

Technical data

Pump name

150x125 CNHA 5 30

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	Horizontal Split Casing	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	150x125 CNHA 5 30	Frequency	Hz 50
10	Design	Horizontal Split Casing	Installation type	with base, motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 333
12	Speed rpm	1450		Designed mm 333
13	No. of Stage	1		Min. mm 274
14	Connection Suction side	JIS 16K	Flow	Operating m³/h
15	Connection Discharge side	JIS 16K		Max- m³/h 285
16	Max Working Pressure kPa	1600		Min- m³/h 0
17	Shut-off head kPa	395.23	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 27.0
19	Shaft power kW			- (Qmin.) m 40.4
20			Max. Shaft Power at max. impeller	kW 27.83
21	Required pump NPSH m		Efficiency	%

Materials

22	Casing	Cast iron		
23	Impeller	Bronze		
24	Shaft	316 Stainless steel		
25	Shaft sleeve	.		
26	Mechanical seal	.		
27	Ball bearing	.		

Motor

28	Manufacturer	TECO	Insulation class	F
29	Type	200LC_B3_30_3_400	Phases	3~
30	Specific design	TEFC / 50 Hz / Pole pairs 2	Frame size	200 LC
31	Rated power kW	30	Weight	kg 278
32	Number of poles	4	Electric voltage	V 400
33	Speed rpm	1470	Electric current	A 54
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

Pump name

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Requested data

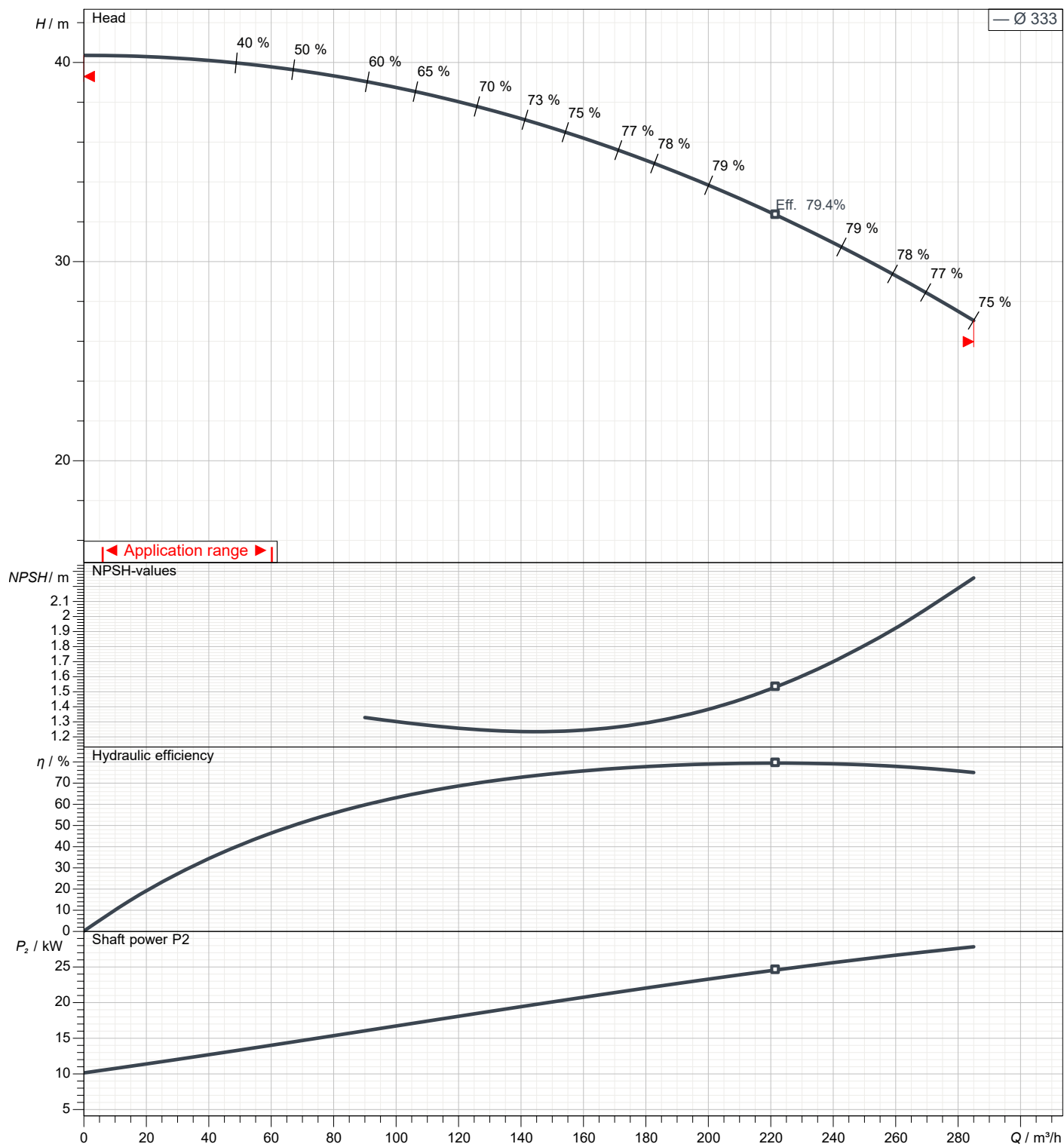
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		4
Impeller Diameter Designed	mm	333	Speed	rpm	1450

Test standard: ISO 9906:2012 - Grade3B

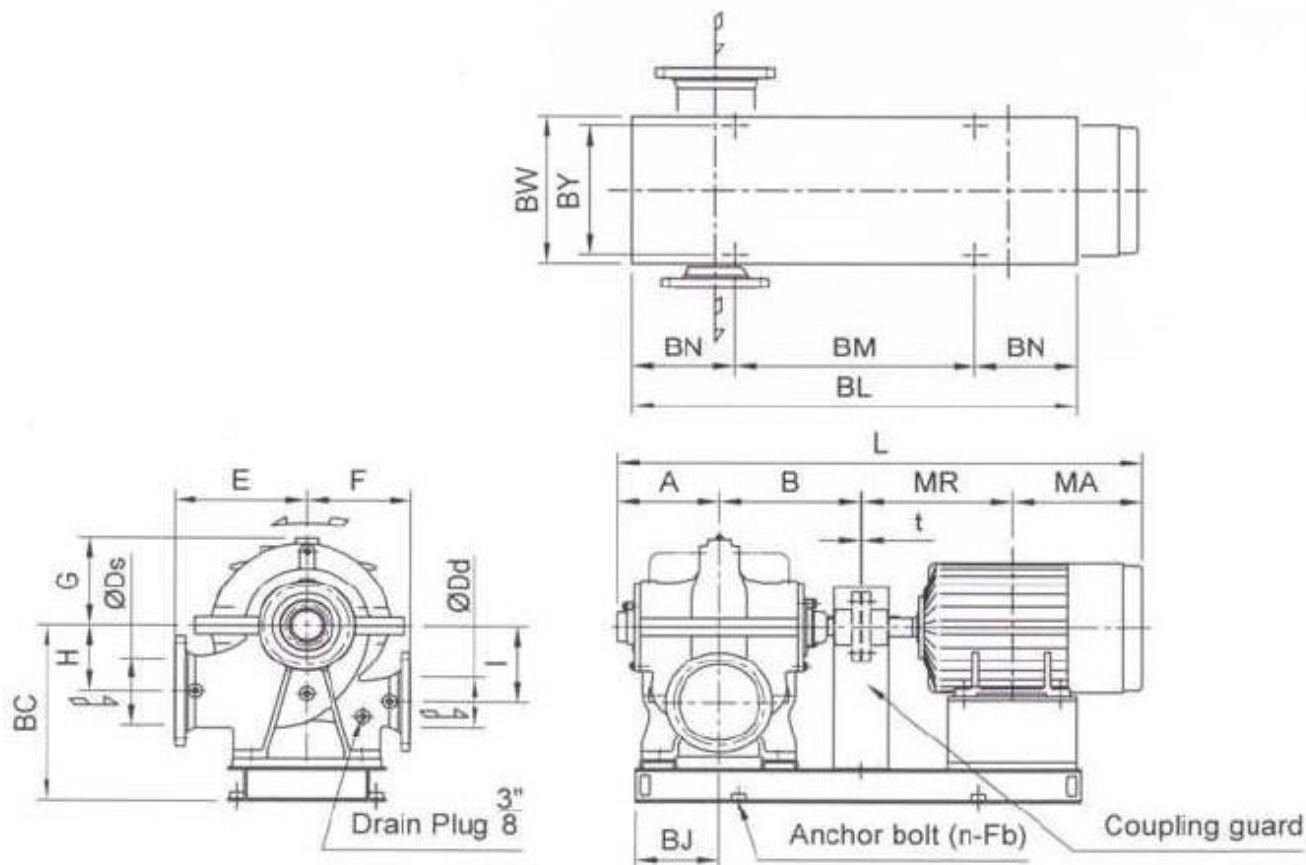
Water; 20°C; 998.3kg/m³; 1.005mm²/s



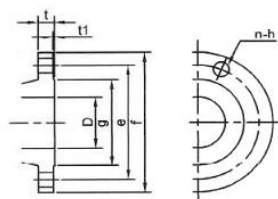
Dimensions

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Flange Dimension - Flange (JIS 16K RF)



Total weight : 643 kg

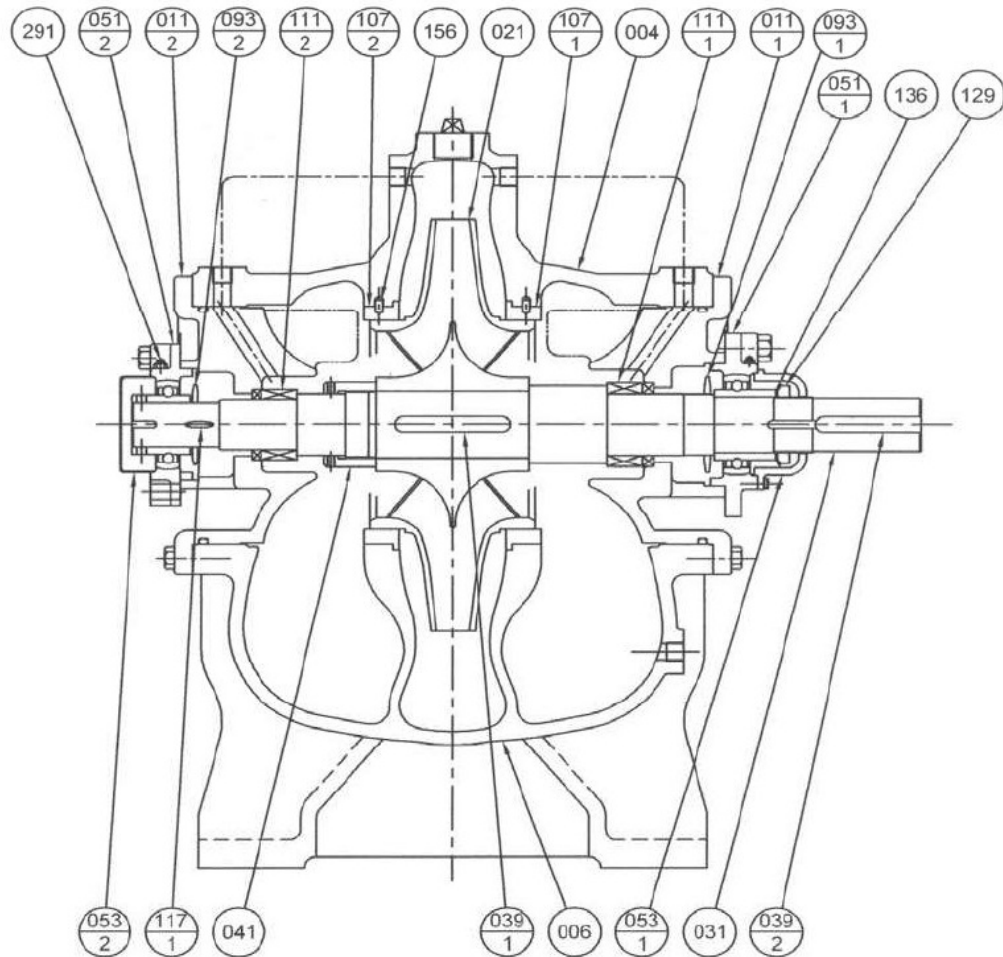
Pump dimensions				mm		Suction side		mm		Discharge side		mm	
A	262	H	190	D	150	D	125						
B	370	I	210	e	260	e	225						
BC	471	L	1406	f	305	f	270						
BJ	210	MA	374.5	g	230	g	195						
BL	1180	MR	395.5	h	25	h	23						
BM	750	n	4 (Num)	n Num	8 (Num)	n Num	8 (Num)						
BN	215	t	4	t	28	t	26						
BW	500			t1	2	t1	2						
BY	450												
Dd	125												
Ds	150												
E	350												
F	280												
Fb	M16												
G	243												

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Construction

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Mechanical Seal Type (Standard)

051-2	Bearing Unit	FC200	1	291	Grease Nipple	C3604BD-F	2
051-1	Bearing Unit			156	Lock Pin	SUS304	
041	Impeller Nut			BC6	136	Bearing Washer	SS400
039-2	Coupling Key	S50C		129	Bearing Nut	1	
039-1	Impeller Key	316 Stainless Steel		117-1	Gasket (Casing)		V#6500
031	Shaft			111-2	Mechanical Seal		-
021	Impeller	BC6		111-1	Mechanical Seal		-
011-2	Side Cover	FC250		107	Casing Wear Ring	BC6	2
011-1	Side Cover			093-2	Deflector (CCP Side)	Rubber	1
006	Casing Lower Half			093-1	Deflector (CP Side)		
004	Casing Upper Half			053-2	Bearing Cover	FC200	
			053-1	Bearing Cover			
No.	Part Name	Material	Qty	No.	Part Name	Material	Qty



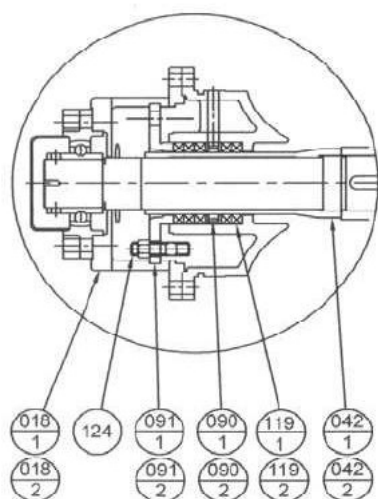
EBARA

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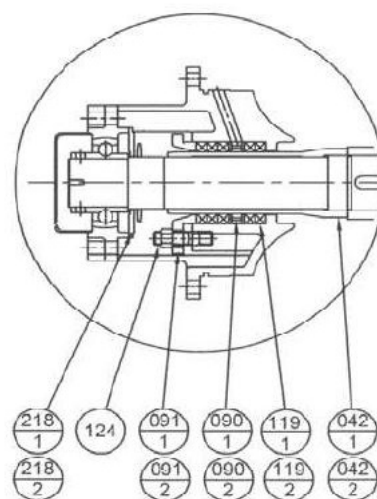
Construction

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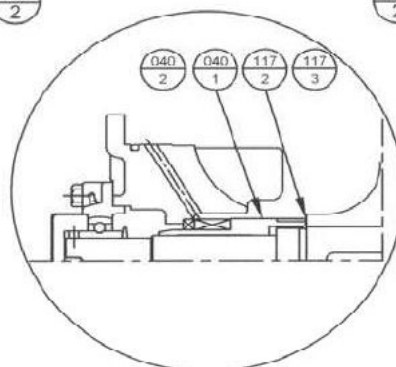
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Gland Packing
Type 1 (Option)



Gland Packing
Type 2 (Option)



Mechanical Seal with
Shaft Sleeve
(Option)

Gland Packing Type 2 (Option)

042-2	Shaft Sleeve (CCP Side)	BC6	1	119-2	Gland Packing (CCP Side)	Carbonised Fiber	5
042-1	Shaft Sleeve (CP Side)			119-1	Gland Packing (CP Side)	Carbonised Fiber	5
218-2	Bearing Cover Plate (CCP Side)	FC150	1	090-2	Lantern Ring (CCP Side)	BC6	1
218-1	Bearing Cover Plate (CP Side)			090-1	Lantern Ring (CP Side)		
124	Gland Bolt	C3604BD-F	4	091-2	Gland (CCP Side)		
				091-1	Gland (CP Side)		

Gland Packing Type 1 (Option)

042-2	Shaft Sleeve (CCP Side)	BC6	1	119-2	Gland Packing (CCP Side)	Carbonised Fiber	5
042-1	Shaft Sleeve (CP Side)			119-1	Gland Packing (CP Side)	Carbonised Fiber	5
018-2	Bearing Support (CCP Side)	FC200	1	090-2	Lantern Ring (CCP Side)	BC6	1
018-1	Bearing Support (CP Side)			090-1	Lantern Ring (CP Side)		
124	Gland Bolt	C3604BD-F	4	091-2	Gland (CCP Side)		
				091-1	Gland (CP Side)		

Mechanical Seal with Shaft Sleeve Type (Option)

040-2	Shaft Sleeve (CCP Side)	BC6	1	117-3	Sleeve Gasket (CCP Side)	V#6500	1
040-1	Shaft Sleeve (CP Side)	BC6		117-2	Sleeve Gasket (CP Side)	V#6500	
No.	Part Name	Material	Qty	No.	Part Name	Material	Qty



EBARA