Technical Data

Pump Name 3M 65-160/116 IE3

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	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	bar	0.0234
5	Geodetic head m		PH value		
6	Inlet pressure (pin) bar	0	Density	kg/m³	998.3
7	Available system NPSH		Solids	Weight %	0
8	Ambient temperature °C	20			

Pump

9	Pump Name	3M 65-160/116 IE3	Frequency		Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	146
12	Speed rpm	3480		Designed	mm	146
13	No. of Stage	1		Min.	mm	146
14	Connection Suction side	DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side	DIN 2532		Max-	m³/h	132
16	Max Working Pressure bar	10		Min-	m³/h	42
17	Shut-off head bar	4.21	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	20.0
19	Shaft power kW			- (Qmin.)	m	40.5
20			Max. Shaft Power at max. impeller		kW	10.90
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 316		
23	Casing	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Manufacturer		EPE Standard	Insulation class		F
29	Type		TEFC_3M 65-160/116_460_Three Phase	Phases		3~
30	Specific design		IE3 / 60 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	11	Weight	kg	
32	Number of poles		2	Electric voltage	V	460
33	Speed	rpm	3500	Electric current	A	18.5
34	Degree of protection		IP 55			
35						

Remarks

EBARA

Performance Curve

Pump Name 3M 65-160/116 IE3

Customer	Date 2024-06-20	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-20 10:03:09	E-mail

Requested data

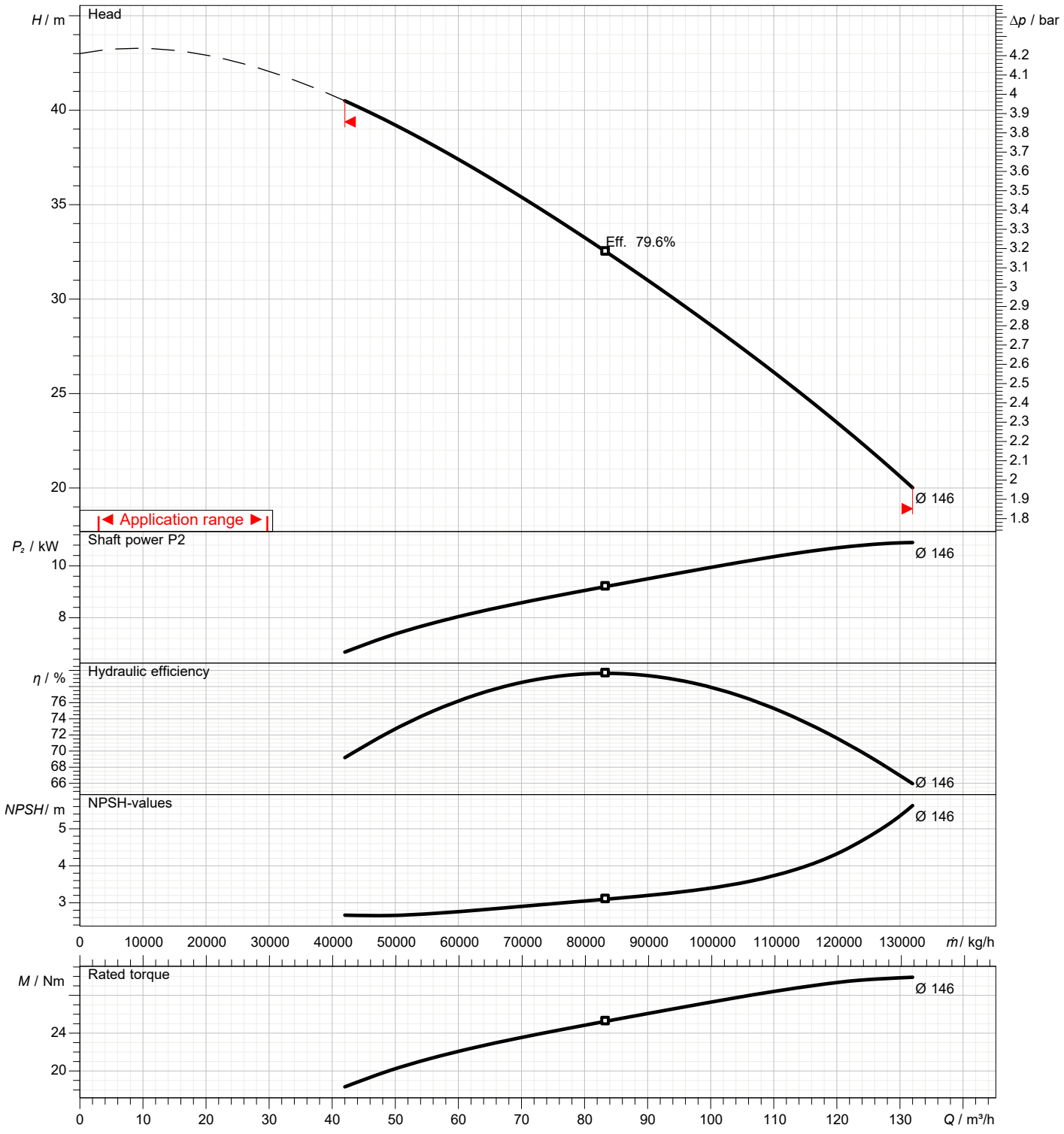
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	146	Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

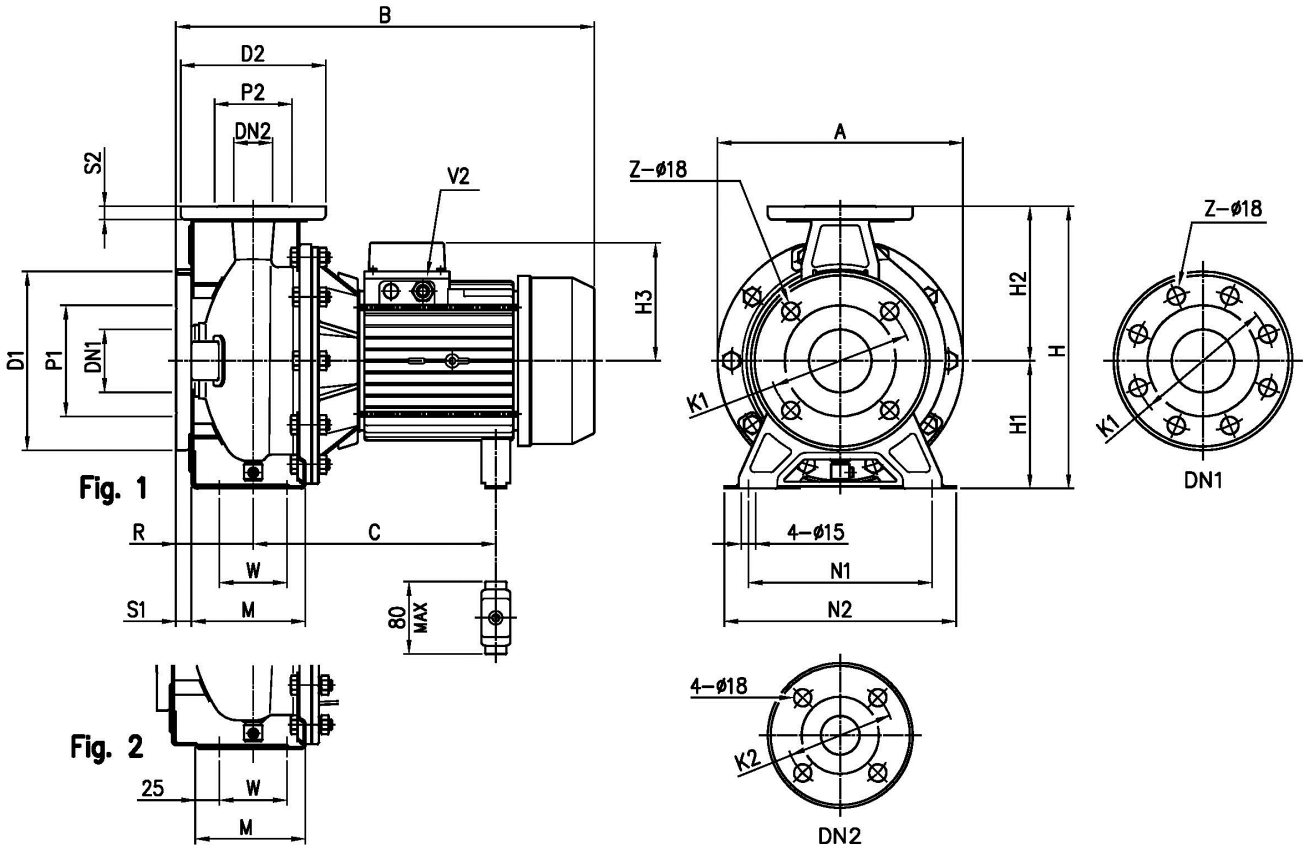


EBARA

Dimensions

Pump Name 3M 65-160/116 IE3

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail



Dimensions in	mm							
1	A	296	H2	200				
2	B	595	H3	178				
3	C	359	M	140				
4	Dia D1	200	N1	212				
5	Dia D2	185	N2	280				
6	Dia DN1	80	R	100				
7	Dia DN2	65	S1	18				
8	Dia K1	160	S2	16				
9	Dia K2	145	V2	PG 21				
10	Dia K2	145	W	95				
11	Dia P1	134	Weight P&M	69,8 kg				
12	Dia P2	115	Z	8				
13	Fig	2	Z option	4				
14	H	360						
15	H1	160						

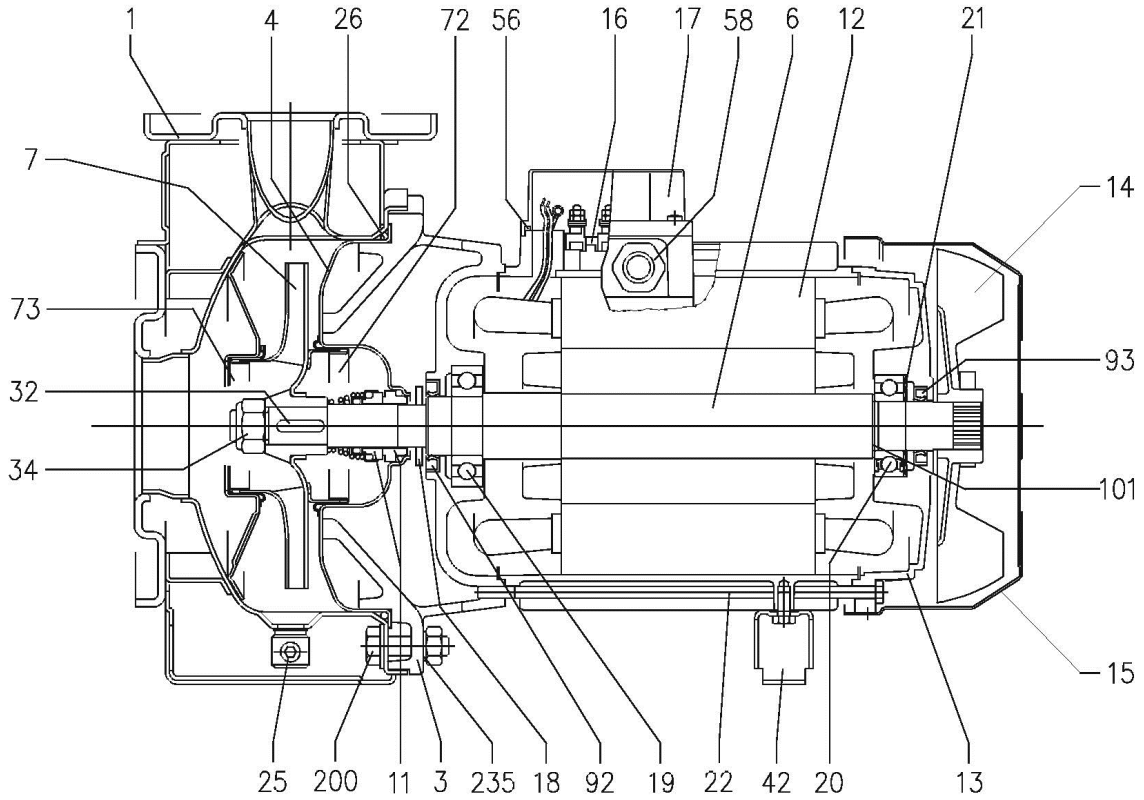
EBARA

(1/3)
Construction

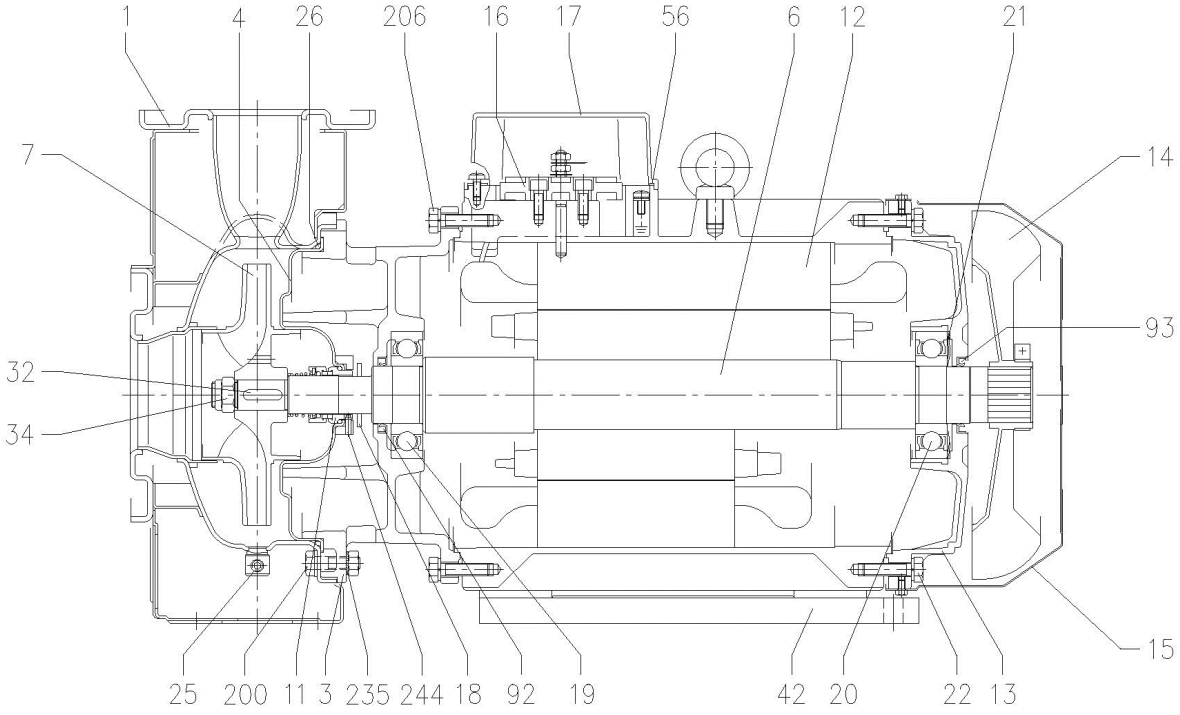
Pump Name 3M 65-160/116 IE3

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail

UP TO 11 kW



15 kW AND ABOVE



EBARA

(2/3)
Construction

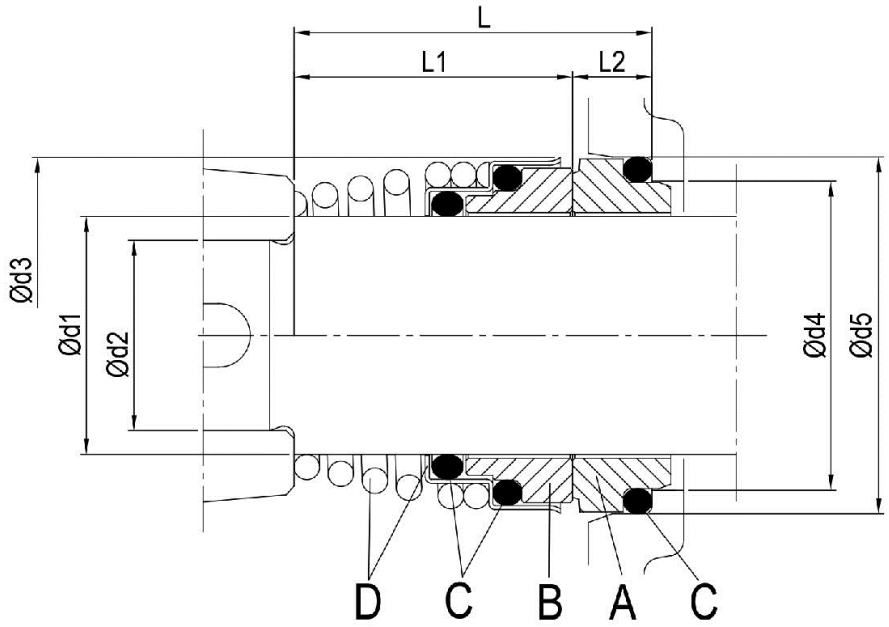
Pump Name 3M 65-160/116 IE3

Customer	Date	2024-06-20	Company	
Contact	Item no.		Issued by	
Phone	Project		Phone	
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail	

(3/3)
Construction

Pump Name 3M 65-160/116 IE3

Customer		Date	2024-06-20	Company	
Contact		Item no.		Issued by	
Phone		Project		Phone	
E-mail		Project ID	Proiect redenumit 2024-06-20 10:03:09	E-mail	



Pump type	Dimensions [mm]								Material Standard			
	d1	d2	d3	d4	d5	L	L1	L2	A Stationary seal ring	B Rotary seal ring	C O-ring	D Frame + spring
32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56-9.26-116	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4301 (AISI 304)