

## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron



Cast iron monobloc centrifugal electric pumps in compliance with EN 733.

### APPLICATIONS

- Moving clean water for civil, agricultural, industrial use, pressure boosting units, heating and air conditioning plants
- Farming irrigation
- Sport centres
- Washing plants

### TECHNICAL DETAILS

- Available in "H" version (Ceramic/Graphite/FPM)
- Available in "HS" version (SiC/SiC/FPM)
- Available in "HW" version (Widia/Widia/FPM)

### TECHNICAL DATA

- Maximum temperature of the liquid: 90°C (MD), 130°C (MMD)
- Maximum working pressure: 10 bar
- Self-ventilated 2 and 4 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230V ±10%, 50Hz single phase voltage three phase voltage 230/400V ±10% 50Hz up to 4 kW included, three phase voltage 400/690V ± 10% 5.5 kW and over
- 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

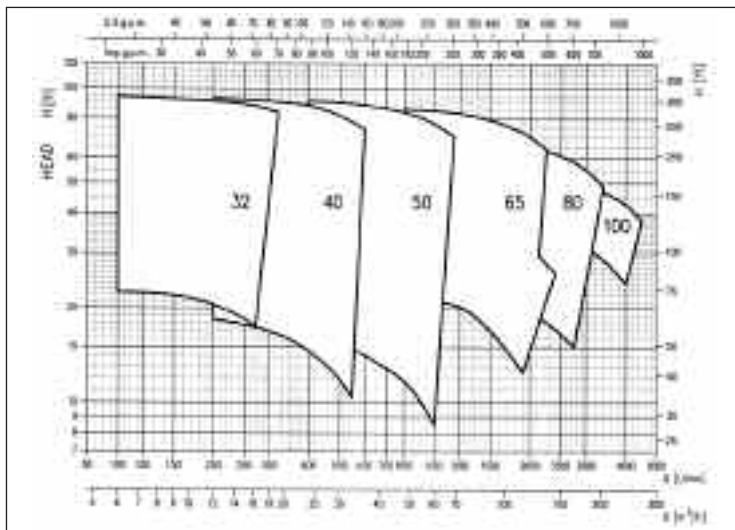
### MATERIALS

- Cast iron pump body and support
- Shaft in AISI 304 (MD), in AISI 406 (MMD)
- Mechanical seal in Carbon/Ceramic/NBR (MD), in SiC/SiC/EPDM (MMD)
- Impeller in cast iron and bronze B10

### ACCESSORIES (on request)

- Galvanised counter-flange

### 2 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD PERFORMANCE TABLE

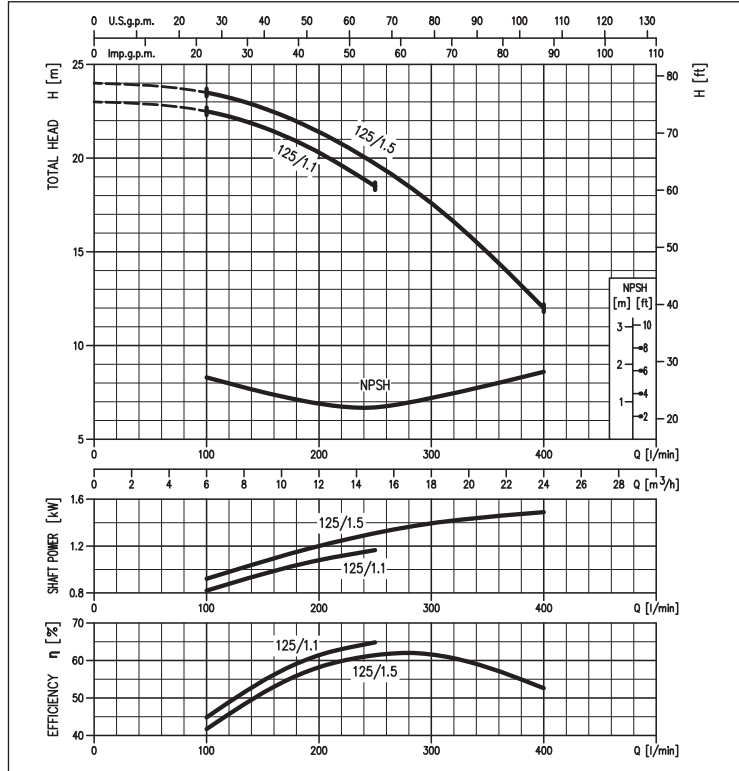
2 Poles

Model	P <sub>2</sub>		Q=Flow rate																						
	[HP]	[kW]	l/min m <sup>3</sup> /h	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400		
				6	12	15	17	19	24	33	36	40	48	60	66	69	72	84	114	120	132	138	144		
H=Head [m]																									
MD 32-125/1.1 (M)	1,5	1,1	22,5	20,5	18,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	1,5	23,5	21,5	19,7	18,5	16,6	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/1.5 (M)	1,5	1,5	27,0	24,0	22,0	20,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	34,5	32,0	30,0	28,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/3.0	4	3	41,0	36,5	33,0	30,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/4.0	5,5	4	50,5	47,0	44,5	42,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/5.5	7,5	5,5	57,0	54,0	51,0	49,0	45,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/7.5	10	7,5	70,0	67,0	64,0	62,0	58,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/9.2	12,5	9,2	83,0	80,0	78,0	76,0	73,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/11	15	11	94,0	91,0	89,0	87,0	84,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	1,5	19,5	18,4	17,7	17,2	16,5	14,6	10,3	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	25,0	23,5	23,0	22,5	22,0	20,5	16,9	15,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/3.0	4	3	30,5	29,0	28,0	27,5	26,5	25,0	21,0	19,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/4.0	5,5	4	38,0	36,5	36,0	35,5	35,0	33,0	29,5	28,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/5.5	7,5	5,5	48,0	47,0	46,0	45,5	44,5	42,5	37,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/7.5	10	7,5	57,5	56,5	55,5	55,0	54,5	52,5	47,5	45,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/11	15	11	-	73,0	72,0	71,5	70,0	66,5	58,5	55,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/13	17,5	13	-	84,0	83,5	82,5	81,5	78,0	69,0	65,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/15	20	15	-	93,0	92,0	91,5	90,5	88,0	78,0	74,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	-	-	-	-	-	16,0	14,8	14,3	13,5	11,7	8,5	-	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/3.0	4	3	-	-	-	-	-	19,5	18,6	18,2	17,6	16,1	13,0	-	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/4.0	5,5	4	-	-	-	-	-	24,0	23,0	23,0	22,0	21,0	17,8	16,0	-	-	-	-	-	-	-	-	-	-	-
MD 50-160/5.5	7,5	5,5	-	-	-	-	-	32,5	31,0	30,5	30,0	28,0	24,5	22,5	-	-	-	-	-	-	-	-	-	-	-
MD 50-160/7.5	10	7,5	-	-	-	-	-	38,0	37,0	36,5	35,5	34,0	31,0	29,0	28,0	27,0	-	-	-	-	-	-	-	-	-
MD 50-200/9.2	12,5	9,2	-	-	-	-	-	48,0	46,0	45,0	44,0	41,0	36,0	33,0	-	-	-	-	-	-	-	-	-	-	-
MD 50-200/11	15	11	-	-	-	-	-	54,5	53,0	52,0	51,0	48,5	43,5	40,5	39,0	37,0	-	-	-	-	-	-	-	-	-
MD 50-250/15	20	15	-	-	-	-	-	69,0	67,0	66,0	64,0	60,5	52,5	47,0	-	-	-	-	-	-	-	-	-	-	-
MD 50-250/18.5	25	18,5	-	-	-	-	-	80,0	78,5	77,5	76,0	72,5	65,0	60,0	57,0	-	-	-	-	-	-	-	-	-	-
MD 50-250/22	30	22	-	-	-	-	-	91,0	89,5	88,5	87,0	84,0	77,0	72,5	70,0	-	-	-	-	-	-	-	-	-	-
MD 65-125/5.5	7,5	5,5	-	-	-	-	-	-	-	23,2	23,0	22,5	21,5	20,5	20,5	20,0	18,2	12,5	-	-	-	-	-	-	-
MD 65-125/7.5	10	7,5	-	-	-	-	-	-	-	26,5	26,0	25,5	24,5	24,0	23,5	23,0	21,5	16,3	15,0	-	-	-	-	-	-
MD 65-160/11	15	11	-	-	-	-	-	-	-	-	-	34,0	33,5	33,0	32,5	32,0	32,0	30,5	26,5	25,5	23,0	22,0	-	-	-
MD 65-160/15	20	15	-	-	-	-	-	-	-	-	-	-	38,0	37,5	37,0	36,5	36,5	35,0	31,0	30,5	28,5	27,0	26,0	-	-
MD 65-200/18.5	25	18,5	-	-	-	-	-	-	-	-	-	-	53,5	52,5	51,5	51,0	50,5	48,5	42,0	40,5	37,0	-	-	-	-
MD 65-200/22	30	22	-	-	-	-	-	-	-	-	-	-	59,5	58,5	58,0	57,5	57,0	55,5	50,0	49,0	46,0	-	-	-	-

## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733 in cast iron

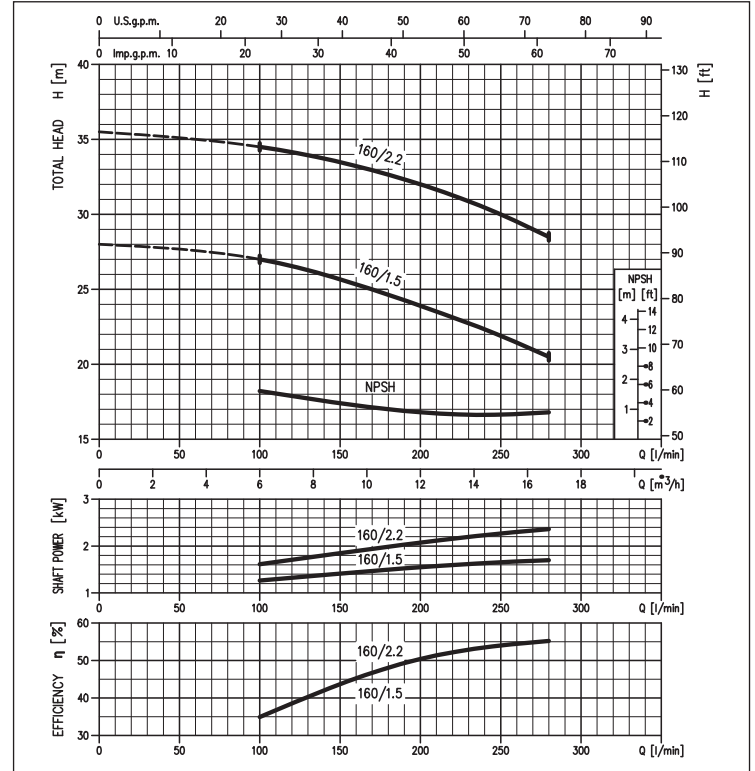
**MD 32-125 range PERFORMANCE CURVES**  
(according to ISO 9906 Attachment A)

2 Poles



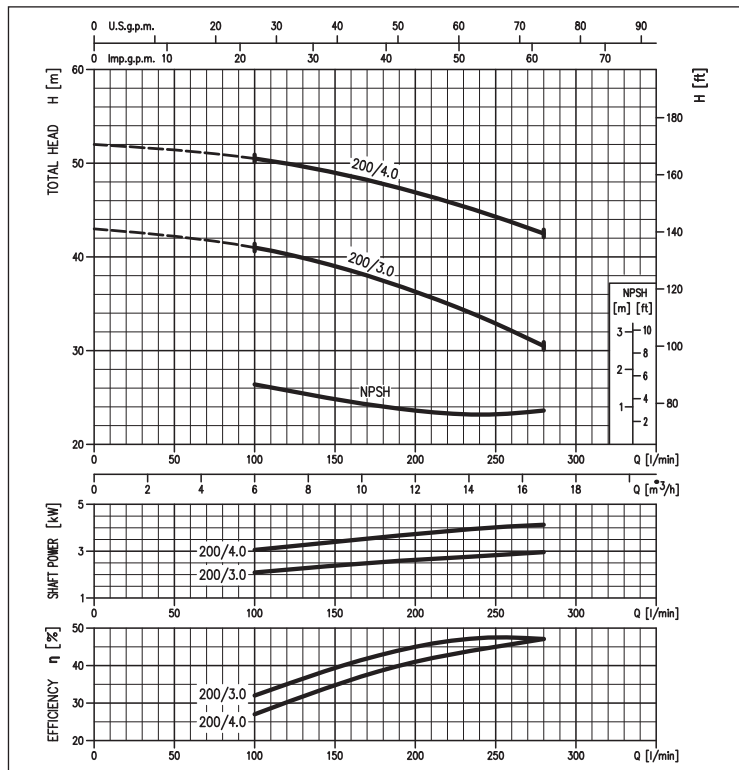
**MD 32-160 range PERFORMANCE CURVES**  
(according to ISO 9906 Attachment A)

2 Poles



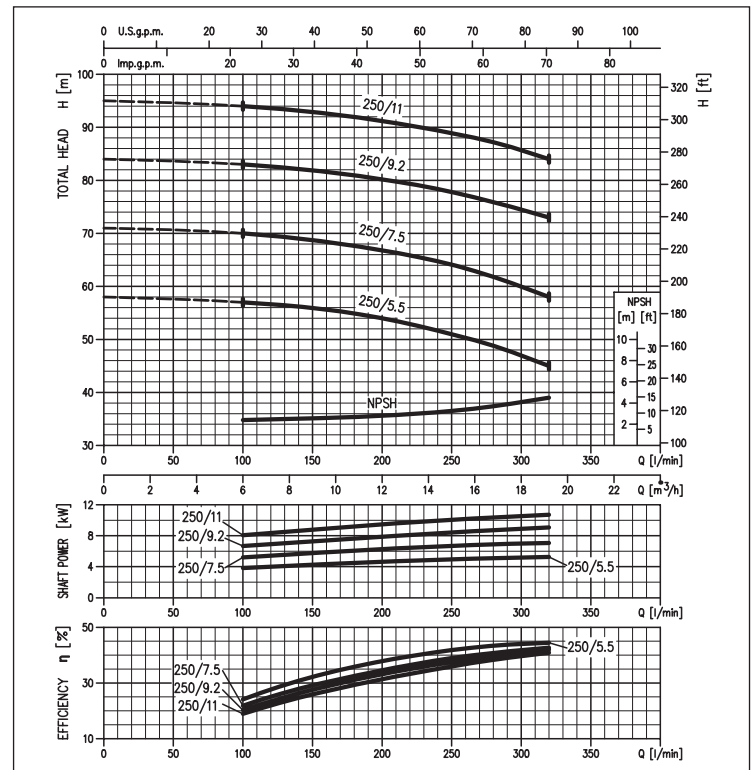
**MD 32-200 range PERFORMANCE CURVES**  
(according to ISO 9906 Attachment A)

2 Poles



**MD 32-250 range PERFORMANCE CURVES**  
(according to ISO 9906 Attachment A)

2 Poles

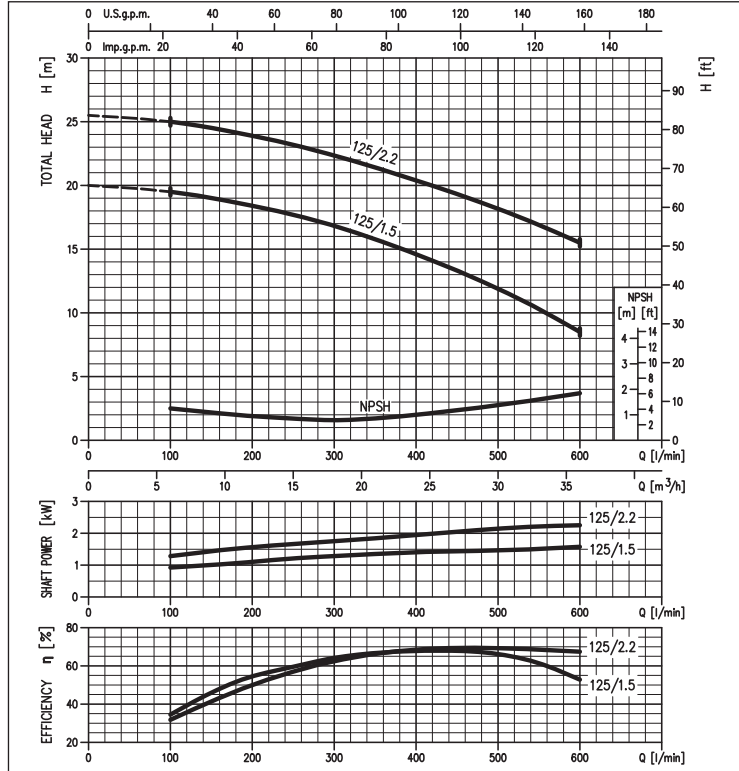


## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733 in cast iron

### MD 40-125 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

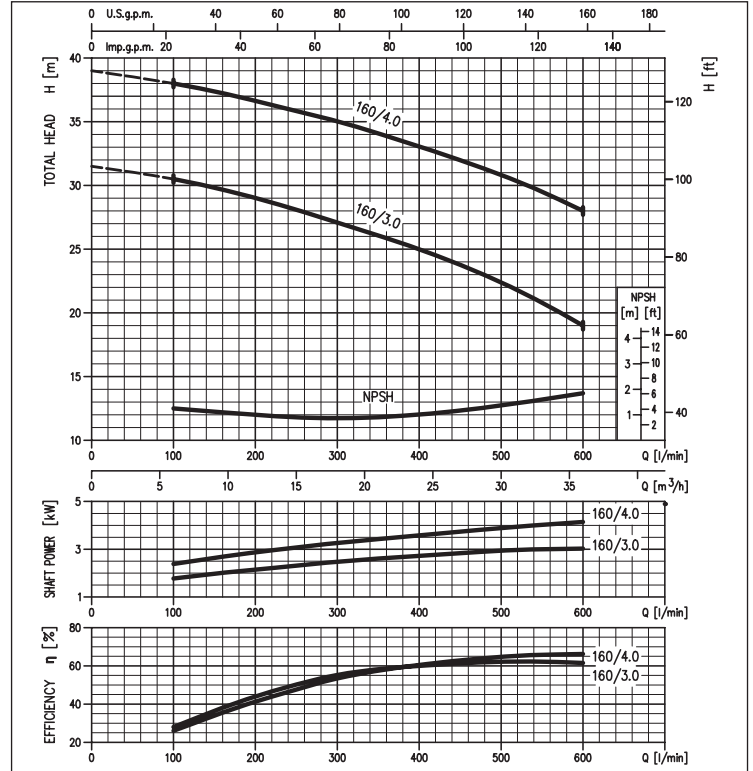
2 Poles



### MD 40-160 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

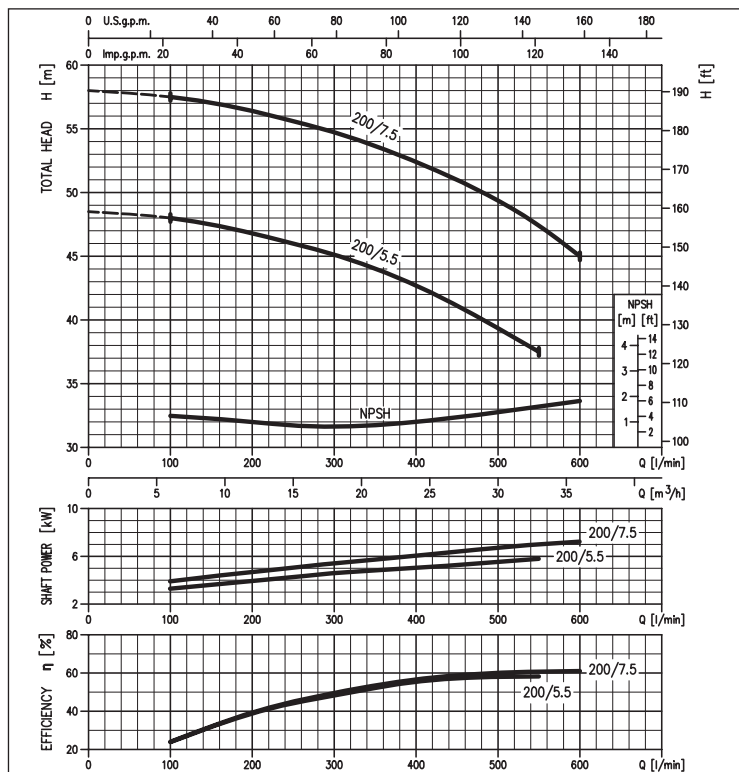
2 Poles



### MD 40-200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

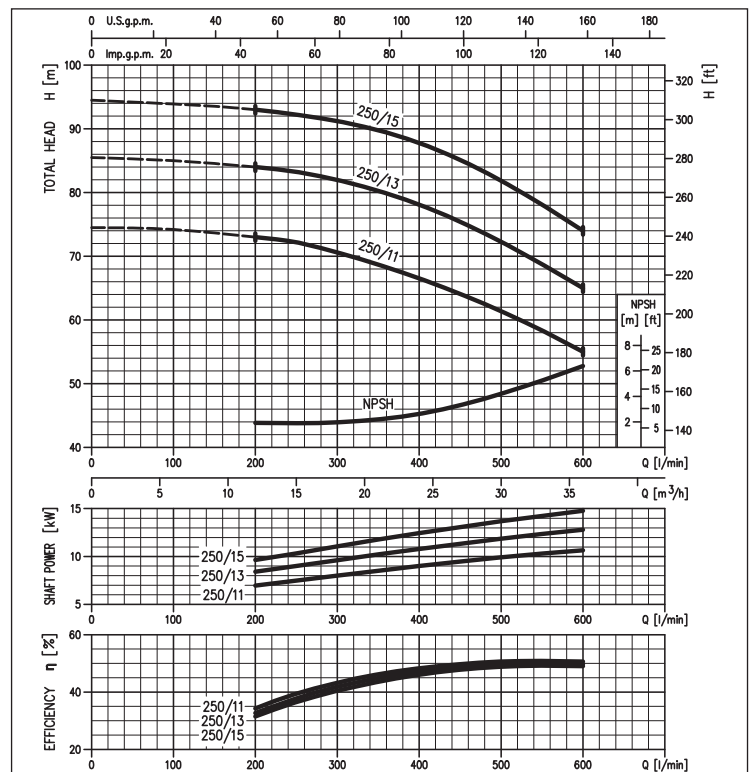
2 Poles



### MD 40-250 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

2 Poles

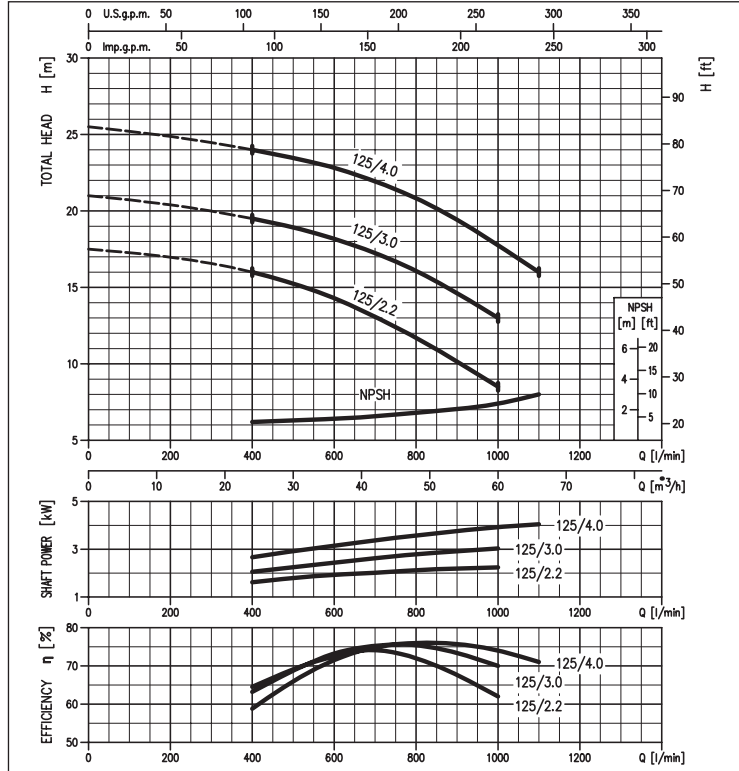


## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733 in cast iron

### MD 50-125 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

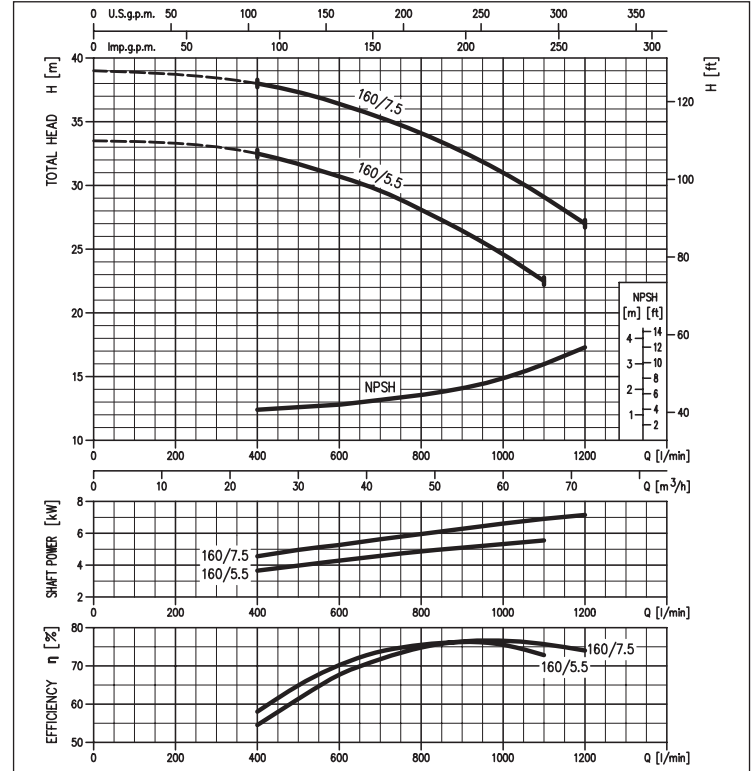
2 Poles



### MD 50-160 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

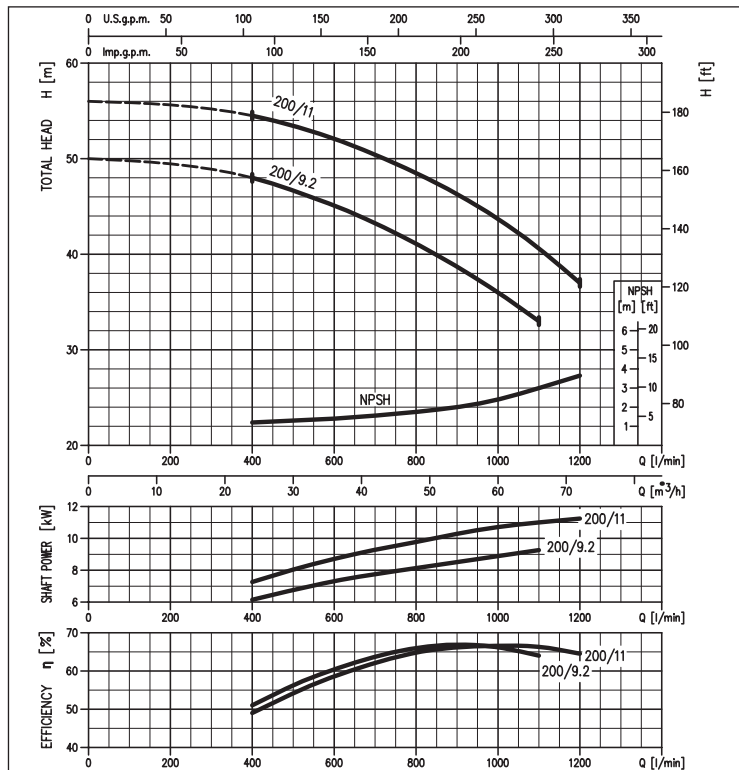
2 Poles



### MD 50-200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

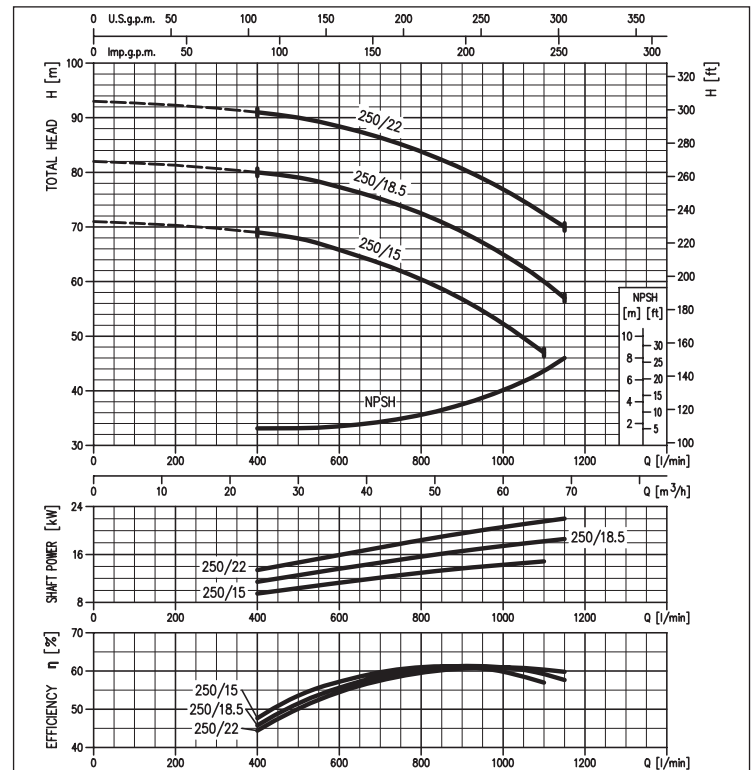
2 Poles



### MD 50-250 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

2 Poles



## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733 in cast iron

### MD 65-125 range PERFORMANCE CURVES

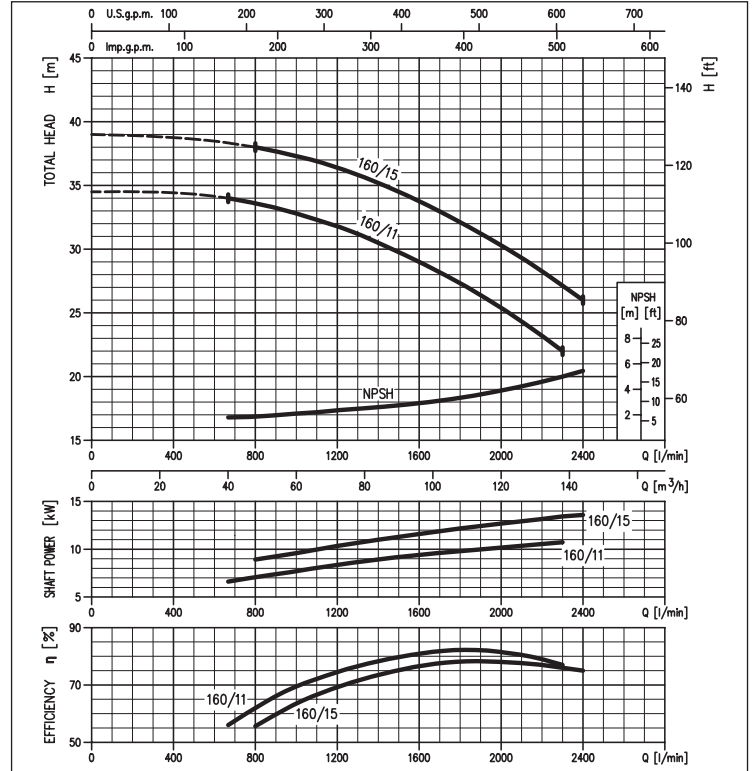
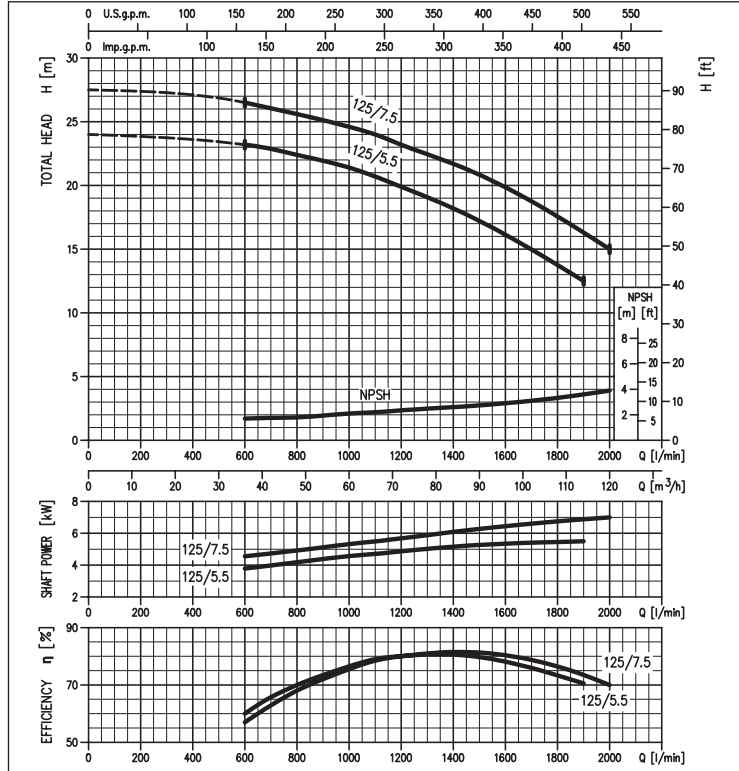
(according to ISO 9906 Attachment A)

2 Poles

### MD 65-160 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

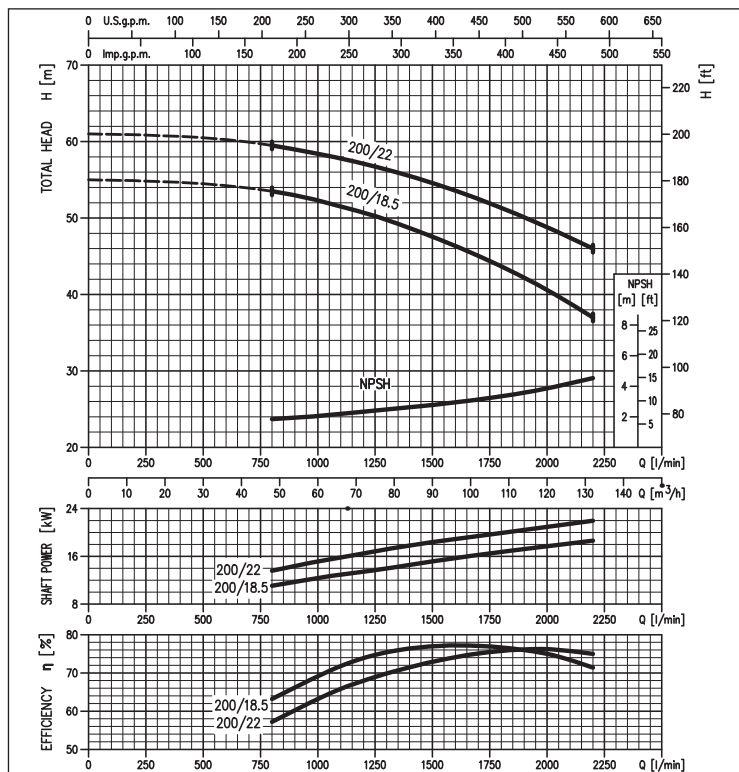
2 Poles



### MD 65-200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

2 Poles

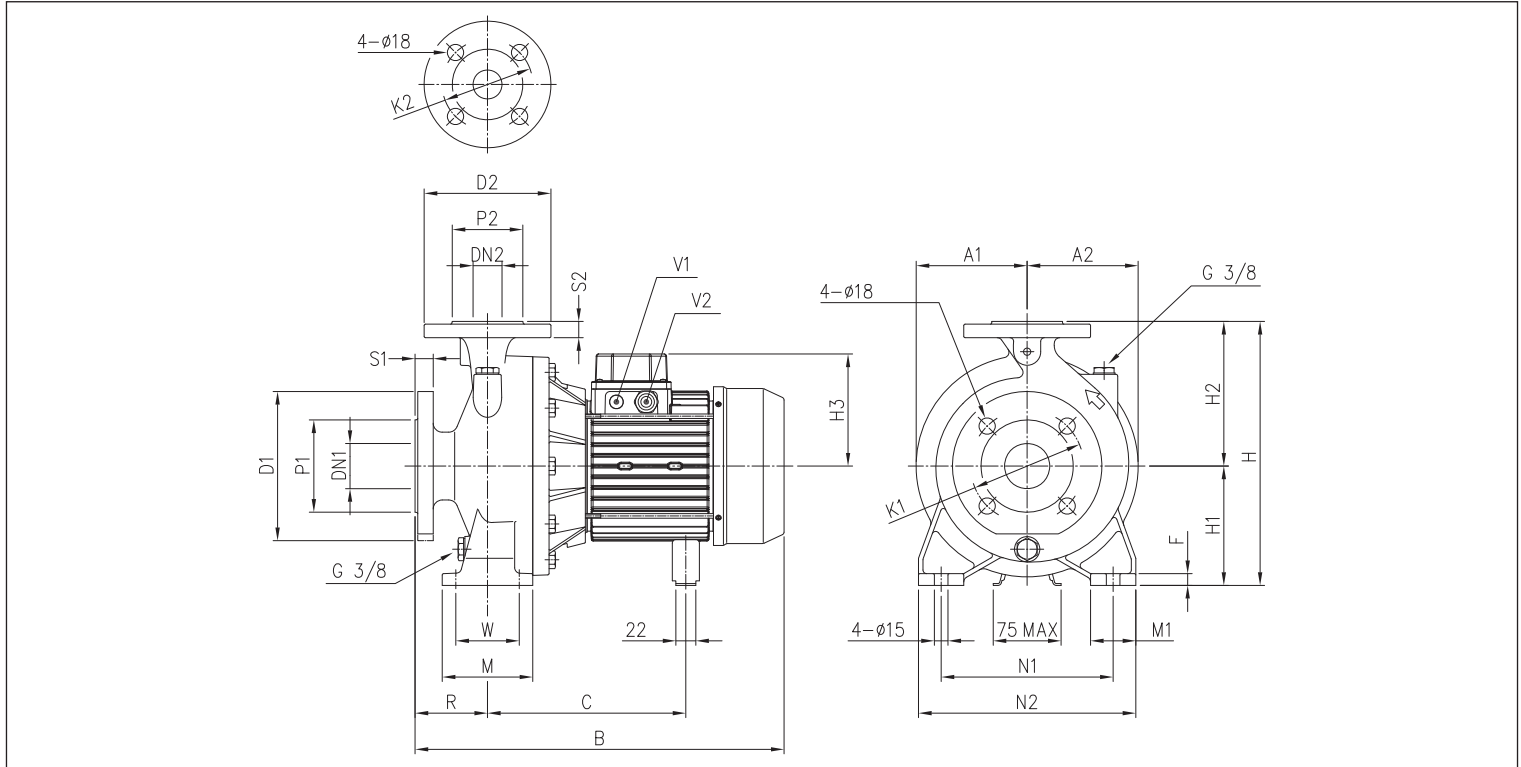


## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

### MD DIMENSIONS

2 Poles



### DIMENSIONS TABLE

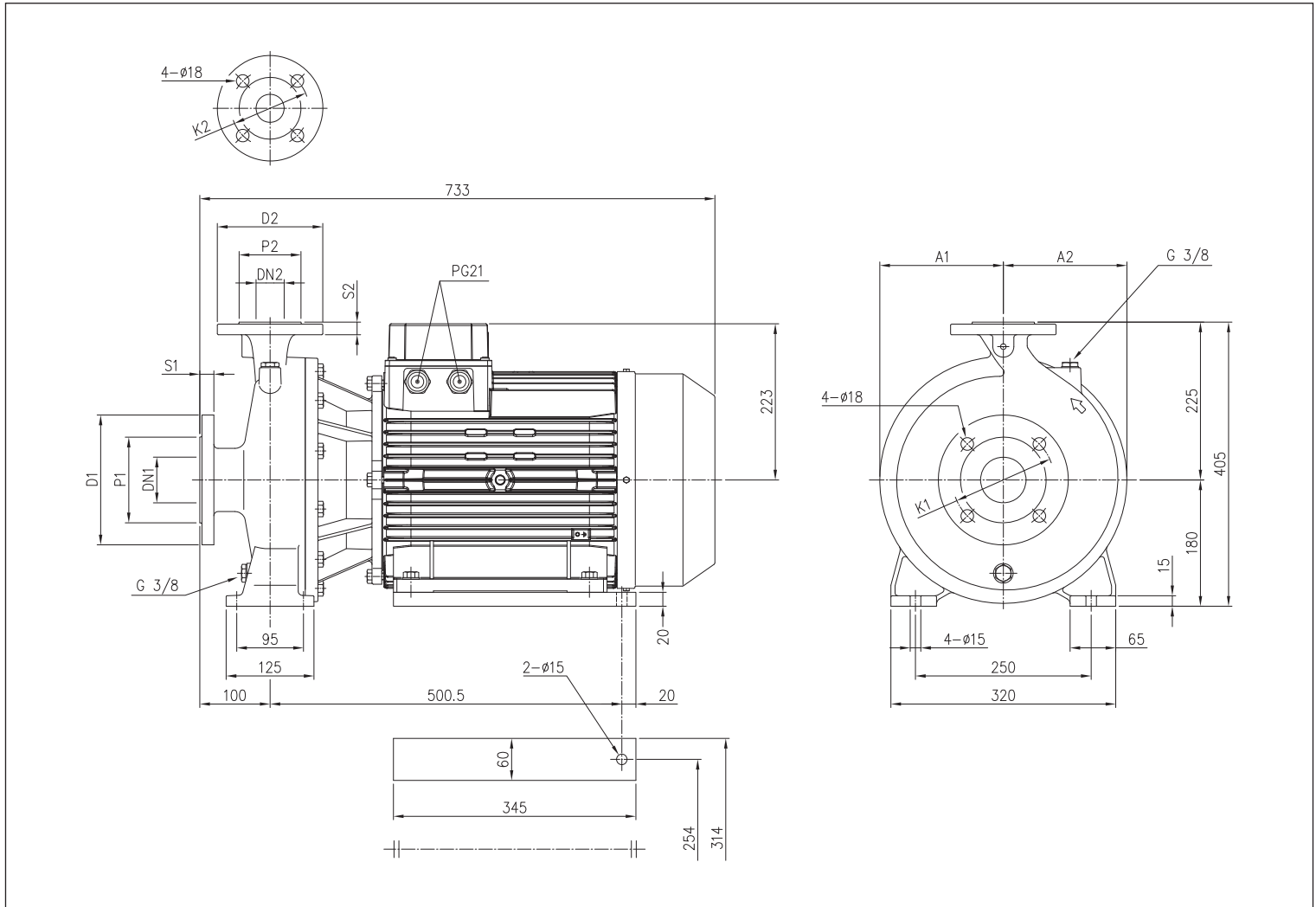
Model	Dimensions [mm]																				Weight [kg]									
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3 [1] [2]	R	W	M	M1	N1	N2		A1	A2	B	C	F	V1 [1]	V2 [1] [2]		
MD 32-125/1.1 (M)	50	102	125	165	20	32	78	100	140	18	252	112	140	124	141	80	70	100	50	140	190	104	104	408	219±230	13	-	PG 13,5	M20x1,5	27,6
MD 32-125/1.5 (M)	50	102	125	165	20	32	78	100	140	18	252	112	140	124	141	80	70	100	50	140	190	104	104	408	219±230	13	-	PG 13,5	M20x1,5	28,3
MD 32-160/1.5 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	124	141	80	70	100	50	190	240	123	123	408	219±230	13	-	PG 13,5	M20x1,5	31,5
MD 32-160/2.2 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	124	141	80	70	100	50	190	240	123	123	408	219±230	13	-	PG 13,5	M20x1,5	35,4
MD 32-200/3.0	50	102	125	165	20	32	78	100	140	18	340	160	180	124	-	80	70	100	50	190	240	144	144	433	244±255	13	-	PG 13,5	-	44,1
MD 32-200/4.0	50	102	125	165	20	32	78	100	140	18	340	160	180	141	-	80	70	100	50	190	240	144	144	454	253	13	-	PG 16	-	50,5
MD 32-250/5.5	50	102	125	165	20	32	78	100	140	18	405	180	225	150	-	100	95	125	65	250	320	176	176	495	275	15	PG 13,5	PG 16	-	70,5
MD 32-250/7.5	50	102	125	165	20	32	78	100	140	18	405	180	225	150	-	100	95	125	65	250	320	176	176	537	275	15	PG 13,5	PG 16	-	74,6
MD 32-250/9.2	50	102	125	165	20	32	78	100	140	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	84,3
MD 32-250/11	50	102	125	165	20	32	78	100	140	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	87,3
MD 40-125/1.5 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	124	141	80	70	100	50	160	210	104	111	408	219±230	13	-	PG 13,5	M20x1,5	28,9
MD 40-125/2.2 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	124	141	80	70	100	50	160	210	104	111	408	219±230	13	-	PG 13,5	M20x1,5	31,9
MD 40-160/3.0	65	122	145	185	20	40	88	110	150	18	292	132	160	124	-	80	70	100	50	190	240	123	123	433	244±255	13	-	PG 13,5	-	39,0
MD 40-160/4.0	65	122	145	185	20	40	88	110	150	18	292	132	160	141	-	80	70	100	50	190	240	123	123	454	253	13	-	PG 16	-	45,7
MD 40-200/5.5	65	122	145	185	20	40	88	110	150	18	340	160	180	150	-	100	70	100	50	212	265	144	144	495	275	13	PG 13,5	PG 16	-	60,1
MD 40-200/7.5	65	122	145	185	20	40	88	110	150	18	340	160	180	150	-	100	70	100	50	212	265	144	144	537	275	13	PG 13,5	PG 16	-	68,5
MD 40-250/11	65	122	145	185	20	40	88	110	150	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	90,7
MD 40-250/13	65	122	145	185	20	40	88	110	150	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	93,0
MD 50-125/2.2 (M)	65	122	145	185	20	50	102	125	165	20	292	132	160	124	141	100	70	100	50	190	240	104	124	428	219±230	13	-	PG 13,5	M20x1,5	34,0
MD 50-125/3.0	65	122	145	185	20	50	102	125	165	20	292	132	160	124	-	100	70	100	50	190	240	104	124	453	244±255	13	-	PG 13,5	-	36,0
MD 50-125/4.0	65	122	145	185	20	50	102	125	165	20	292	132	160	141	-	100	70	100	50	190	240	104	124	474	253	13	-	PG 16	-	42,3
MD 50-160/5.5	65	122	145	185	20	50	102	125	165	20	340	160	180	150	-	100	70	100	50	212	265	123	136	495	275	13	PG 13,5	PG 16	-	57,2
MD 50-160/7.5	65	122	145	185	20	50	102	125	165	20	340	160	180	150	-	100	70	100	50	212	265	123	136	537	275	13	PG 13,5	PG 16	-	68,7
MD 50-200/9.2	65	122	145	185	20	50	102	125	165	20	360	160	200	178	-	100	70	100	50	212	265	144	154	589	354	13	PG 13,5	PG 21	-	74,0
MD 50-200/11	65	122	145	185	20	50	102	125	165	20	360	160	200	178	-	100	70	100	50	212	265	144	154	589	354	13	PG 13,5	PG 21	-	80,9
MD 65-125/5.5	80	138	160	200	22	65	122	145	185	20	340	160	180	150	-	100	95	125	65	212	280	123	139	495	275	13	PG 13,5	PG 16	-	58,3
MD 65-125/7.5	80	138	160	200	22	65	122	145	185	20	340	160	180	150	-	100	95	125	65	212	280	123	139	537	275	13	PG 13,5	PG 16	-	67,0
MD 65-160/11	80	138	160	200	22	65	122	145	185	20	360	160	200	178	-	100	95	125	65	212	280	144	154	589	354	13	PG 13,5	PG 21	-	86,4
MD 65-160/15	80	138	160	200	22	65	122	145	185	20	360	160	200	178	-	100	95	125	65	212	280	144	154	589	354	13	PG 13,5	PG 21	-	91,9

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



### MD DIMENSIONS

2 Poles



### DIMENSIONS TABLE

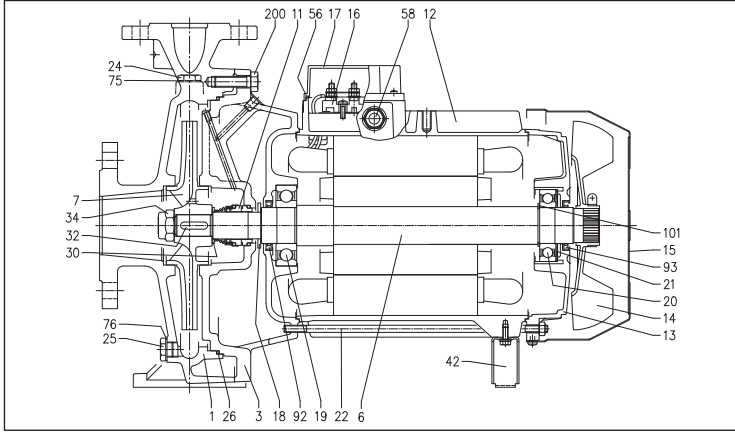
Model	Dimensions [mm]											Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	A1		A2
MD 40-250/15	65	122	145	185	20	40	88	110	150	18	176	176	96,8
MD 50-250/15	65	122	145	185	20	50	102	125	165	20	176	176	97,6
MD 50-250/18.5	65	122	145	185	20	50	102	125	165	20	176	176	126,0
MD 50-250/22	65	122	145	185	20	50	102	125	165	20	176	176	148,0
MD 65-200/18.5	80	138	160	200	22	65	122	145	185	20	144	168	126,0
MD 65-200/22	80	138	160	200	22	65	122	145	185	20	144	168	135,0



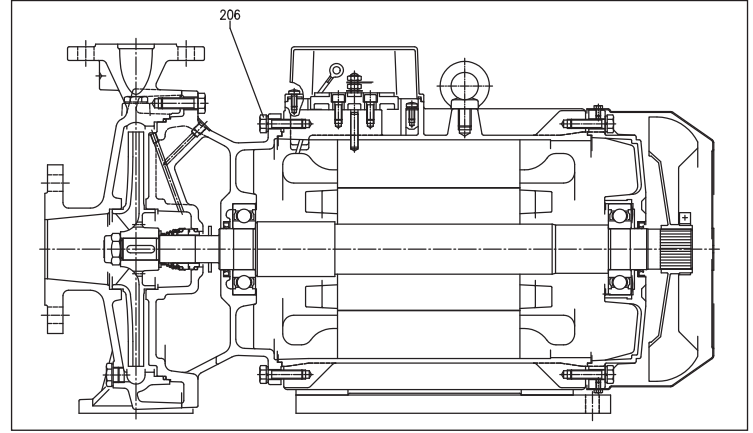
## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

**MD SECTIONAL VIEW** up to 13 kW



**MD SECTIONAL VIEW** from 15 kW and over (excluding 65-160/15)

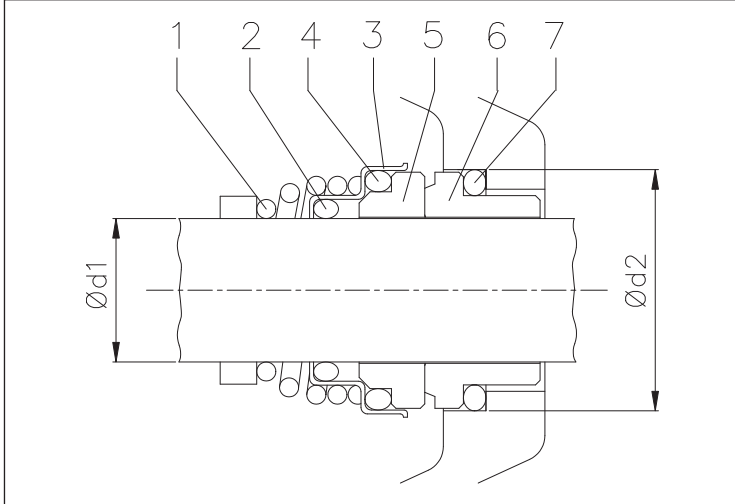


### MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-200-EN 1561	024	Filler cap	Brass
003	Motor support	Cast iron EN-GJL-200-EN 1561	025	Drain plug	Brass
006	Shaft	AISI 304 (part in contact with the liquid)	026	O-Ring	NBR
007	Impeller	Cast iron EN-GJL-200-EN 1561 - Bronze	030	Spacer	AISI 304
011	Mechanical seal	Carbon/Ceramic/NBR	032	Key	AISI 316
012	Motor case	-	034	Impeller nut	AISI 304
013	Motor cover	Aluminium	042	Foot	Fe P04
014	Fan	Polypropylene	056	Terminal box cover gasket	NBR
015	Fan cover	Galvanised steel Fe P04	058	Cable gland	-
016	Terminal box	-	075	Washer	Aluminium
017	Terminal box cover	Plastic / Aluminium	076	Washer	Aluminium
018	Spray protector washer	NBR	092	Sealing ring	-
019	Bearing (pump side)	-	093	Sealing ring	-
020	Bearing (motor side)	-	101	Seeger ring	Carbon steel TC 80
021	Adjusting ring	Stainless steel C70	200	Screw (pump body)	Galvanised Steel
022	Tie-rod	Fe 42	206	Screw (motor support)	Galvanised Steel
023	Screw	Galvanised Steel			

## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733 in cast iron

### MD MECHANICAL SEAL standard



### MATERIALS TABLE

Ref.	Name	Material
1	Spring	AISI 316
2	O-Ring	NBR
3	Structure/frame	AISI 304
4	O-Ring	NBR
5	Rotating part	Ceramic
6	Fixed part	Carbon
7	O-Ring	NBR

### 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

## MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD ELECTRIC DATA TABLE

2 Poles

Model	P <sub>2</sub>		Single phase Capacitor		P <sub>1</sub>		Absorbed Current [A]			
	[HP]	[kW]	μF	V <sub>c</sub>	Single phase [kW]	Three phase [kW]	Single phase 230V	230V	Three phase 400V	690V
MD 32-125/1.1 (M)	1,5	1,1	31,5	450	1,60	1,55	7,1	5,2	3	-
MD 32-125/1.5 (M)	2	1,5	40	450	2,05	2,2	9,3	5,9	3,4	-
MD 32-160/1.5 (M)	2	1,5	40	450	2,28	2,2	10,3	5,9	3,4	-
MD 32-160/2.2 (M)	3	2,2	50	450	2,91	2,9	13,3	8,7	5	-
MD 32-200/3.0	4	3	-	-	-	4	-	12	6,9	-
MD 32-200/4.0	5,5	4	-	-	-	5,2	-	16	9,2	-
MD 32-250/5.5	7,5	5,5	-	-	-	6,3	-	-	11,2	6,5
MD 32-250/7.5	10	7,5	-	-	-	8,3	-	-	14,6	8,4
MD 32-250/9.2	12,5	9,2	-	-	-	11	-	-	18,3	10,6
MD 32-250/11	15	11	-	-	-	12	-	-	20,7	12
MD 40-125/1.5 (M)	2	1,5	40	450	2,08	2,3	9,5	6	3,5	-
MD 40-125/2.2 (M)	3	2,2	50	450	2,77	2,9	12,9	8,7	5	-
MD 40-160/3.0	4	3	-	-	-	3,8	-	11,4	6,6	-
MD 40-160/4.0	5,5	4	-	-	-	5,3	-	17	9,8	-
MD 40-200/5.5	7,5	5,5	-	-	-	6,6	-	-	11,5	6,6
MD 40-200/7.5	10	7,5	-	-	-	9,1	-	-	15,5	9
MD 40-250/11	15	11	-	-	-	12,3	-	-	20,6	11,9
MD 40-250/13	17,5	13	-	-	-	15,2	-	-	25,3	14,6
MD 40-250/15	20	15	-	-	-	17,2	-	-	29,1	16,8
MD 50-125/2.2 (M)	3	2,2	50	450	2,80	2,9	12,9	8,7	5	-
MD 50-125/3.0	4	3	-	-	-	3,6	-	10,7	6,2	-
MD 50-125/4.0	5,5	4	-	-	-	4,9	-	15,4	8,9	-
MD 50-160/5.5	7,5	5,5	-	-	-	6,7	-	-	11,8	6,8
MD 50-160/7.5	10	7,5	-	-	-	8,8	-	-	15	8,7
MD 50-200/9.2	12,5	9,2	-	-	-	11,2	-	-	19	11
MD 50-200/11	15	11	-	-	-	13,5	-	-	22	12,7
MD 50-250/15	20	15	-	-	-	17,5	-	-	29,7	17,2
MD 50-250/18,5	25	18,5	-	-	-	21	-	-	37,7	21,8
MD 50-250/22	30	22	-	-	-	24	-	-	41	23,7
MD 65-125/5.5	7,5	5,5	-	-	-	7	-	-	12	6,9
MD 65-125/7.5	10	7,5	-	-	-	8,2	-	-	14	8,1
MD 65-160/11	15	11	-	-	-	13	-	-	20,8	12
MD 65-160/15	20	15	-	-	-	16	-	-	27	15,6
MD 65-200/18.5	25	18,5	-	-	-	21	-	-	39	22,5
MD 65-200/22	30	22	-	-	-	24	-	-	43	24,8