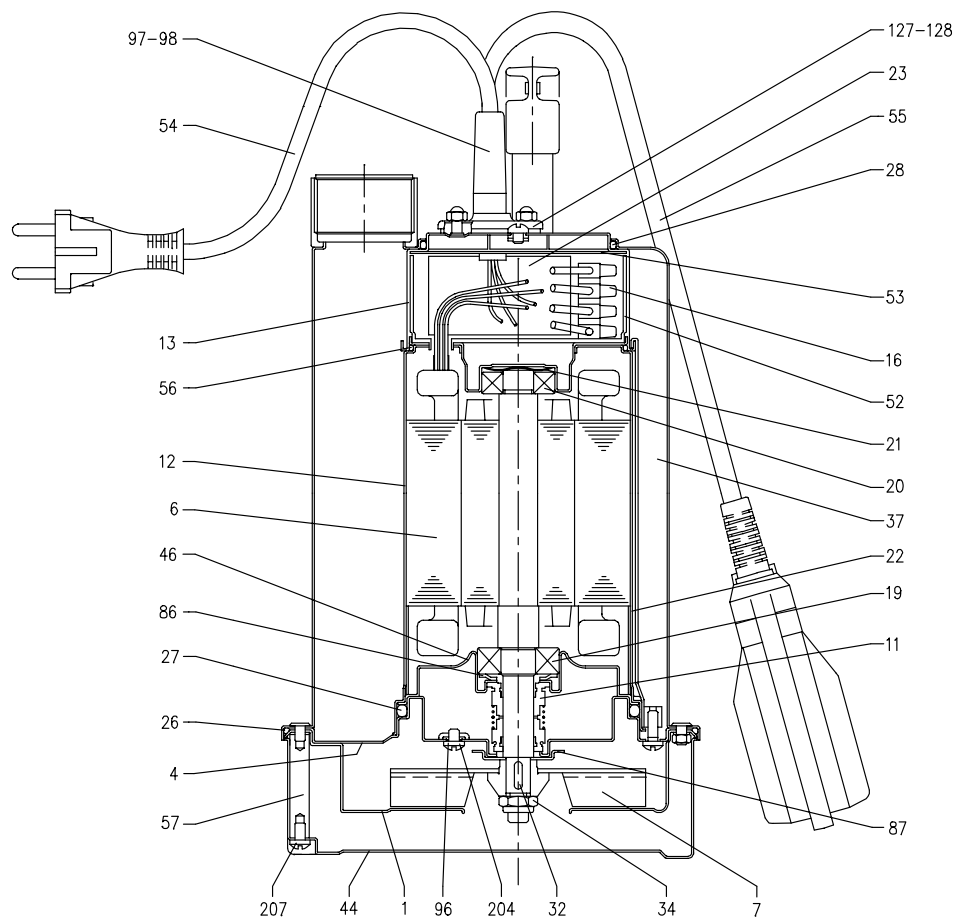
Temperature of water: 20°C
Impeller diameter = 125 mm
Applicable standard of test: ISO 9906 – Annex A

PUMP CHARACTERISTIC PERFORMANCE

BEST 5 (1.5 kW) SYNCHRONOUS SPEED : 3000 min⁻¹

Temperature of water: 20°C
Impeller diameter = 125 mm
Applicable standard of test: ISO 9906 – Annex A

SECTIONAL VIEW

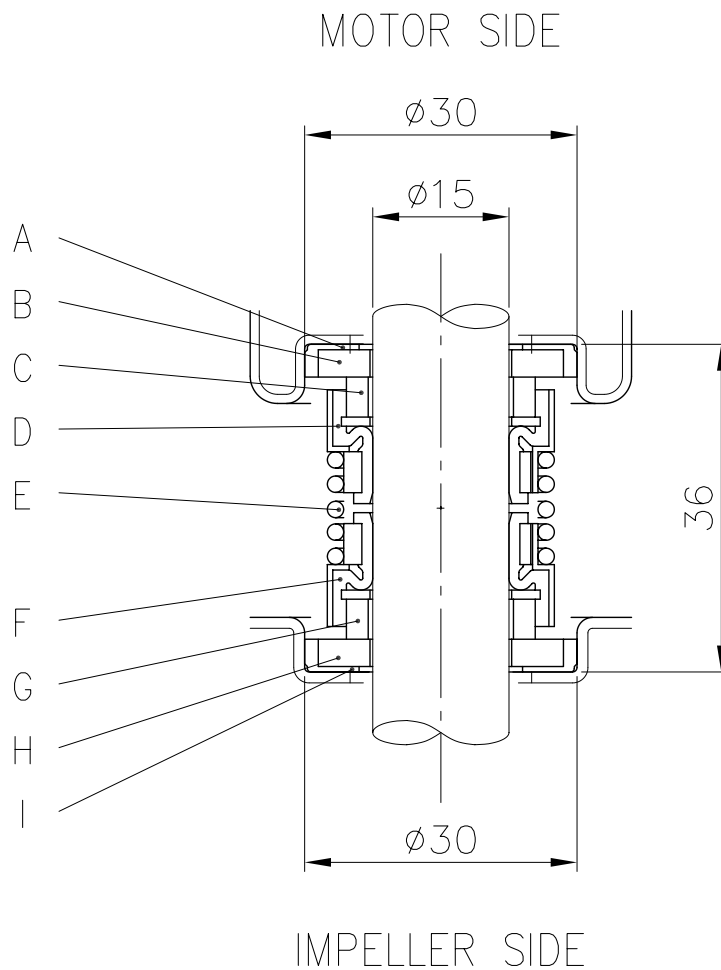


N°	PART NAME	MATERIAL	Q.TY	N°	PART NAME	MATERIAL	Q.TY
1	Volute	AISI 304	1	37	Pump casing	AISI 304	1
4	Motor bracket	AISI 304	1	44	Strainer	AISI 304	1
6	Shaft with rotor	AISI 303	1	46	Bearing housing	AISI 304	1
7	Impeller	AISI 304	1	52	Terminal insulating box	PA66 glass fibre reinforced	1
11	Mechanical seal	NBR	2	53	Terminal insulating cov	PA66	1
12	Motor frame with stator	-	1	54	Power cable	-	1
13	Motor cover	AISI 304	1	55	Float switch [1]	-	1
16	Terminal	-	1	56	"O" Ring	NBR	1
19	Pump side ball bearing	-	1	57	Bolt	AISI 303	3
20	Fan side ball bearing	-	1	86	Washer	AISI 304	1
21	Adjusting ring	Steel C70	1	87	Impeller ring	AISI 304	1
22	Tie rod	AISI 304	3	96	"O" Ring	NBR	3
23	Capacitor [2]	-	1	97	Cable connector [1]	NBR	1
26	"O" Ring	NBR	1	98	Cable connector	NBR	1
27	"O" Ring	NBR	1	127	Cable connector [1]	AISI 304	1
28	"O" Ring	NBR	1	128	Cable connector	AISI 304	1
32	Key	AISI 304	1	204	Screw	Stainless steel A2 UNI 7323	3
34	Impeller nut	AISI 304	1	207	Screw	Stainless steel A2 UNI 7323	3

[1] Only for version single phase with float switch

[2] Only for version single phase

MECHANICAL SEAL



REF	PART NAME	MATERIAL
A	Rubber cup	NBR
B	Seat	Ceramic
C	Seal face	Carbon
D	Bellow	NBR
E	Spring	AISI 304
F	Bellow	NBR
G	Seal face	Silicon carbide
H	Seat	Silicon carbide
I	Rubber cup	NBR

CONSTRUCTION

50 Hz

V10

DIAGRAM AND ELECTRIC CONNECTIONS

SINGLE PHASE MOTOR WITHOUT FLOAT SWITCH

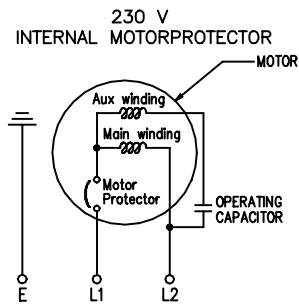
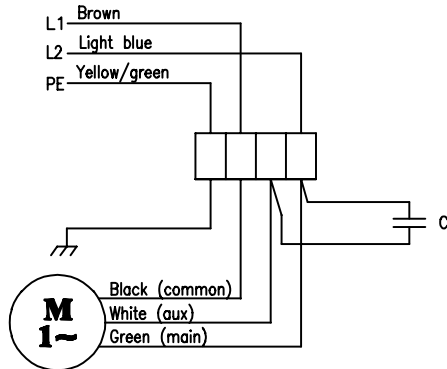


DIAGRAM AND ELECTRIC CONNECTIONS

SINGLE PHASE MOTOR WITH FLOAT SWITCH

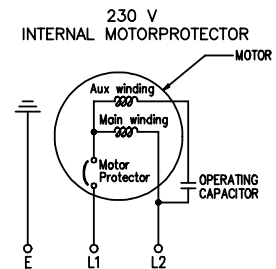
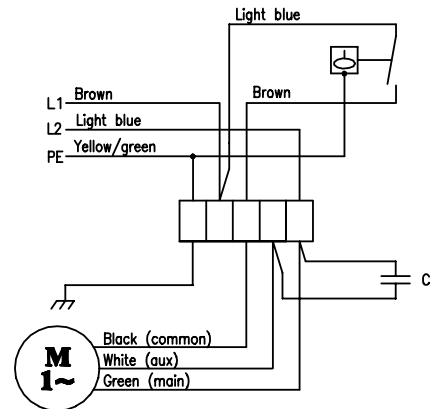
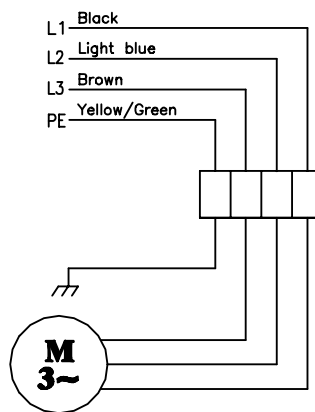
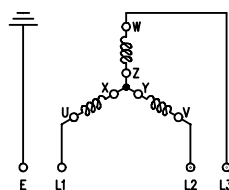


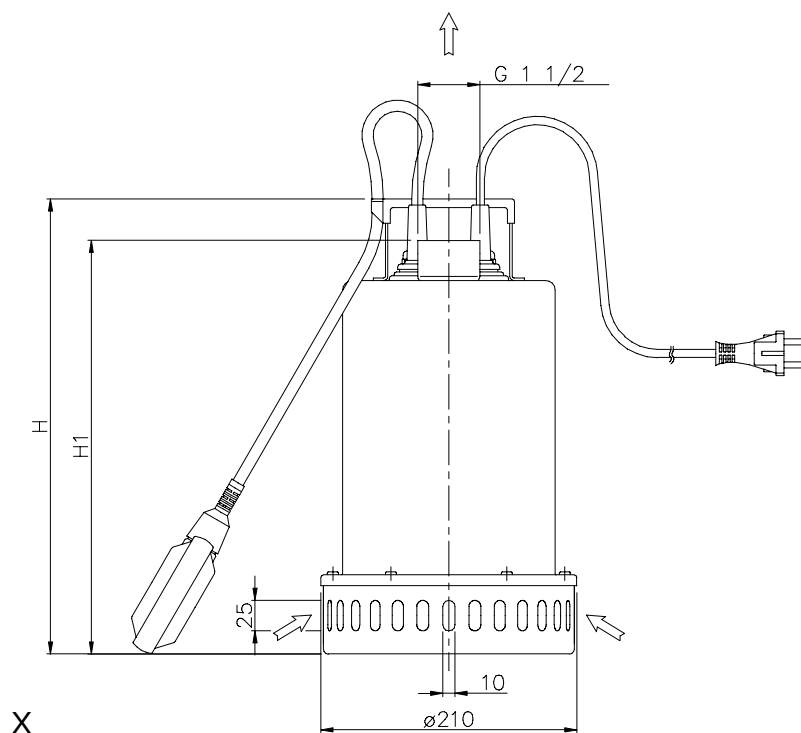
DIAGRAM AND ELECTRIC CONNECTIONS

THREE PHASE MOTOR

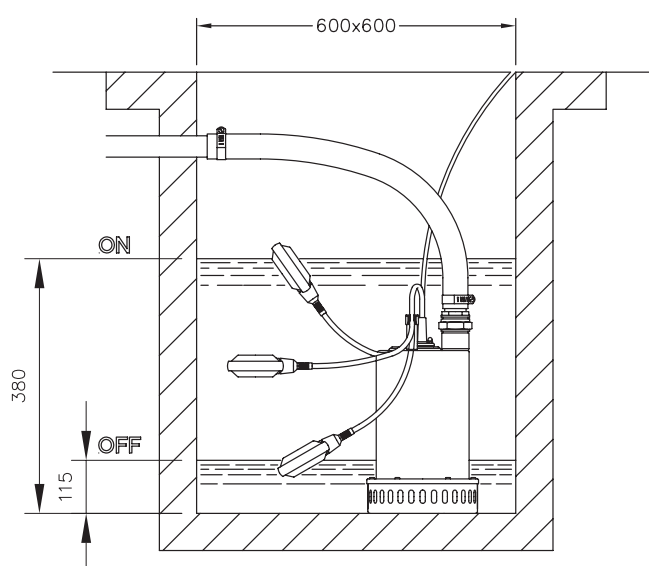


400 V STAR CONNECTION





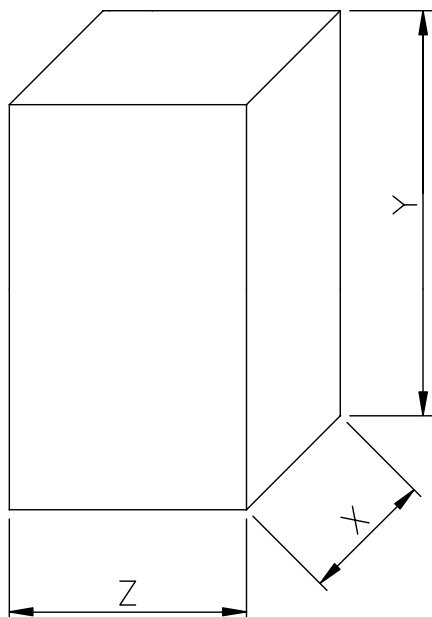
Pump type	Dimensions mm	
	H	H1
BEST 2	352	315
BEST 3	352	315
BEST 4	377	340
BEST 5	377	340



PACKING AND WEIGHT - TECHNICAL DATA

50Hz

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Type pumps		Packing [mm]			Weight [kg]
Single Phase	Three Phase	X	Y	Z	
BEST 2M	BEST 2	240	375	250	12
BEST 3M	BEST 3	240	375	250	12.7
BEST 4M	BEST 4	240	400	250	13.8
-	BEST 5	240	400	250	13.5

Type pumps		kW	HP	Capacitor		Input [kW]		Full load current [A]		Locked rotor current	
Single Phase 230 V 50 Hz	Three Phase 400 V 50 Hz			Single Phase μF	Three Phase V	Single Phase	Three Phase	Single Phase 230 V	Three Phase 400 V	Single Phase 230 V 50 Hz	Three Phase 400 V 50 Hz
BEST 2M	BEST 2	0,55	0,75	16	450	0,9	1,0	4,4	2,0	16	10
BEST 3M	BEST 3	0,75	1	20	450	1,3	1,2	5,6	2,4	20	12,5
BEST 4M	BEST 4	1,1	1,5	30	450	1,7	1,6	7,3	3,0	25	16,5
-	BEST 5	1,5	2	-	-	-	1,7	-	3,3	-	16,5

Type pumps		Ball Bearing	
Single Phase 230 V 50 Hz	Three Phase 400 V 50 Hz	Pump side	Fan side
BEST 2M	BEST 2	6203 ZZ	6202 ZZ
BEST 3M	BEST 3	6203 ZZ	6202 ZZ
BEST 4M	BEST 4	6203 ZZ	6202 ZZ
-	BEST 5	6203 ZZ	6202 ZZ