

Technical Data

Pump Name

MMD 80-160/15R QQPFF

Customer	Date	2024-06-16	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-16 15:45:44	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	MMD 80-160/15R QQPFF	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 150
12	Speed rpm	2900		Designed mm 150
13	No. of Stage	1		Min. mm 150
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h 180
16	Max Working Pressure bar	10		Min- m³/h 40
17	Shut-off head bar	2.89	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 18.5
19	Shaft power kW			- (Qmin.) m 29.1
20			Max. Shaft Power at max. impeller kW	12.24
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	EN-GJL-200		
23	Intermediate casing	EN-GJL-200		
24	Bottom casing	EN-GJL-200		
25	Shaft	Stainless steel		
26	Gasket	AF1600		
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_MMD 80-160/15R_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	132
31	Rated power kW	15	Weight kg	68
32	Number of poles	2	Electric voltage V	400
33	Speed rpm	2915	Electric current A	26.8
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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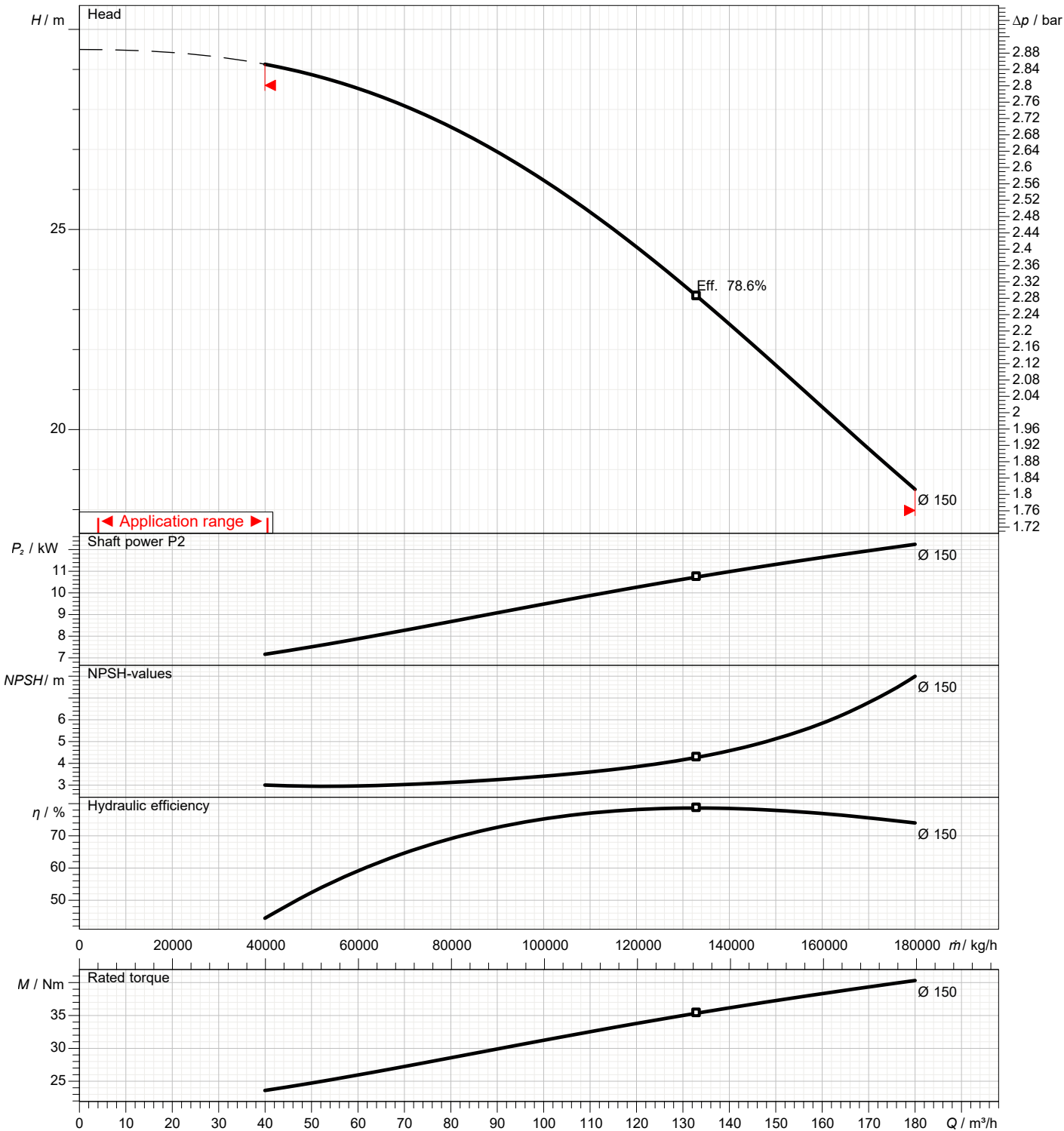
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	150	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

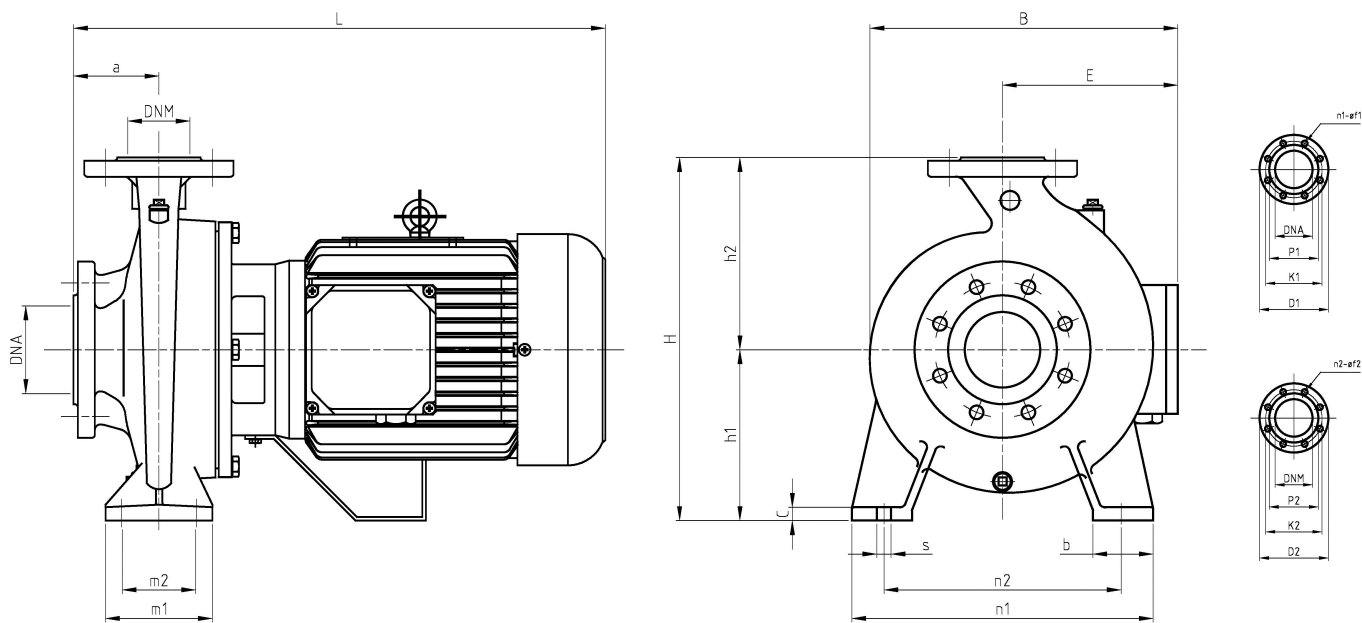
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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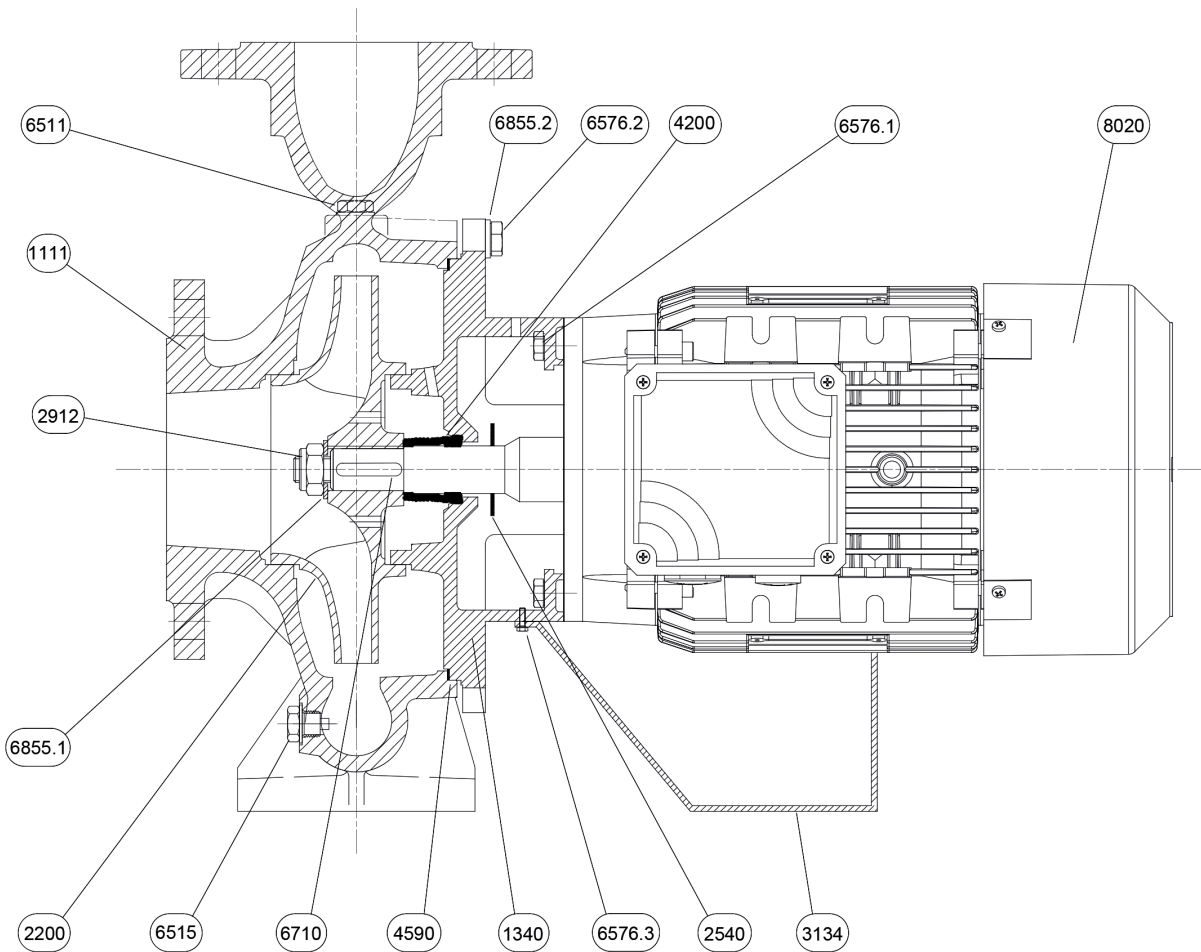
Dimensions in mm								
1	a	125	Dia P2	138				
2	b	65	E	194				
3	B	315	H	405				
4	C	14	h1	180				
5	Dia D1	220	h2	225				
6	Dia D2	200	L	730				
7	Dia DNa	100	m1	125				
8	Dia DNM	80	m2	95				
9	Dia f1	18	n1	320				
10	Dia f2	18	n2	250				
11	Dia K1	180	s	14				
12	Dia K2	160	Weight P&M	[90].5 kg				
13	Dia n1	8						
14	Dia n2	8						
15	Dia P1	158						

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Construction

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N°	PART NAME	MATERIAL	Q.TY
1111	Pump casing	EN-GJL-200	1
1340	Latern-Cover	EN-GJL-200	1
2200	Impeller	EN-GJL-200	1
2540	Baffle	NB 70	1
2912	Impeller nut	6.8-ZN	1
3134	Support foot	S235JR	1
4200	Mechanical seal	Sic/Sic/NBR/AISI 304	1
4590	Gasket	AF 1600	1
6511	Refil plug	EN GJMB-350-10	1
6515	Drain plug	EN GJMB-350-10	1
6576.1	Hexagonal head screw	8.8-ZN	4
6576.2	Hexagonal head screw	8.8-ZN	8
6576.3	Hexagonal head screw	8.8-ZN	1
6710	Key	C50	1
6855.1	Impeller washer	R40-ZN	1
6855.2	Washer	R40-ZN	8
8020	Motor		1

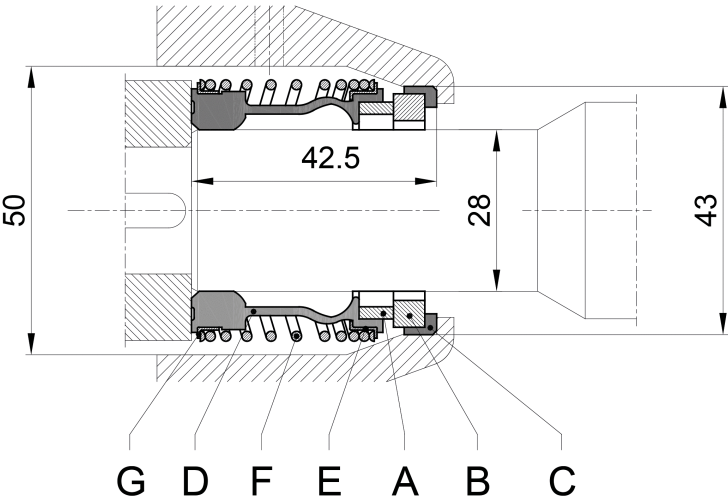
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Ref.	Name	Material
A	Rotary seal ring	Carbon
B	Stationary seal ring	Silicon Carbide
C	Gasket	EPDM
D	Bellows	EPDM
E	Spring plate	AISI 304
F	Spring	AISI 304
G	Spring plate	AISI 304