



EBARA

DWC

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

60 Hz



CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

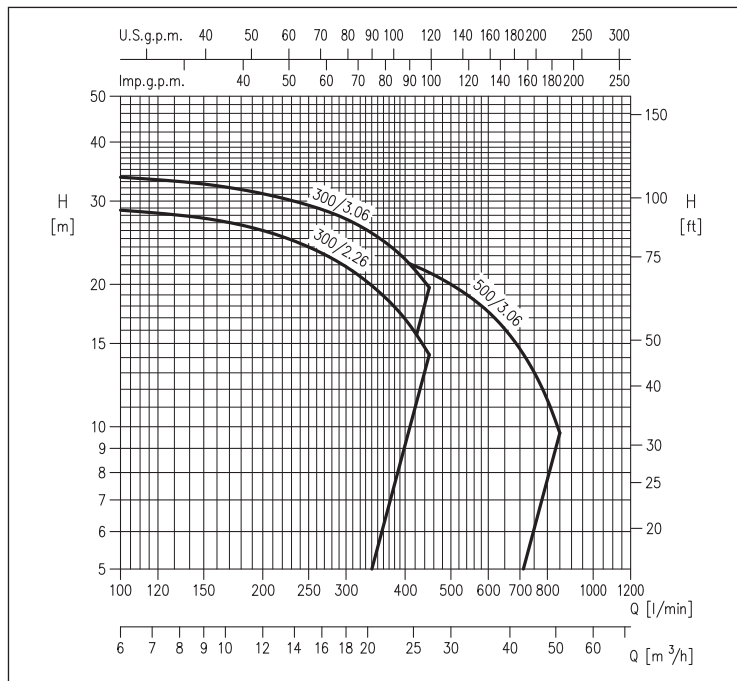


DWC-N

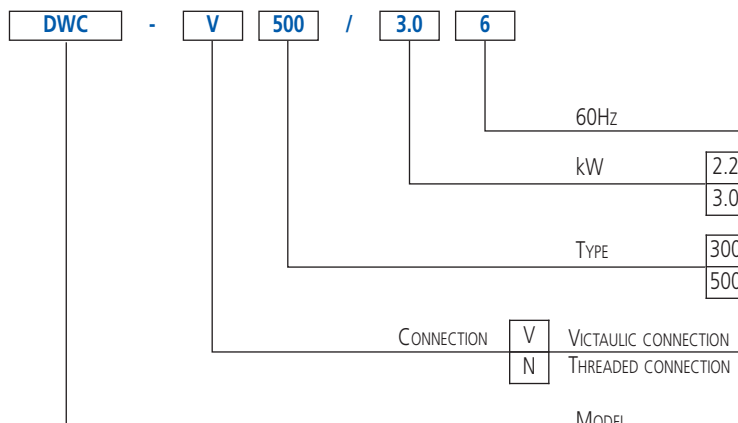


DWC-V

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



Closed impeller centrifugal electric pumps in AISI 304 stainless steel.

APPLICATIONS

- Cooling, air-conditioning and heating systems
- Chiller
- Washing systems
- Provisioning of civil and industrial water

TECHNICAL DETAILS

- Available in versions with threaded (DWC-N) and Victaulic connections (DWC-V)
- Insulation as per standard for the Victaulic version (DWC-V)

TECHNICAL DATA

- Maximum working pressure: 8 bar
- Temperature of the liquid: from -15°C to +90°C
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 220/380-460V -6%+10%, 60Hz three phase voltage
- Protection under user's responsibility
- G2 suction and discharge connection for DWC-N
- Ø2" (60.3 mm) suction and discharge connection for DWC-V

MATERIALS

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

ACCESSORIES (on request)

- DWC body insulation casing



CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

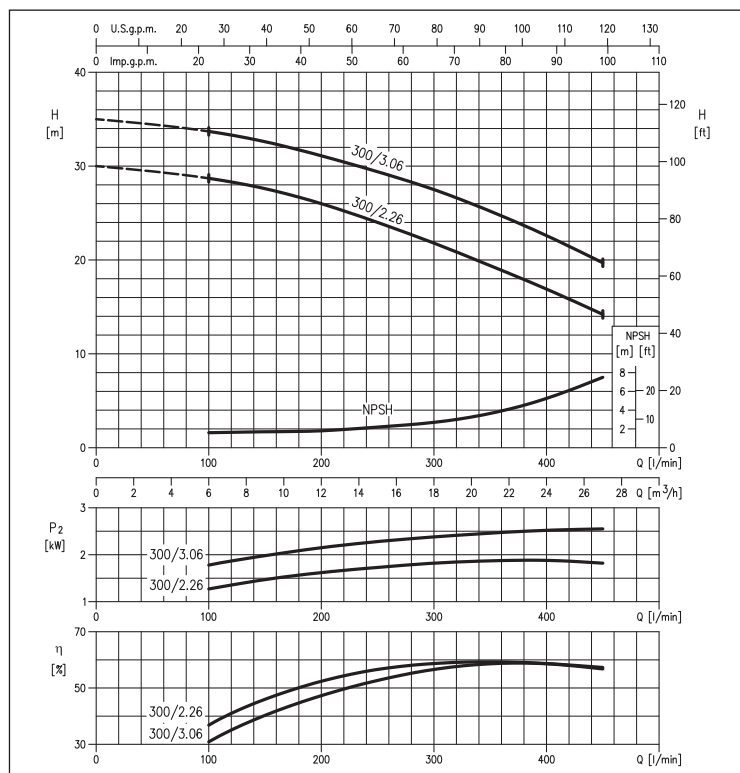
in AISI 304

PERFORMANCE TABLE

Model Three phase 220/380-460V	P ₂		Q=Flow rate															
	[HP]	[kW]	l/min m ³ /h	100 6	150 9	200 12	250 15	300 18	350 21	400 24	450 27	500 30	600 36	700 42	800 48	850 51	H=Head [m]	
DWC 300/2.26	3	2,2	28,7		27,6	26,0	24,0	21,8	19,4	16,9	14,2	-	-	-	-	-		
DWC 300/3.06	4	3	33,7		32,6	31,1	29,4	27,5	25,2	22,6	19,7	-	-	-	-	-		
DWC 500/3.06	4	3	-	-	25,8	25,1	24,3	23,3	22,3	21,2	20,0	17,5	14,6	11,4	9,7			

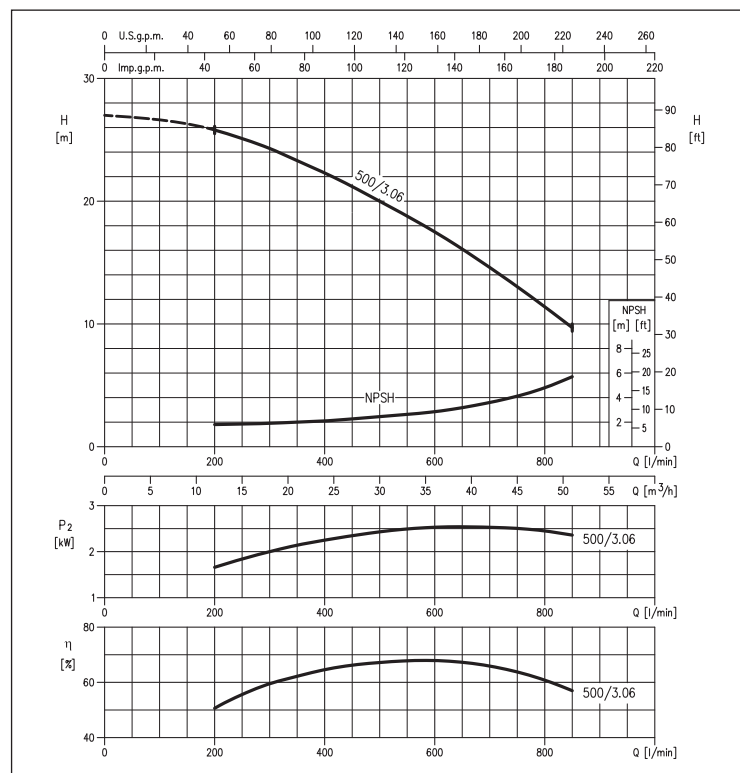
DWC 300 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

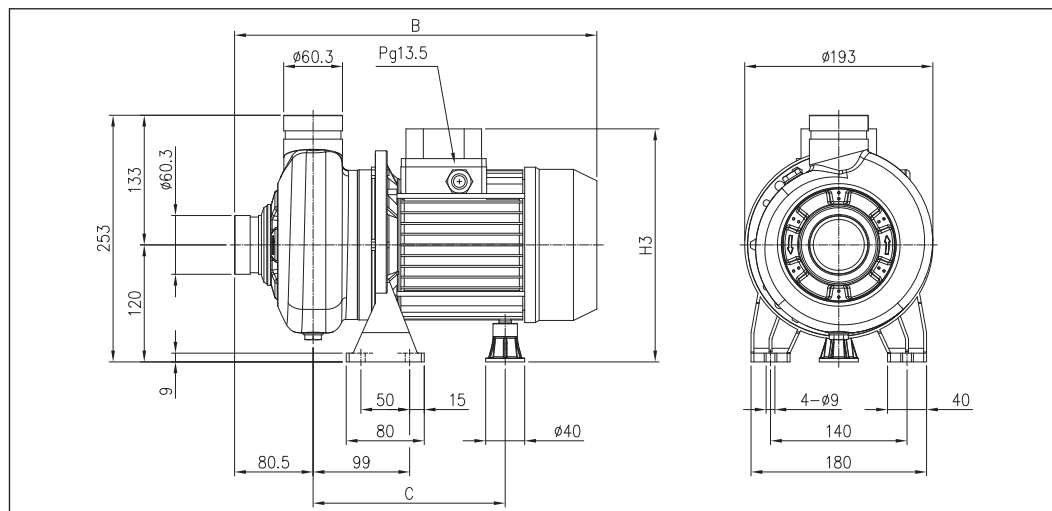


DWC 500 PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



DWC-V DIMENSIONS (VICTAULIC CONNECTION)



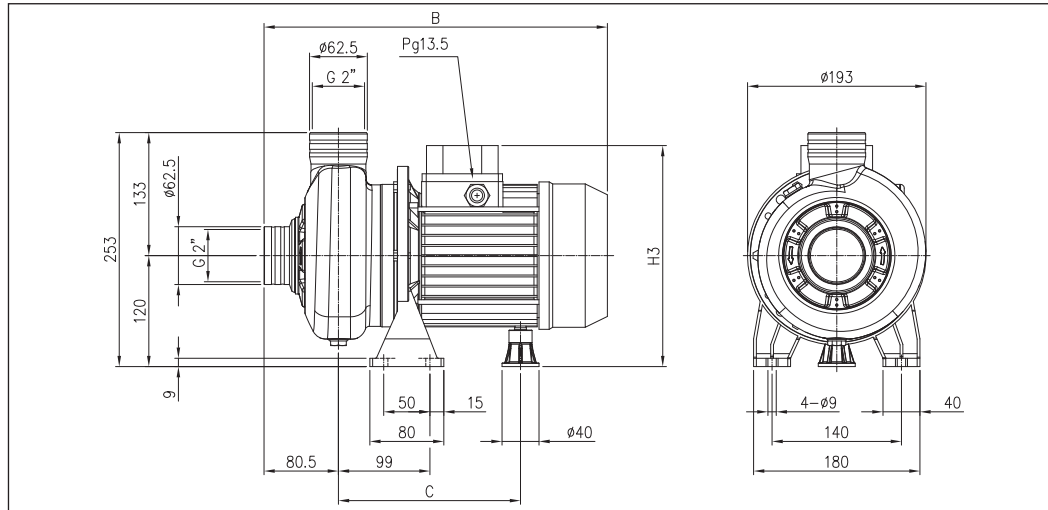
DIMENSIONAL TABLE

Model	Dimensions [mm]			Weight [kg]
	B	C	H3	
DWC-V 300/2.26	418	230÷241	244	19,7
DWC-V 300/3.06	457	230÷241	244	21,5
DWC-V 500/3.06	457	230÷241	244	22,3

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

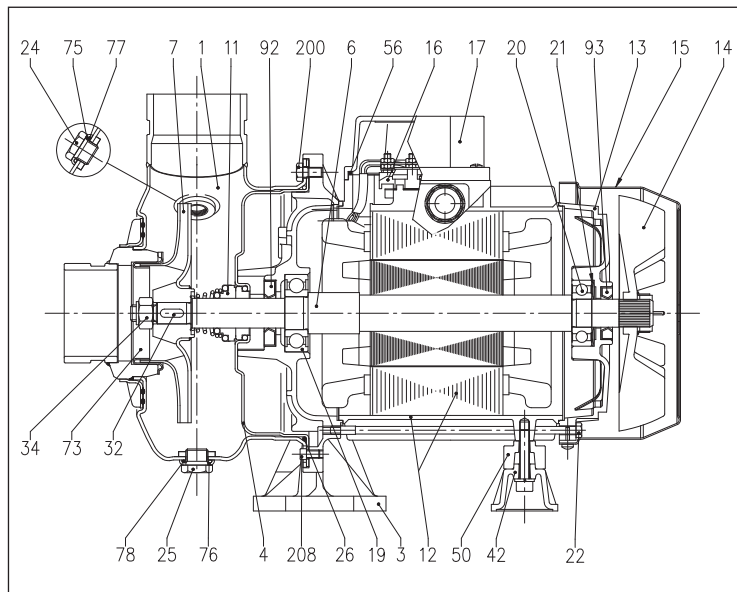
DWC-N DIMENSIONS (THREADED CONNECTION)



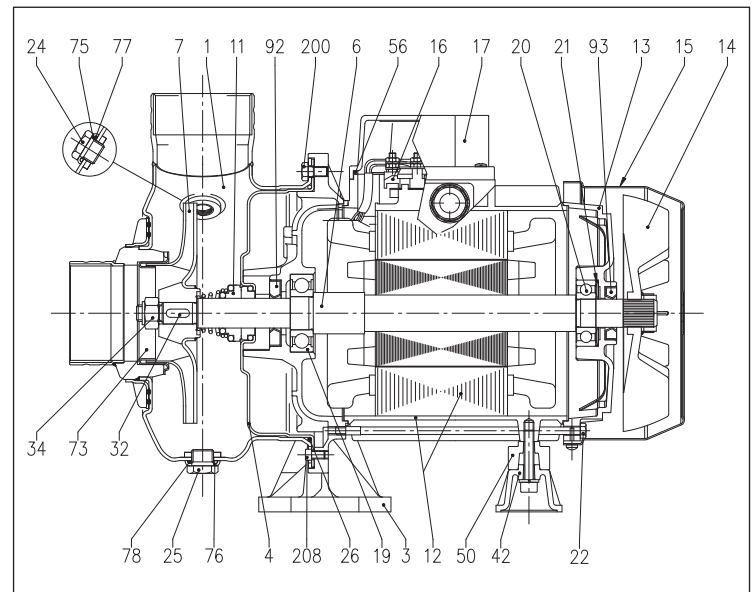
DIMENSIONAL TABLE

Model	Dimensions [mm]			Weight [kg]
	B	C	H3	
DWC-N 300/2.26	418	230÷241	244	19,7
DWC-N 300/3.06	457	230÷241	244	21,5
DWC-N 500/3.06	457	230÷241	244	22,3

DWC-V SECTIONAL VIEW (VICTAULIC CONNECTION)



DWC-N SECTIONAL VIEW (THREADED CONNECTION)



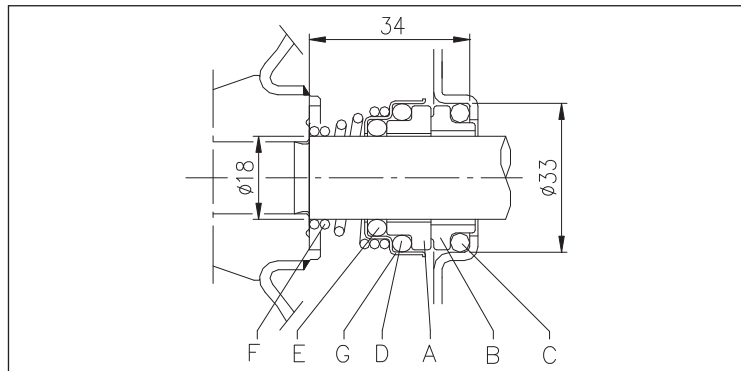
MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4301 (AISI 304)	025	Drain plug	EN 1.4301 (AISI 304)
003	Motor bracket	Aluminium	026	O-Ring	EPDM / FPM (H, HS and HW versions)
004	Casing cover	EN 1.4301 (AISI 304)	032	Key	EN 1.4401 (AISI 316)
006	Shaft	EN 1.4301 (AISI 304)	034	Impeller nut	EN 1.4301 (AISI 304)
007	Impeller	EN 1.4301 (AISI 304)	042	Foot	Aluminium / Galvanised Steel
011	Mechanical seal	Ceramic/Carbon/EPDM	050	Spacer	-
012	Motor frame with stator	-	056	Box gasket	NBR
013	Motor cover	Aluminium	073	Casing ring	EN 1.4301 (AISI 304)
014	Fan	PA6	075	Washer	EN 1.4301 (AISI 304)
015	Fan cover	Galvanised steel Fe P04	076	Washer	EN 1.4301 (AISI 304)
016	Terminal board	-	077	O-Ring	EPDM / FPM (H, HS and HW versions)
017	Terminal board cover	Aluminium	078	O-Ring	EPDM / FPM (H, HS and HW versions)
019	Bearing (pump side)	-	092	Lip seal	-
020	Bearing (motor side)	-	093	Lip seal	-
021	Adjusting ring	Steel C70	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
022	Tie-rod	Galvanised Fe 42	208	Screw	Stainless steel A2-70 class ISO 3506/1
024	Priming plug	EN 1.4301 (AISI 304)			

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL DWC standard



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	EPDM
D	O-Ring	EPDM
E	O-Ring	EPDM
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 304

ELECTRIC DATA TABLE

Model Three phase 220/380-460V	P ₂		P ₁ Three phase [kW]	Absorbed Current [A]		
	[HP]	[kW]		220V	Three phase 380V	460V
DWC 300/2.26	3	2,2	2,9	7,0	4,1	4,1
DWC 300/3.06	4	3	3,9	10,5	6,1	5,6
DWC 500/3.06	4	3	3,9	10,5	6,1	5,6

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