

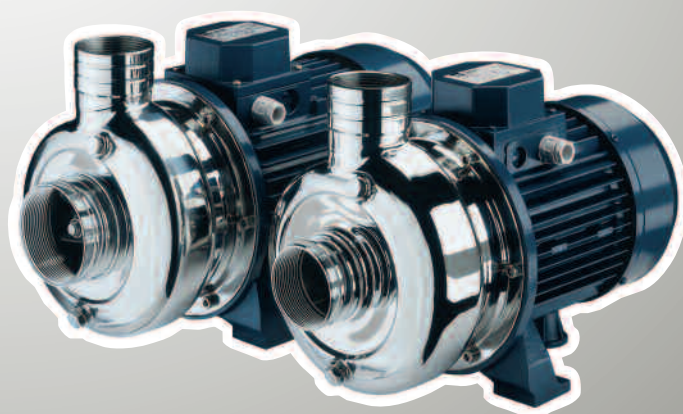


EBARA

DWO

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

60 Hz



OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304



Open impeller centrifugal electric pumps in AISI 304 stainless steel.

APPLICATIONS

- Washing vegetables, meat, fish, molluscs
- Industrial washing plants at cycle end
- Washing and surface finishing of metal pieces, boxes, washing bottles, vases, glass containers, crates, baskets
- Dishwashers, glasswashers, cupwashers for communities
- Painting booths
- Moving, evacuation, transfer of liquids

TECHNICAL DETAILS

- Strong construction
- Small dimensions
- Silent

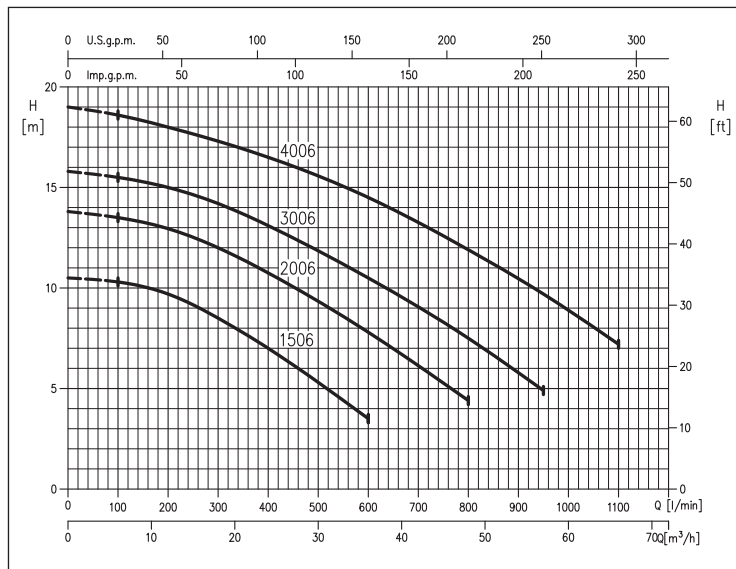
TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid: +90°C
+110°C for H-HS-HW versions
- Max. solids size for passage: 19 mm
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 220-230V $\pm$ 6%, 60Hz single phase voltage
220/380V -6 +10% 60Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version
- G2½ suction connection for DWO 3006-4006, G2 for the rest of the range
- G2 discharge connection

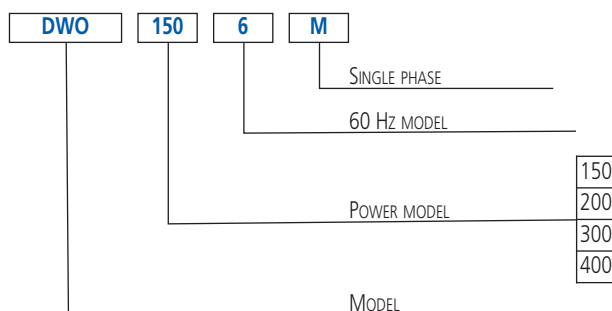
MATERIALS

- Pump body, seal housing disc, impeller and shaft in AISI 304
- Support and motor casing in aluminium
- Mechanical seal in: Ceramic/Carbon/NBR (standard)
 - Ceramic/Carbon/FPM (H version)
 - SiC/SiC/FPM (HS version)
 - Tungsten carbide/Tungsten carbide/FPM (HW version)

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



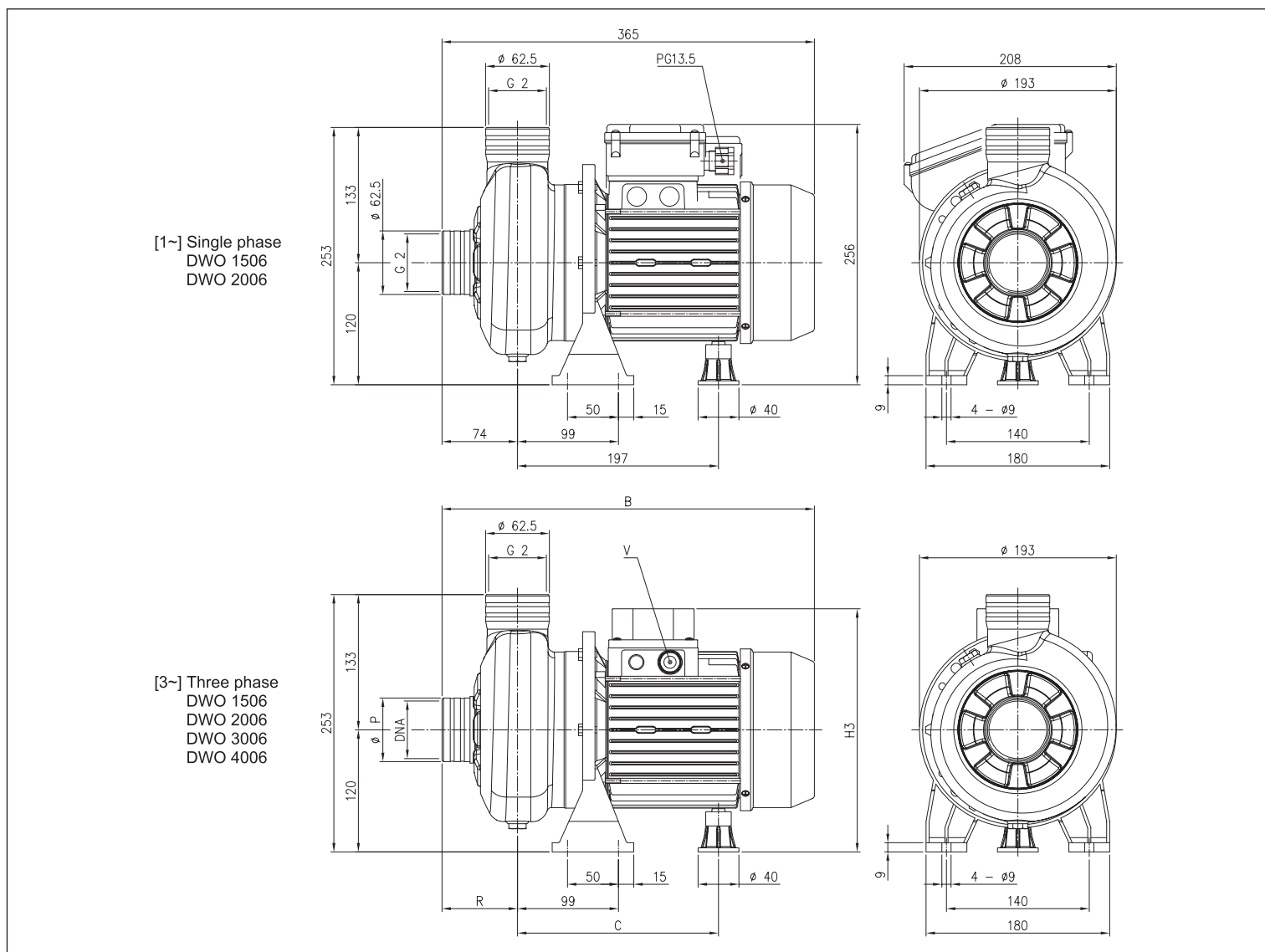
OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model		P ₂		Q=Flow rate								
Single phase 220-230V	Three phase 220/380V	[HP]	[kW]	l/min m ³ /h	100 6	200 12	300 18	400 24	600 33	800 42	950 57	1100 66
				H=Head [m]								
DWO 1506 M	DWO 1506	1,5	1,1	10,3	9,7	8,5	7,0	3,5	-	-	-	-
DWO 2006 M	DWO 2006	2	1,5	13,5	12,9	12,0	10,7	7,8	4,4	-	-	-
-	DWO 3006	3	2,2	15,5	15,0	14,2	13,1	10,5	7,5	4,9	-	-
-	DWO 4006	4	3	18,6	18,0	17,3	16,5	14,5	11,9	9,7	7,2	-

DIMENSIONS



DIMENSIONS TABLE

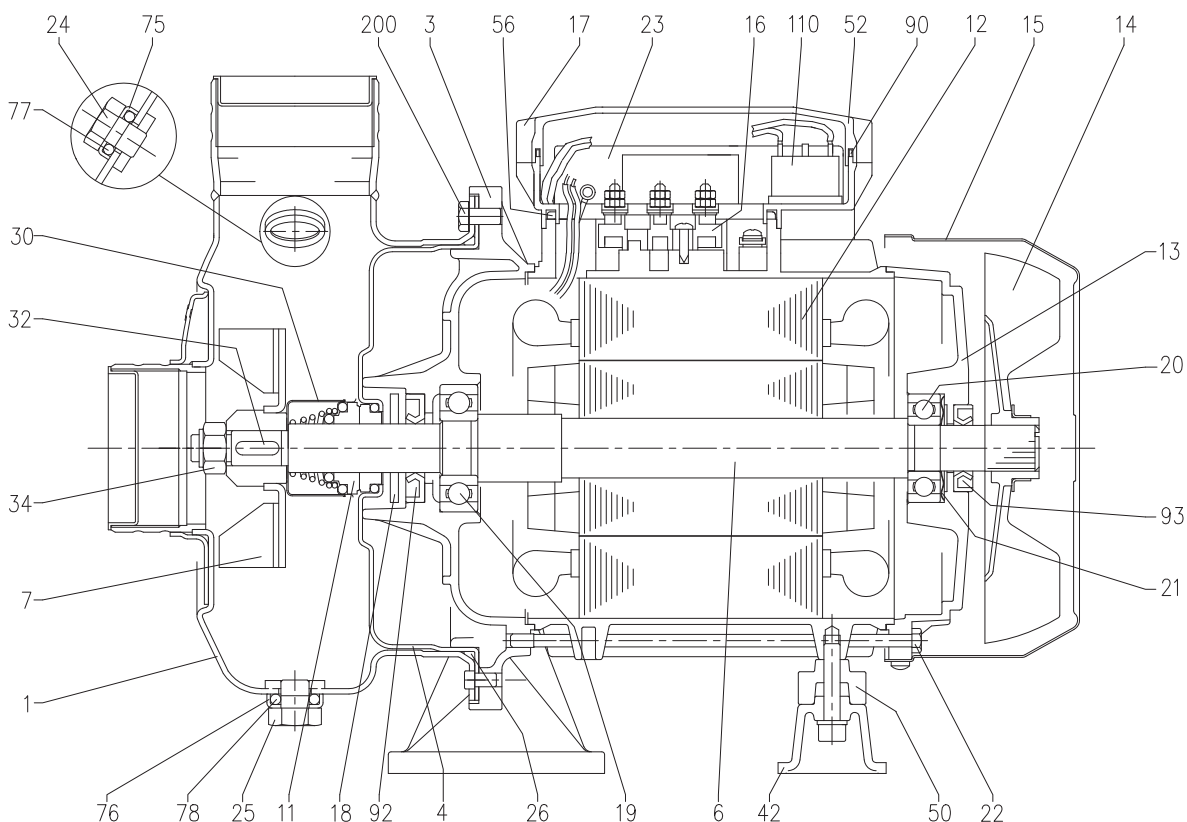
Model	Dimensions [mm]							Weight [kg]	
	B [1]	C [1]	H3 [1]	R [1]	P [1]	V [1]	DNA [1]	[2]	[1]
DWO 1506	365	197	239	74	62,5	PG11	G2	13,6	14,6
DWO 2006	378	197	239	74	62,5	PG11	G2	15,7	16,4
DWO 3006	416	230÷241	244	78	80	PG13,5	G2½	-	19,2
DWO 4006	455	230÷241	244	78	80	PG13,5	G2½	-	22,3

[1]= Three phase only
[2]= Single phase only

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	25	Drain plug	AISI 303
3	Motor support	Aluminium	26	O-Ring	NBR
4	Seal housing disc	EN 1.4301 (AISI 304)	30	Spray protector washer	EN 1.4301 (AISI 304)
6	Shaft	EN 1.4301 (AISI 304) Part in contact with the liquid	32	Key	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	34	Impeller nut	EN 1.4301 (AISI 304)
11	Mechanical seal	Carbon/Ceramic/NBR	42	Foot	Aluminium
12	Motor case	-	50	Foot spacer	-
13	Motor cover	Aluminium	52	Capacitor-holder box [2]	PP
14	Fan	PP	56	Terminal box cover gasket	NBR
15	Fan cover	Galvanised Fe P04	75	Washer	EN 1.4301 (AISI 304)
16	Terminal box	-	76	Washer	EN 1.4301 (AISI 304)
17	Terminal box cover [1]	Aluminium	77	O-Ring	NBR
18	Spray protector ring	NBR	78	O-Ring	NBR
19	Bearing (pump side)	-	90	Terminal box cover box gasket [2]	NBR
20	Bearing (motor side)	-	92	Sealing ring	-
21	Adjusting ring	Steel C70	93	Sealing ring	-
22	Tie-rod	Galvanised Fe 42	110	Motorprotector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	A2 UNI7323 stainless steel
24	Filler cap	AISI 303			

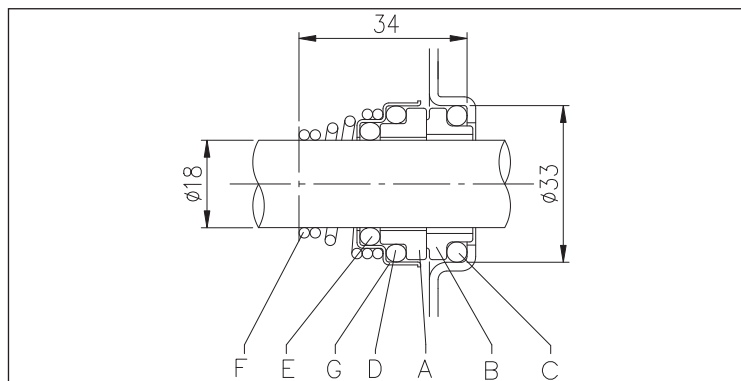
[1]= Three phase only

[2]= Single phase only

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Name	H version	Material HS version	HW version
Fixed Part	Carbon	SiC	Tungsten Carbide
Rotating Part	Ceramic	SiC	Tungsten Carbide
Elastomers	FPM	FPM	FPM
Spring	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 316

ELECTRIC DATA TABLE

Model		P ₂		Capacitor Single phase		P ₁		Absorbed Current [A]		
Single phase 220-230V	Three phase 220/380V	[HP]	[kW]	μF	V _c	Single phase [kW]	Three phase [kW]	Single phase 220-230V	Three phase 220V	Three phase 380V
DWO 1506 M	DWO 1506	1,5	1,1	35	450	1,5	2	7,2	5,7	3,3
DWO 2006 M	DWO 2006	2	1,5	35	450	2,06	2,9	9,8	8,1	4,7
-	DWO 3006	3	2,2	-	-	-	2,9	-	7,0	4,1
-	DWO 4006	4	3	-	-	-	3,9	-	10,5	6,1

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