MD - MMD

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

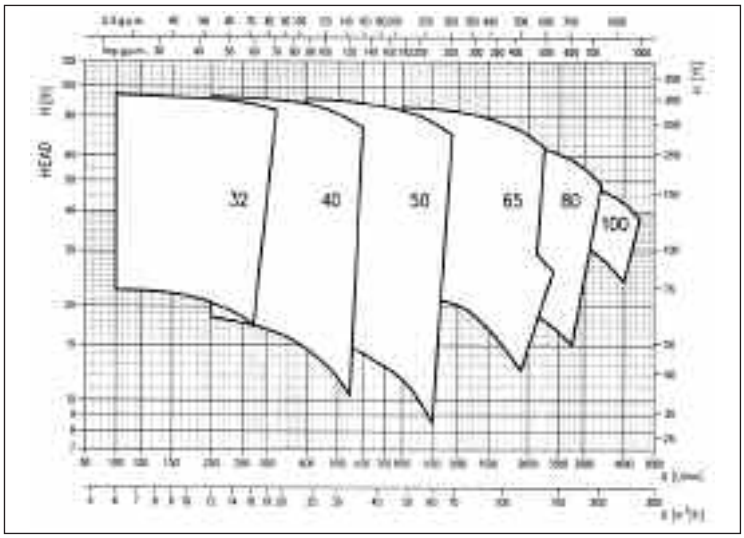
MATERIALS

- 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

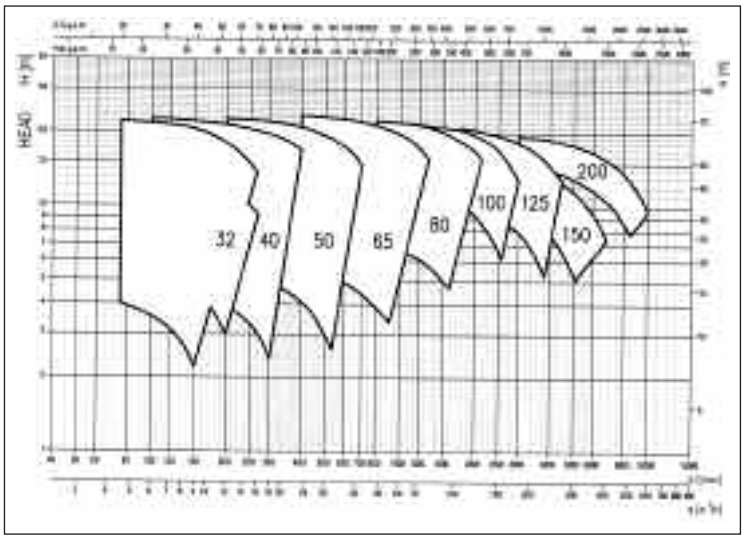
ACCESSORIES (on request)

- Galvanised counter-flange

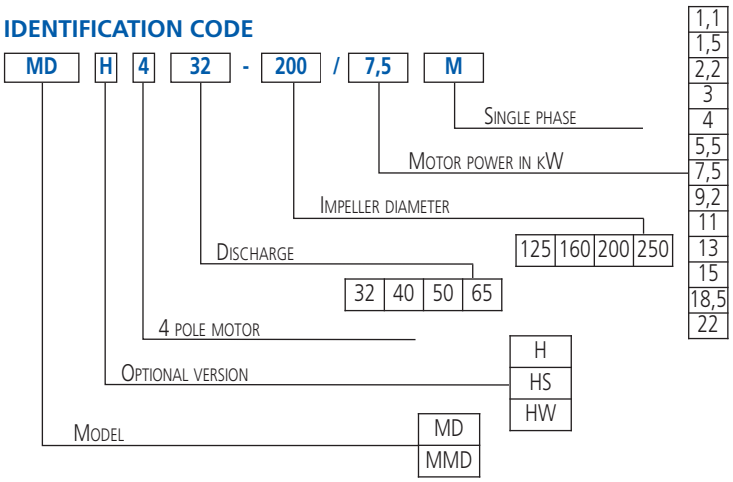
2 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



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



IDENTIFICATION CODE



MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD PERFORMANCE TABLE

2 Poles

Model	P_2		Q=Flow rate																				
			l/min	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400
	[HP]	[kW]	m^3/h	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 32-125/1.1 (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	-	-	

MMD PERFORMANCE TABLE

2 Poles

Model	P_2		Q=Flow rate												
			l/min	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500
	[HP]	[kW]	m^3/h	48	60	75	90	105	120	135	150	165	180	210	240	270
				H=Head [m]												
MMD 65-250/22	30	22	64,0	63,0	61,0	57,0	53,0	-	-	-	-	-	-	-	-	-
MMD 65-250/30	40	30	77,0	76,0	74,0	70,0	66,0	60,0	53,0*	-	-	-	-	-	-	-
MMD 65-250/37	55	37	86,0	85,0	83,0	79,0	75,0	70,0	64,0*	-	-	-	-	-	-	-
MMD 80-160/10	13,6	10	-	24,0	23,0	22,0	21,0	19,5	18,0	16,5	15,0*	-	-	-	-	-
MMD 80-160/12.5	17	12,5	-	28,5	28,0	27,0	26,0	24,5	23,0	21,5	20,0	18,5*	-	-	-	-
MMD 80-160/15	20	15	-	34,0	33,3	32,5	31,8	31,0	29,0	27,5	26,0	24,3	-	-	-	-
MMD 80-200/18.5	25	18,5	-	42,0	41,0	40,0	38,5	37,0	35,0	33,0	30,5	28,0	-	-	-	-
MMD 80-200/22	30	22	-	47,0	46,5	45,5	44,5	43,0	41,0	39,0	37,0	34,0	-	-	-	-
MMD 80-200/30	40	30	-	55,0	54,0	53,0	52,0	51,0	49,0	47,0	45,0	43,0	37,0	-	-	-
MMD 80-200/37	55	37	-	57,0	56,8	56,5	56,0	55,0	54,0	52,5	51,0	48,0	42,0	-	-	-
MMD 80-250/37	55	37	-	-	67,5	67,0	66,2	65,0	63,3	61,0	58,3	55,0	47,0	-	-	-
MMD 100-200/22	30	22	-	-	-	38,5	38,0	37,0	36,0	34,5	33,0	31,5	28,0	24,0	-	
MMD 100-200/30	40	30	-	-	-	47,0	46,3	45,6	44,8	43,7	42,4	41,0	38,0	34,6*	30,0**	
MMD 100-200/37	55	37	-	-	-	53,7	53,3	53,0	52,0	51,0	50,0	49,0	46,0	43,0*	38,0**	

* The suction manometric height must not exceed 2 m
** Suction with positive head of 1 m

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 PERFORMANCE TABLE

4 Poles

Model	P_2		Q=Flow rate l/min	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250
	[HP]	[kW]	m^3/h	3	4,5	6	7,5	9	10,5	12	13,5	15	16,5	18	21	24	27	30	33	36	39	42	48	54	60	66	72	78	84	90	105	120	135
			H=Head [m]																														
MMD4 32-125/0,25 R	0,33	0,25		4,4	4,0	3,5	3,0	2,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/0,25	0,33	0,25		6,2	6,1	5,8	5,3	4,6	3,8	3,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-160/0,37	0,5	0,37		-	9,2	8,9	8,3	7,7	6,8	5,8	4,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,75	1,0	0,75		-	12,8	12,4	11,9	11,3	10,6	9,8	8,9	8,0	7,0	6,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,92	1,25	0,92		-	14,6	14,3	13,8	13,3	12,7	11,8	10,9	10,0	9,0	8,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-250/1,1	1,5	1,1		-	18,5	18,0	17,5	17,0	15,9	14,5	12,8	11,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/1,5	2	1,5		-	22,0	21,6	21,2	20,5	19,4	18,0	16,5	15,0	13,0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,25	0,33	0,25		-	-	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,9	2,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,37	0,5	0,37		-	-	6,3	6,2	6,1	6,0	5,8	5,5	5,2	4,9	4,4	3,0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-160/0,55	0,75	0,55		-	-	8,8	8,6	8,4	8,1	7,7	7,3	6,9	6,4	5,9	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1 R	1,5	1,1		-	-	12,7	12,5	12,1	11,7	11,2	10,7	10,1	9,5	8,5	6,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1	1,5	1,1		-	-	14,2	14,0	13,8	13,4	13,0	12,5	11,8	11,0	10,2	8,3	6,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/1,5	2	1,5		-	-	18,3	18,0	17,7	17,4	17,0	16,7	16,2	15,6	15,0	13,7	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/2,2	3	2,2		-	-	22,5	22,3	22,0	21,7	21,4	21,2	20,5	20,2	19,5	18,5	17,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0,37	0,5	0,37		-	-	-	-	5,3	5,3	5,2	5,1	5,0	4,9	4,8	4,5	4,1	3,6	3,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0.55	0,75	0,55		-	-	-	-	6,4	6,3	6,3	6,2	6,1	6,0	5,9	5,5	5,2	4,9	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,75	1,0	0,75		-	-	-	-	-	-	8,1	8,0	7,9	7,8	7,7	7,4	7,0	6,6	6,0	5,1	4,0	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,92	1,25	0,92		-	-	-	-	-	-	9,0	8,9	8,9	8,8	8,7	8,4	8,1	7,7	7,2	6,4	5,5	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,1	1,5	1,1		-	-	-	-	-	-	12,3	12,2	12,0	11,8	11,5	10,8	10,0	9,0	8,0	7,0	5,8	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,5	2	1,5		-	-	-	-	-	-	14,1	14,0	13,9	13,7	13,5	12,8	12,0	11,3	10,2	9,0	7,8	6,4	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/2,2	3	2,2,		-	-	-	-	-	-	18,5	18,3	18,1	17,8	17,5	17,0	16,2	15,5	14,5	13,5	12,5	11,3	10,0	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/3	4	3		-	-	-	-	-	-	22,5	22,4	22,3	22,2	22,0	21,5	20,9	20,2	19,4	18,5	17,5	16,3	14,7	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-125/0,75	1,0	0,75		-	-	-	-	-	-	-	-	-	-	5,8	5,7	5,6	5,5	5,3	5,1	4,9	4,6	4,4	3,9	-	-	-	-	-	-	-	-	-	-
MMD4 65-160/1,1	1,5	1,1		-	-	-	-	-	-	-	-	-	-	8,5	8,5	8,4	8,3	8,2	8,1	8,0	7,8	7,4	6,8	5,8	5,0	-	-	-	-	-	-	-	-
MMD4 65-160/1,5	2	1,5		-	-	-	-	-	-	-	-	-	-	10,2	10,1	10,0	9,9	9,8	9,6	9,4	9,2	9,0	8,4	7,5	6,5	-	-	-	-	-	-	-	-
MMD4 65-200/2,2	3	2,2		-	-	-	-	-	-	-	-	-	-	-	-	12,5	12,4	12,3	12,2	12,1	12,0	11,7	11,1	10,5	9,6	8,5	-	-	-	-	-	-	-
MMD4 65-200/3	4	3		-	-	-	-	-	-	-	-	-	-	-	-	15,3	15,3	15,2	15,1	15,0	14,8	14,6	14,3	13,6	12,8	12,0	11,0	-	-	-	-	-	-
MMD4 65-250/4	5,5	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,5	19,3	19,1	18,8	18,5	17,5	16,5	15,5	14,0	12,5	10,4	-	-	-	-	-
MMD4 65-250/5.5	7,5	5,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,0	22,8	22,6	22,4	22,2	21,4	20,6	19,7	18,7	17,3	15,7	14,0	-	-	-	-
MMD4 80-160/1,5	2	1,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,7	7,6	7,5	7,3	7,0	6,7	6,4	6,1	5,7	5,4	5,0	-	-	-
MMD4 80-160/2,2	3	2,2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,7	9,6	9,5	9,3	9,0	8,8	8,5	8,2	7,9	7,5	7,1	6,0	-	-
MMD4 80-200/3	4	3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,0	11,9	11,7	11,5	11,3	11,0	10,5	10,0	9,5	9,0	8,5	7,0	-	-
MMD4 80-200/4	5,5	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,4	14,3	14,2	14,0	13,8	13,5	13,1	12,6	12,2	11,6	11,0	9,0	6,5	-
MMD4 80-250/5,5	7,5	5,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,2	18,9	18,5	18,0	17,6	17,1	16,5	16,0	14,0	12,0	-
MMD4 80-250/7,5	10	7,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,3	22,1	21,9	21,7	21,3	21,0	20,5	20,0	18,5	16,9	14,5

* The suction manometric height must not exceed 2 m

MMD4 PERFORMANCE TABLE

4 Poles

Model	P_2		Q=Flow rate l/min	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8000	8500	9000	9500	10000
	[HP]	[kW]	m^3/h	54	60	66	72	78	84	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	480	510	540	570	600
			H=Head [m]																										
MMD4 100-200/4	5,5	4		12,3	12,2	12,0	11,8	11,6	11,4	11,2	10,3	9,3	8,0	6,6	4,8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-200/5,5	7,5	5,5		14,5	14,4	14,2	14,0	13,8	13,6	13,4	12,8	12,0	11,0	9,8	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/7,5	10	7,5		-	19,5	19,3	19,1	18,9	18,7	18,5	17,5	16,5	15,2	14,0	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/9.2	12,5	9,2		-	22,0	21,9	21,8	21,7	21,6	21,5	20,5	19,5	18,5	17,0	15,0	12,8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/5,5	7,5	5,5		-	-	-	-	-	-	10,5	10,3	9,9	9,5	9,1	8,5	7,9	6,4	5,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5 R	10	7,5		-	-	-	-	-	-	11,8	11,6	11,3	11,0	10,6	10,2	9,6	8,3	7,7	6,7	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5	10	7,5		-	-	-	-	-	-	-	12,9	12,7	12,4	12,1	11,7	11,2	10,1	9,6	8,7	7,1*	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/9.2	12,5	9,2		-	-	-	-	-	-	-	14,3	14,1	13,8	13,6	13,2	12,8	11,8	11,3	10,6	9,2	7,6**	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/11	15	11		-	-	-	-	-	-	-	17,2	16,7	16,2	15,5	14,8	13,9	12,0	11,3	10,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/15	20	15		-	-	-	-	-	-	-	21,0	20,5	20,1	19,5	18,9	18,2	16,6	16,0	14,8	12,8	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/7.5	10	7,5		-	-	-	-	-	-	-	-	11,0	10,7	10,4	10,1	9,7	8,8	8,4	7,8	6,6	5,3	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/9.2	12,5	9,2		-	-	-	-	-	-	-	-	12,0	11,8	11,6	11,2	10,9	10,2	9,8	9,2	8,0	6,8	5,6	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/11	15	11		-	-	-	-	-	-	-	-	-	-	13,7	13,5	13,2	12,5	12,2	11,7	10,8	9,8	8,7	6,1	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/15	20	15		-	-	-	-	-	-	-	-	-	-	15,2	14,9	14,7	14,2	13,8	13,4	12,5	11,6	10,5	8,2	6,8	-	-	-	-	-	-	-	-	-
MMD4 200-250/18.5 R	25	18,5		-	-	-	-	-	-	-	-	-	-	-	-	14,9	14,5	14,3	14,1	13,6	13,0	12,3	11,0	10,3	8,6	7,8	-	-	-	-	-	-	-
MMD4 200-250/18.5	25	18,5		-	-	-	-	-	-	-	-	-	-	-	-	15,9	15,5	15,3	15,2	14,7	14,2	13,6	12,3	11,6	10,0	9,1	8,2	-	-	-	-	-	-
MMD4 200-250/22 R	30	22		-	-	-	-	-	-	-	-	-	-	-	-	-	18,0	17,8	17,6	17,1	16,6	16,0	14,7	13,9	12,2	11,2	10,1	9,0	-	-	-	-	-
MMD4 200-250/22	30	22		-	-	-	-	-	-	-	-	-	-	-	-	-	19,1	18,9	18,8	18,3	17,8	17,3	16,0	15,3	13,7	12,7	11,7	10,7	9,6	-	-	-	-

* The suction manometric height must not exceed 2 m
** Suction with positive head of 1 m

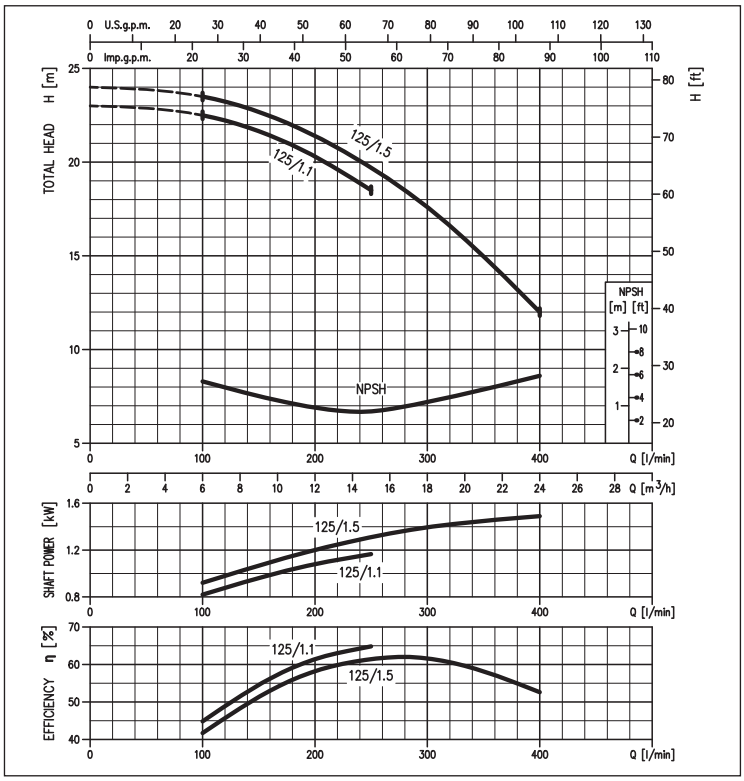
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

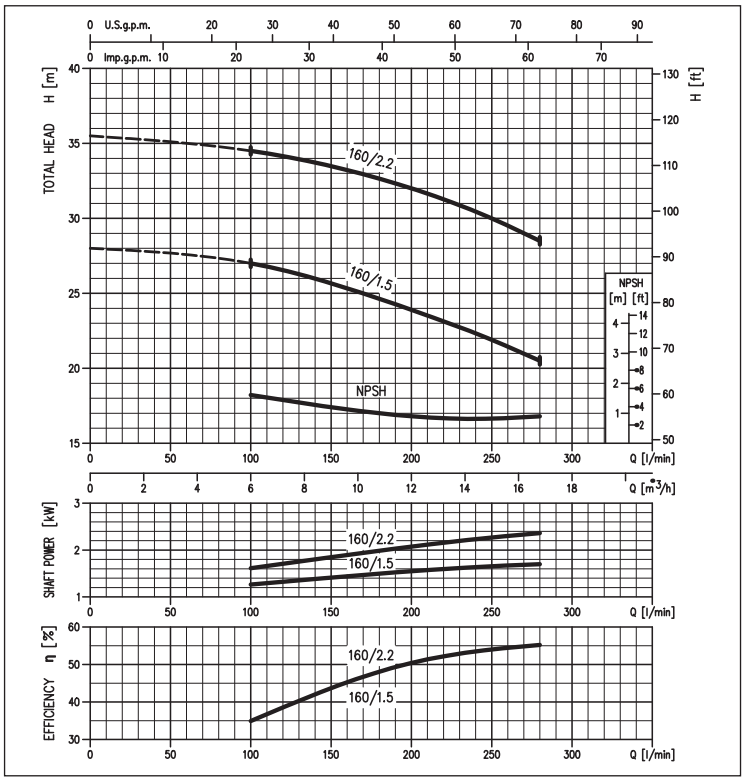
MD 32-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



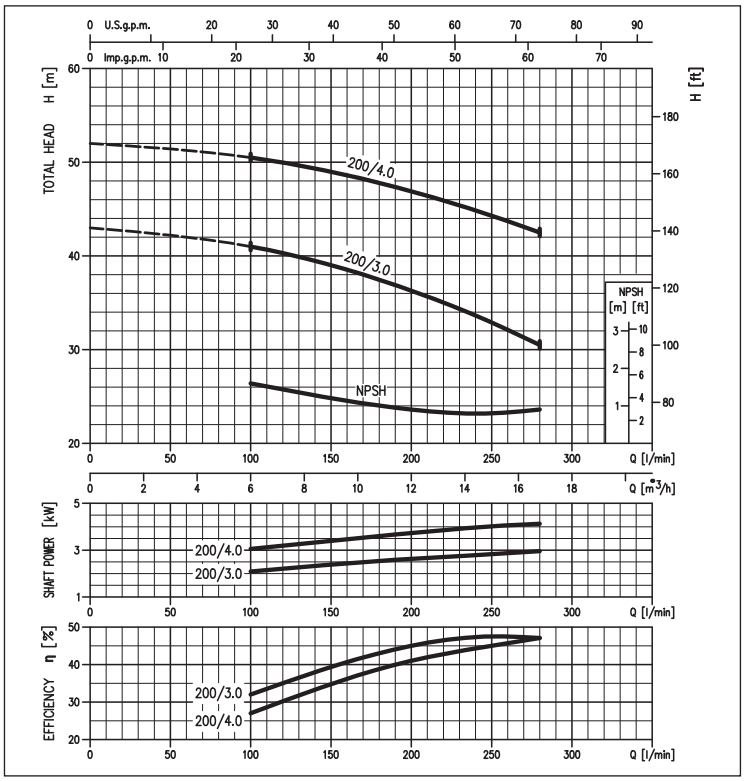
MD 32-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



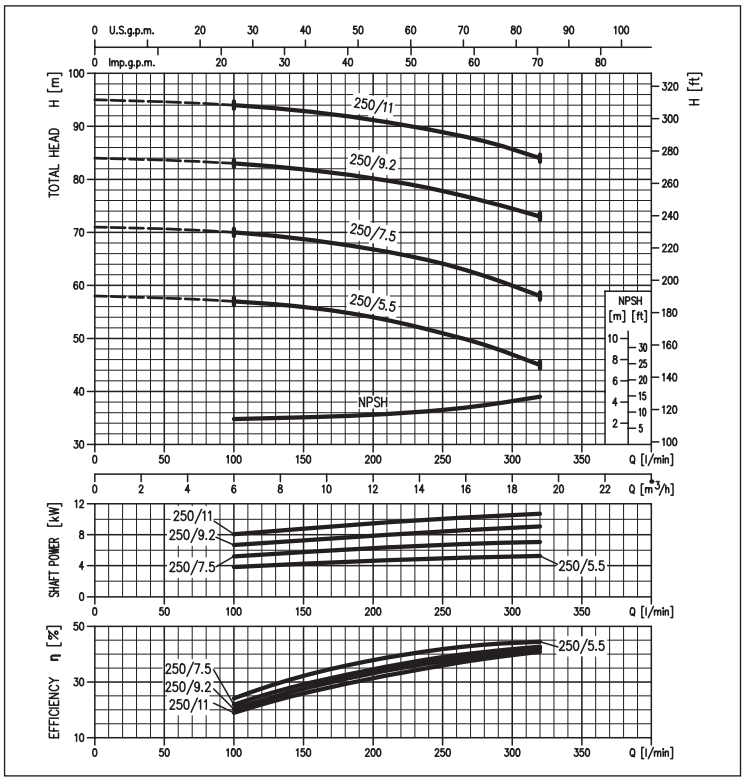
MD 32-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 32-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)

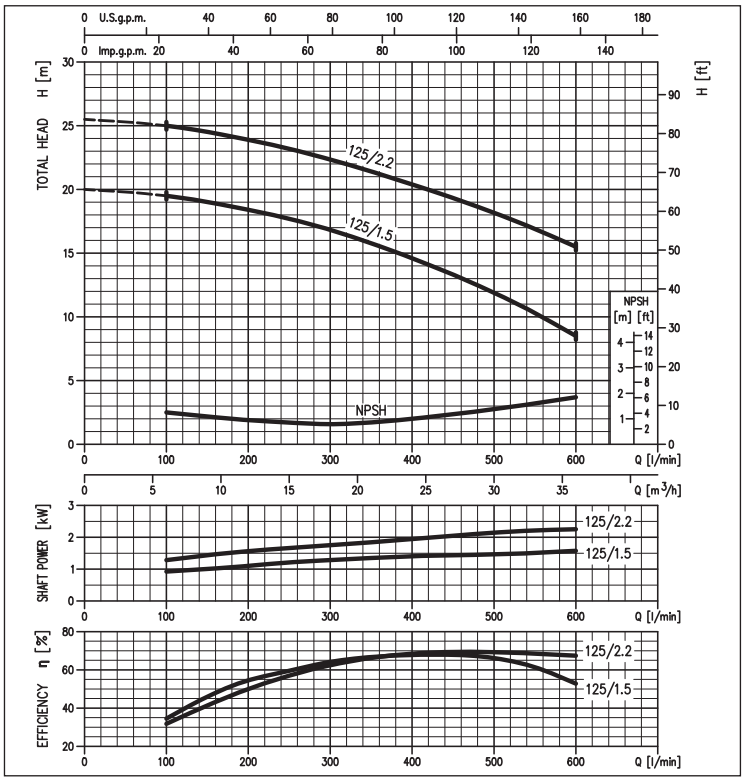


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

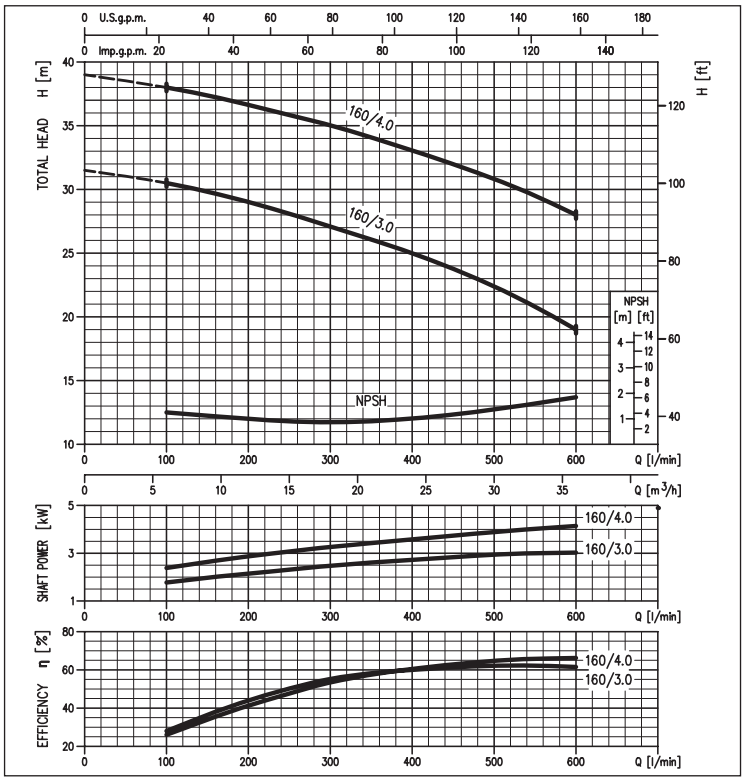
MD 40-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



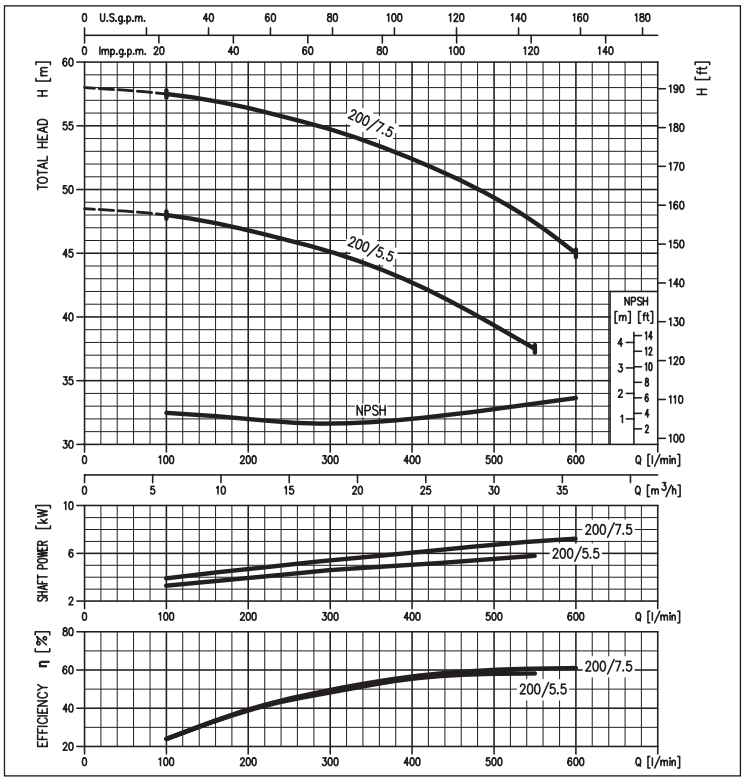
MD 40-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



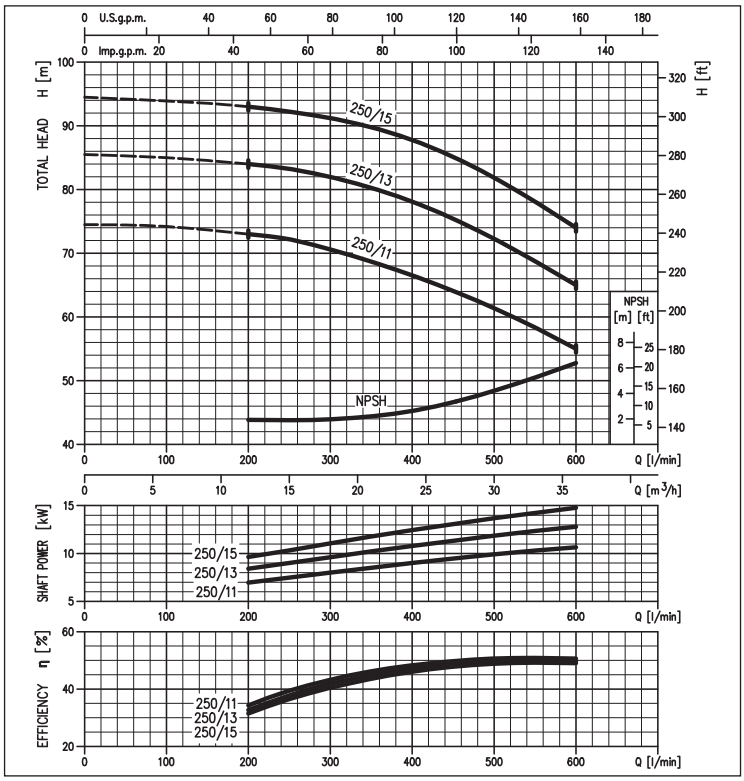
MD 40-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 40-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



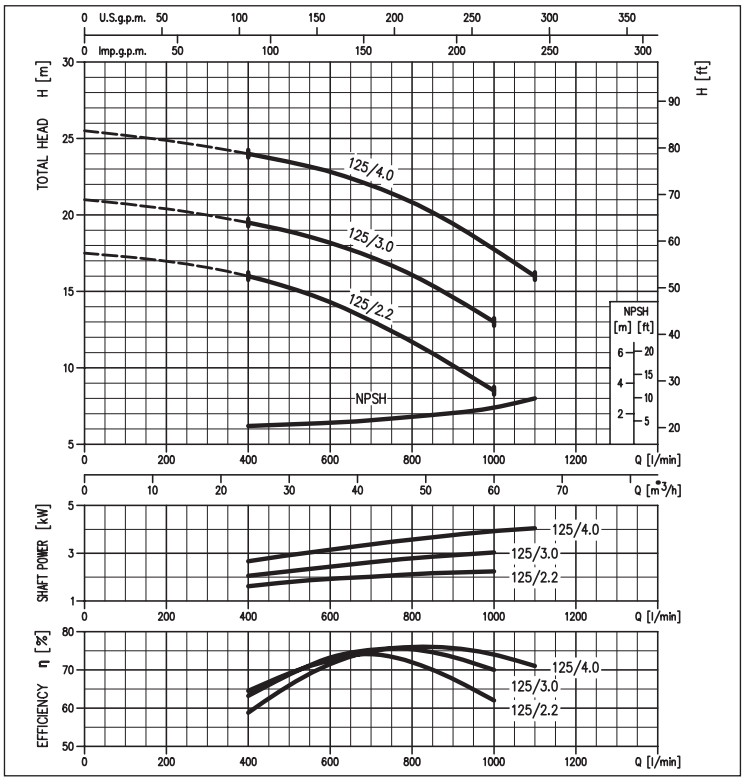
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

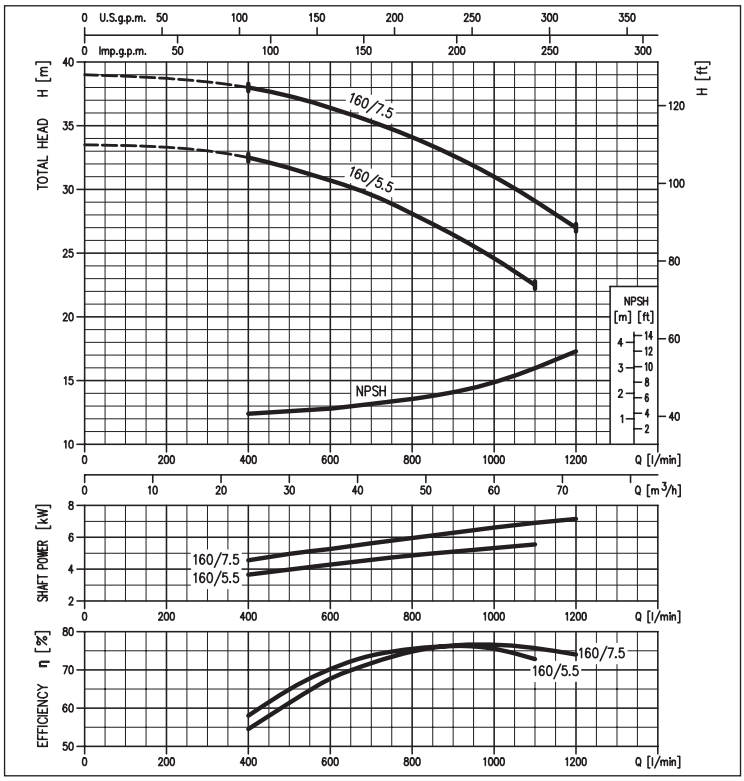
MD 50-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



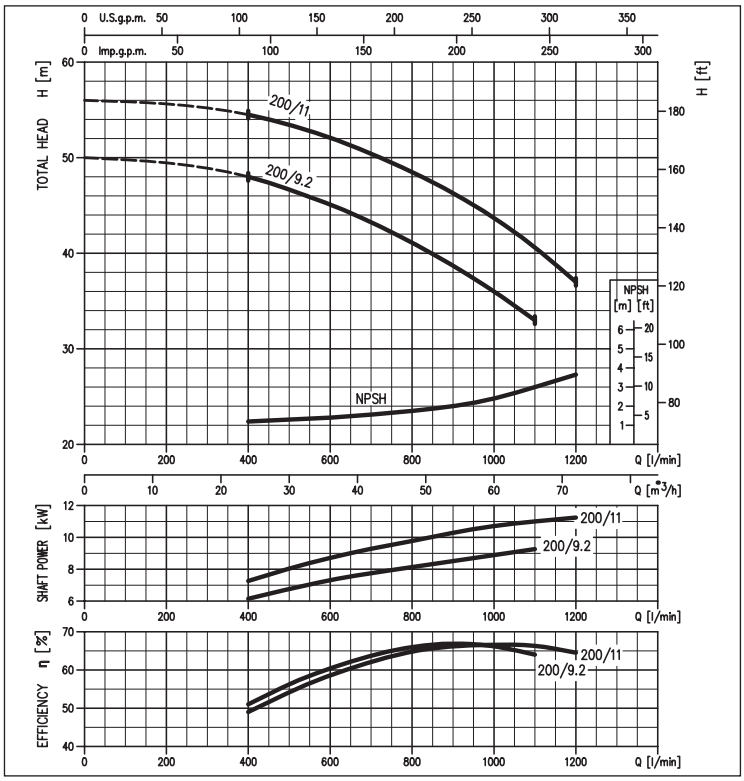
MD 50-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



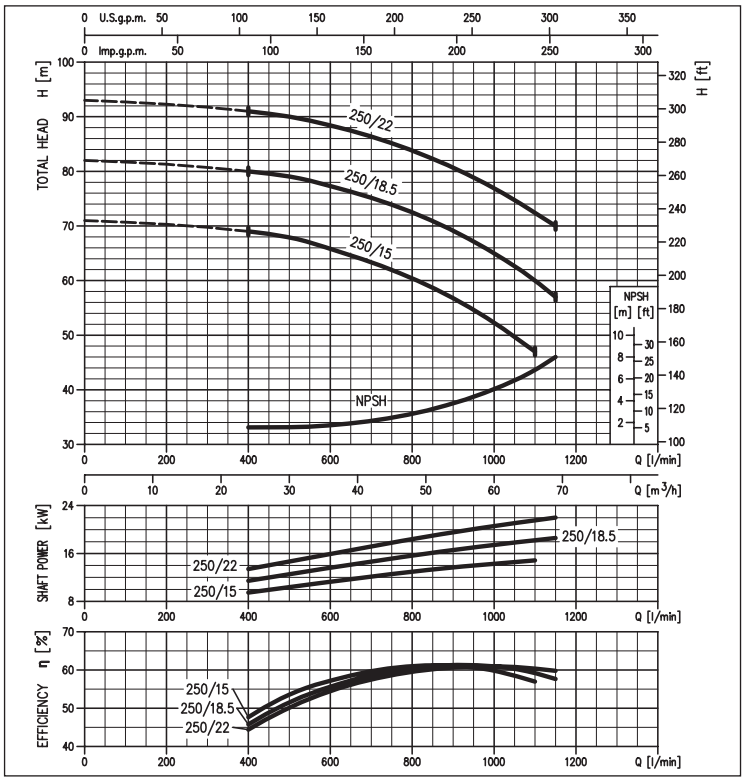
MD 50-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 50-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



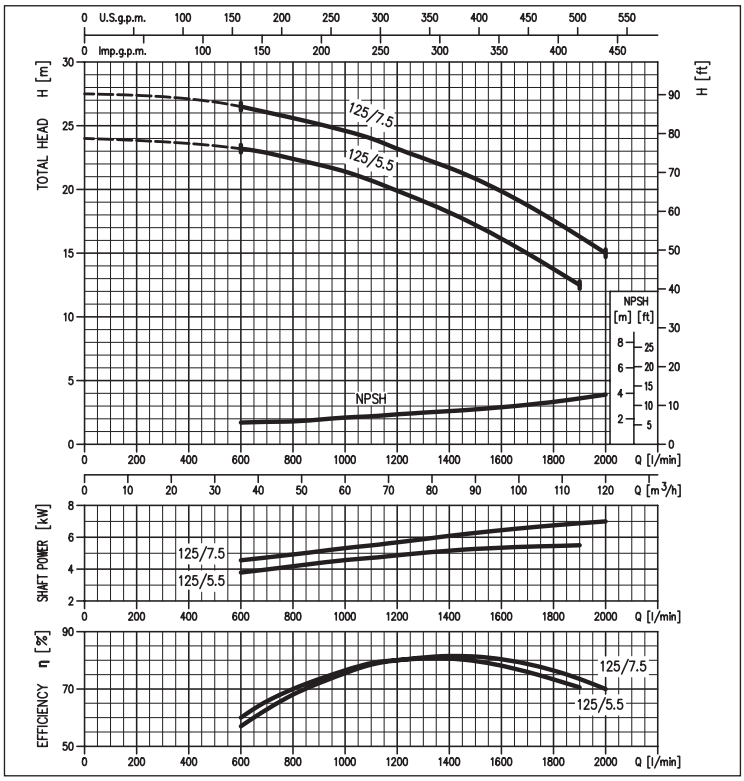
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

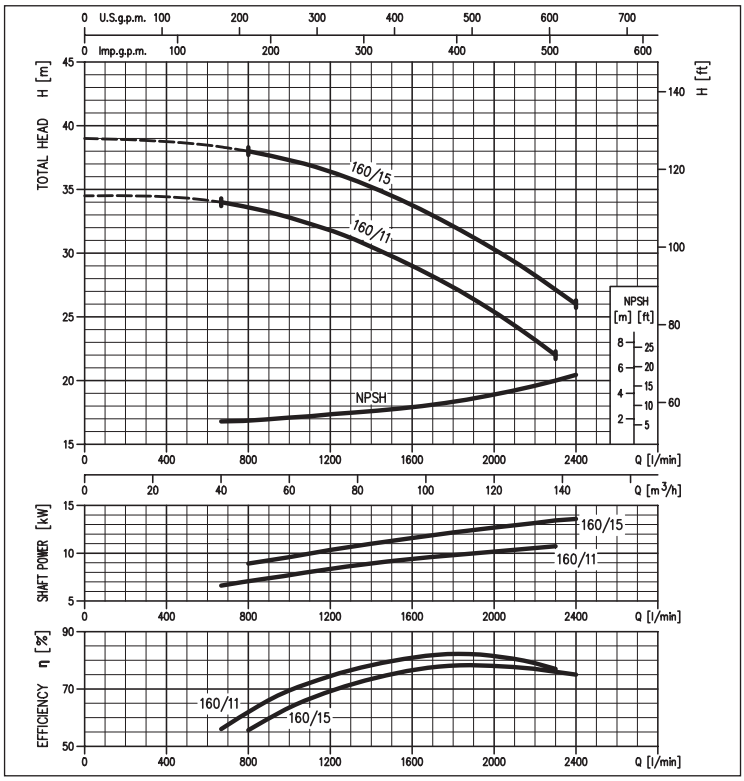
MD 65-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



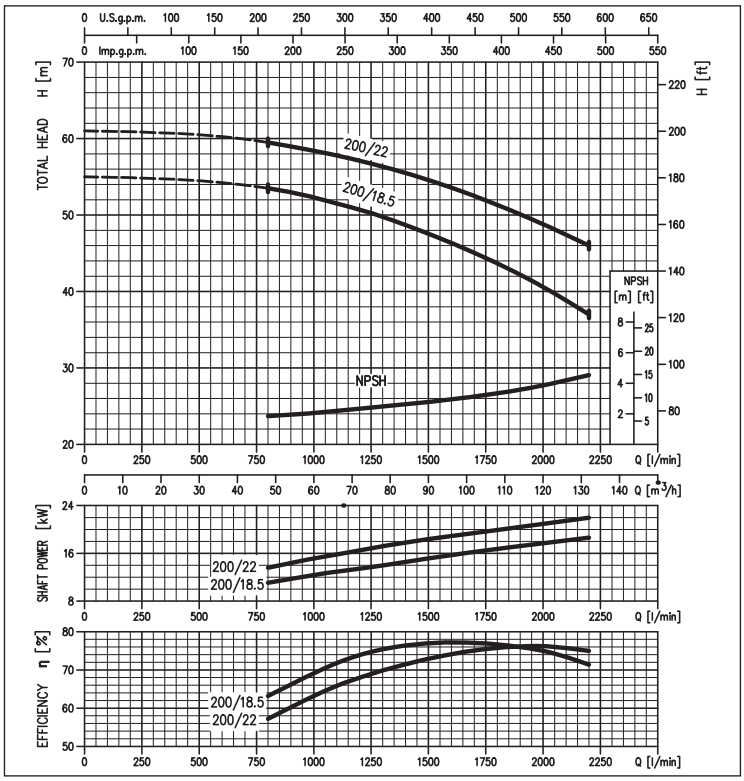
MD 65-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



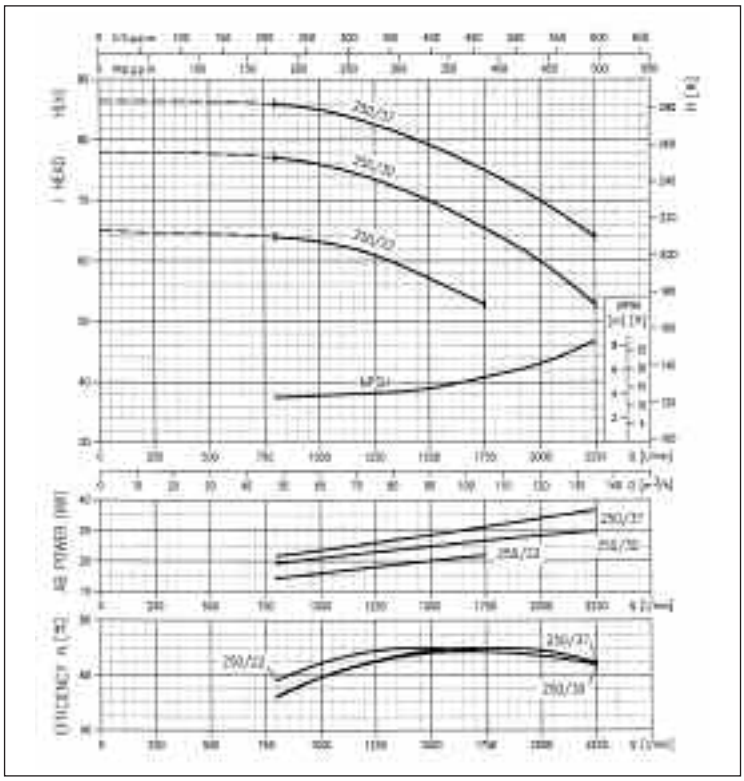
MD 65-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MMD 65-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



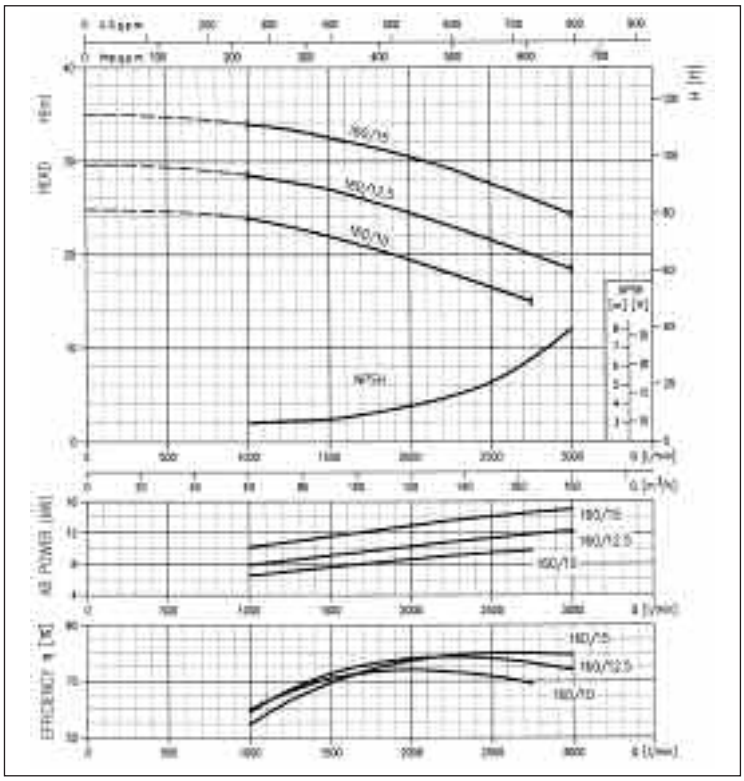
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

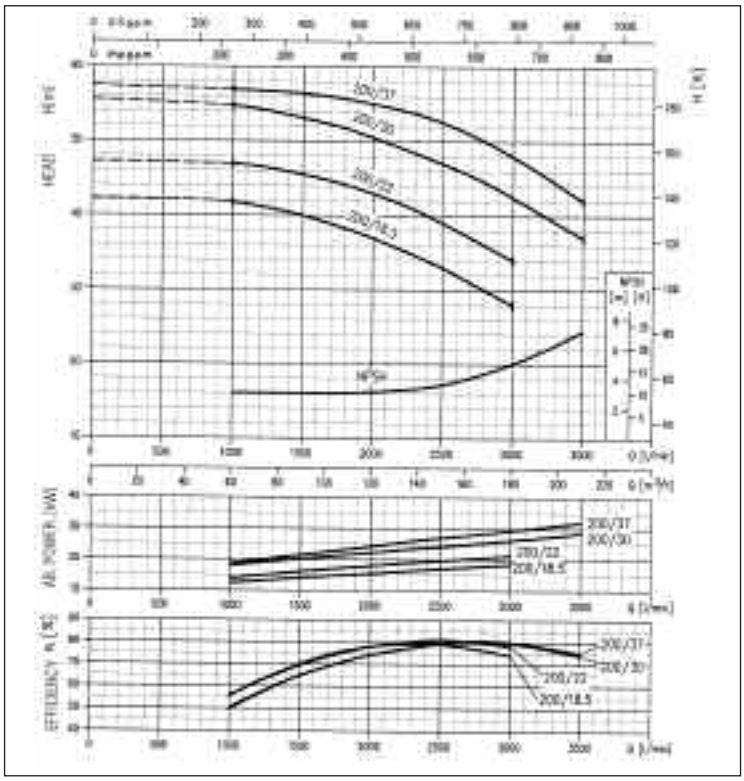
MMD 80-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



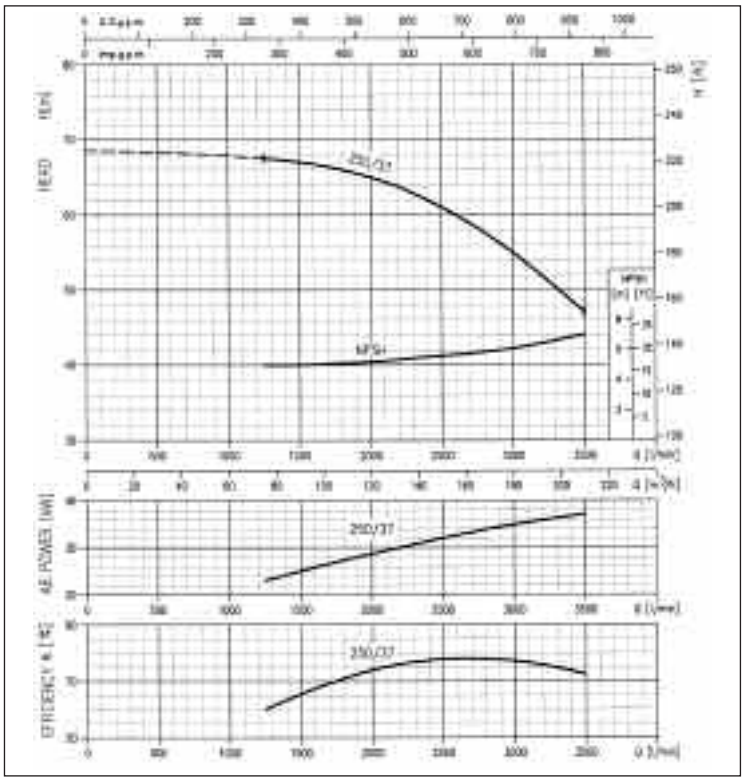
MMD 80-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



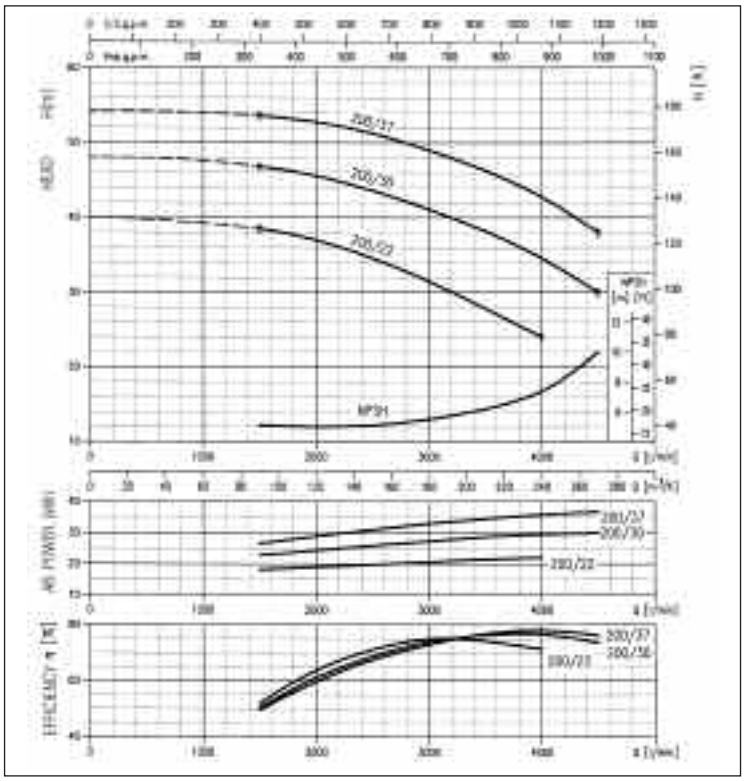
MMD 80-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MMD 100-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)

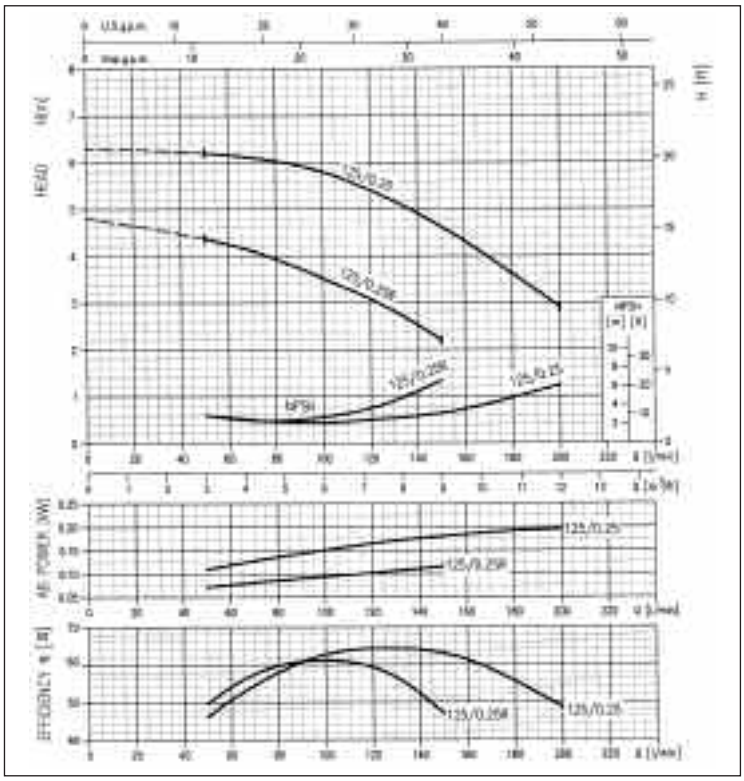


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

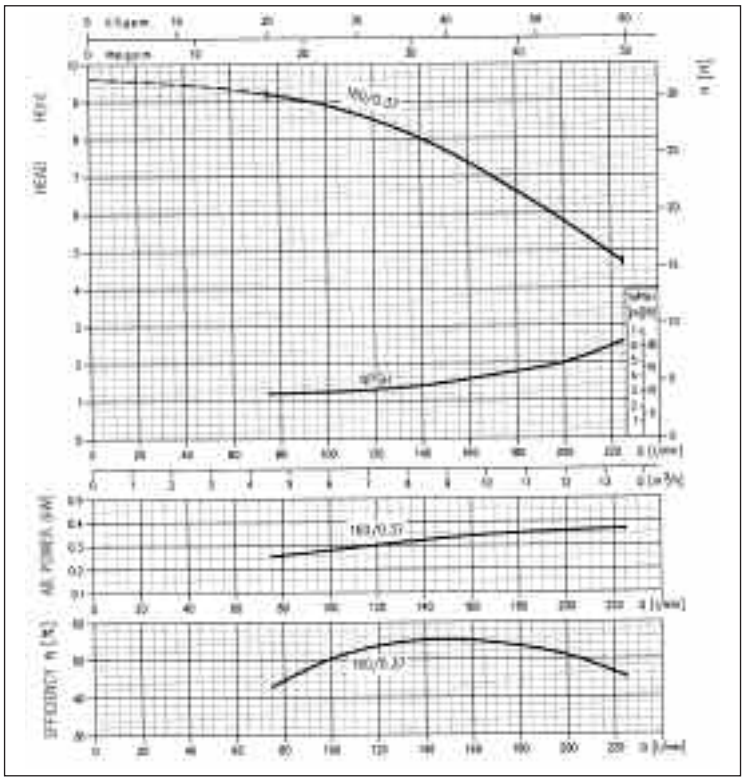
MMD4 32-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



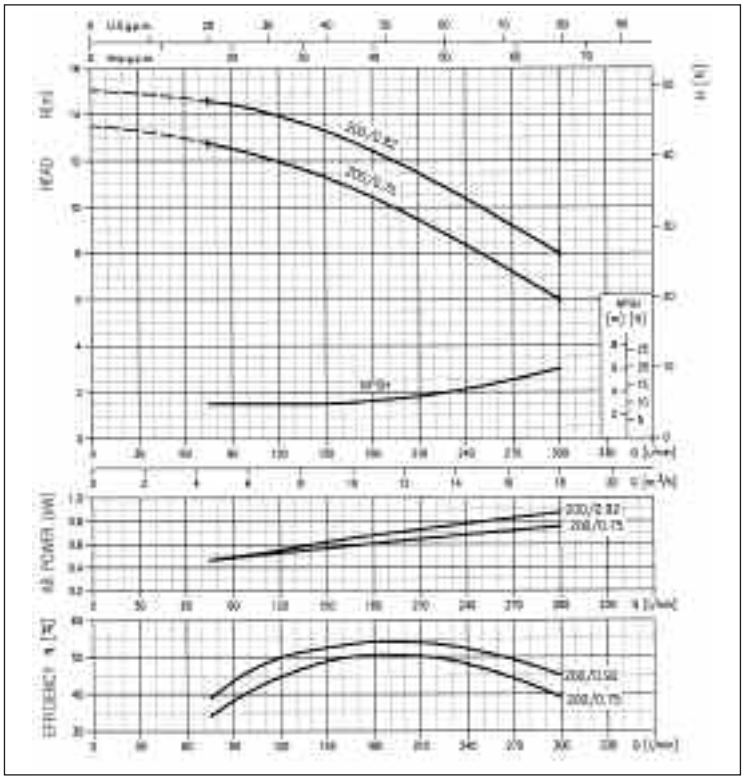
MMD4 32-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



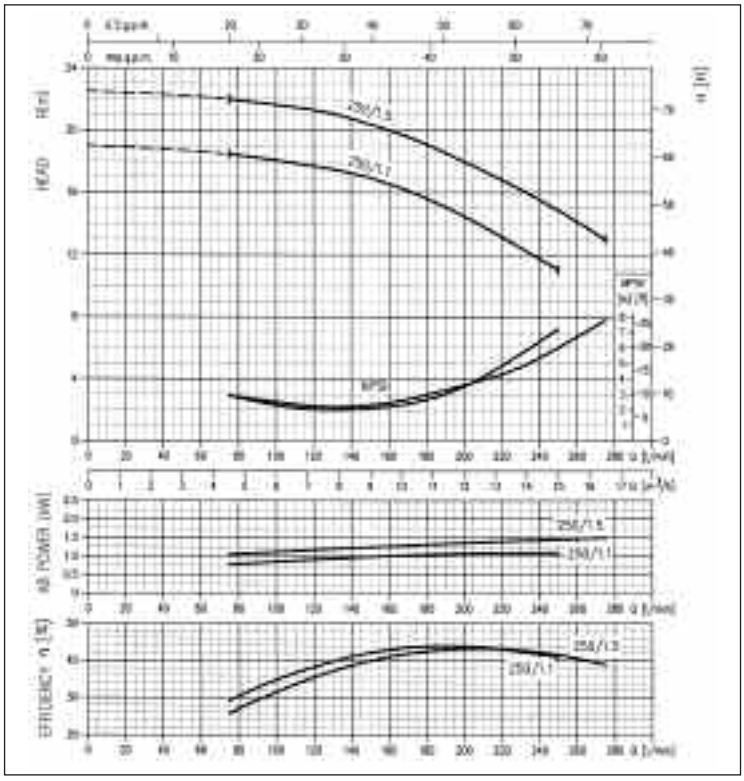
MMD4 32-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 32-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

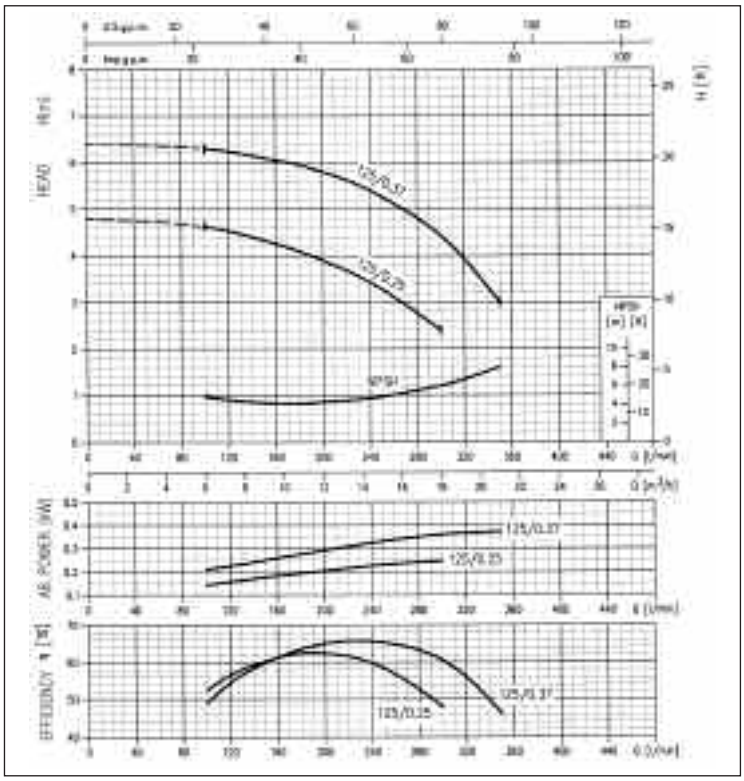


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

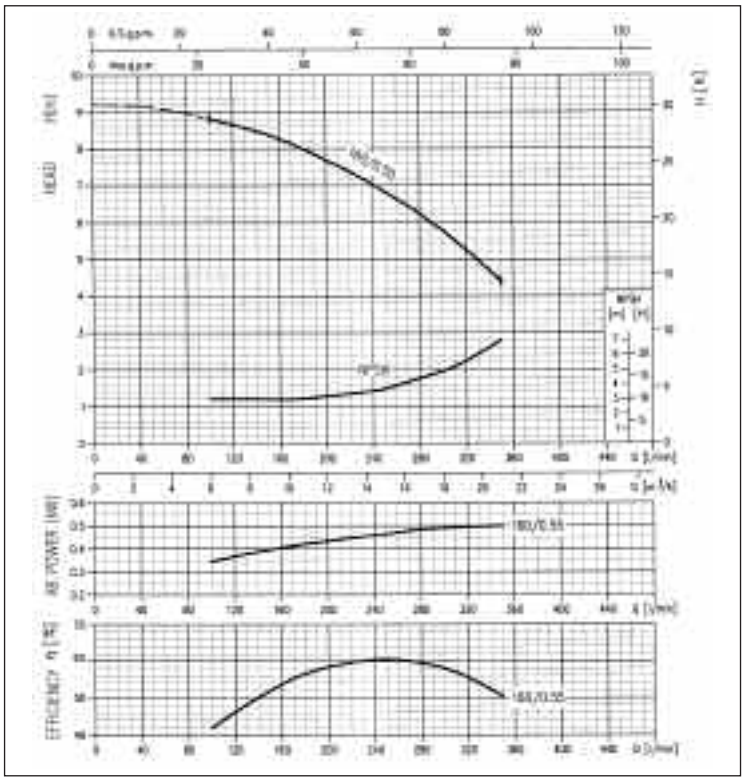
MMD4 40-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



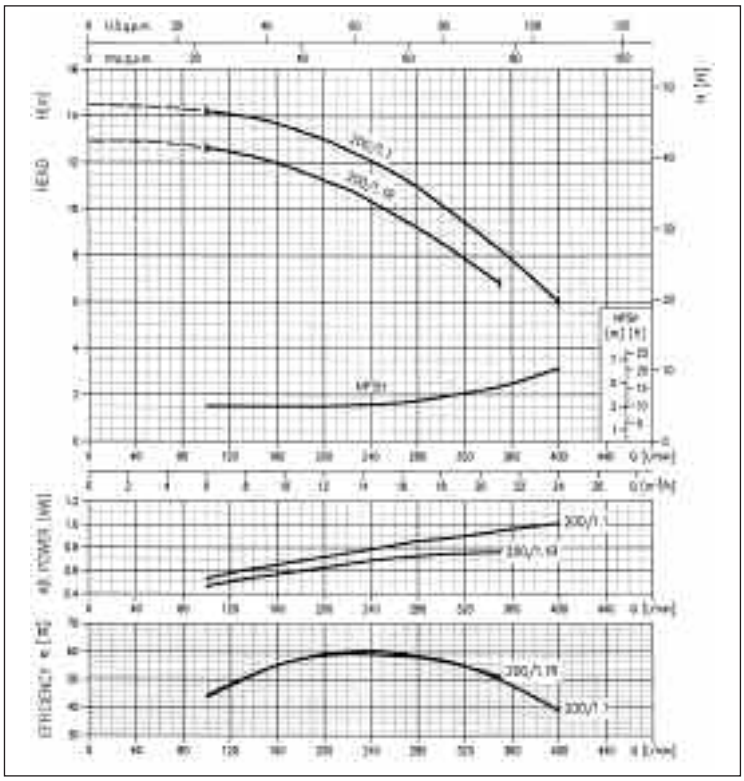
MMD4 40-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



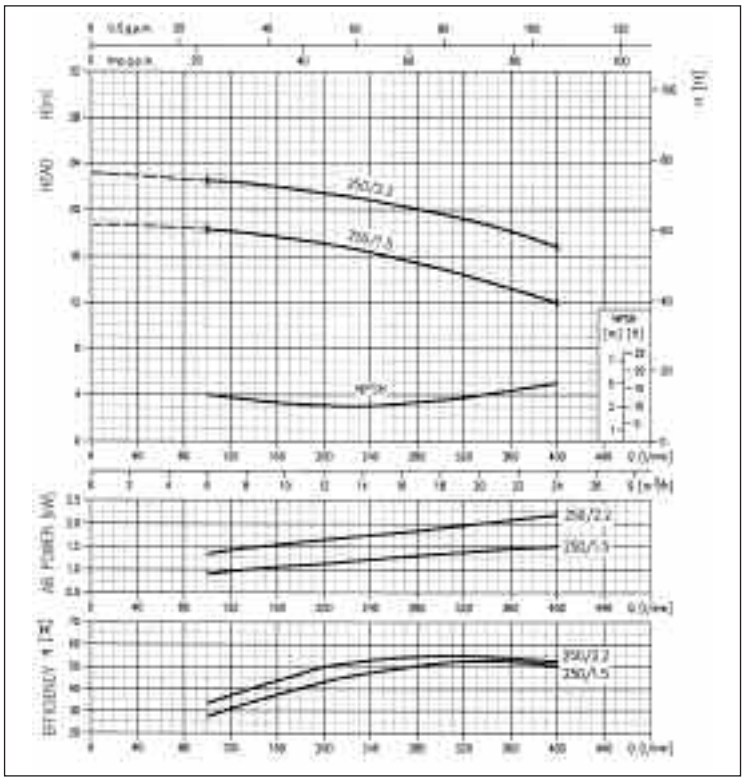
MMD4 40-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 40-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

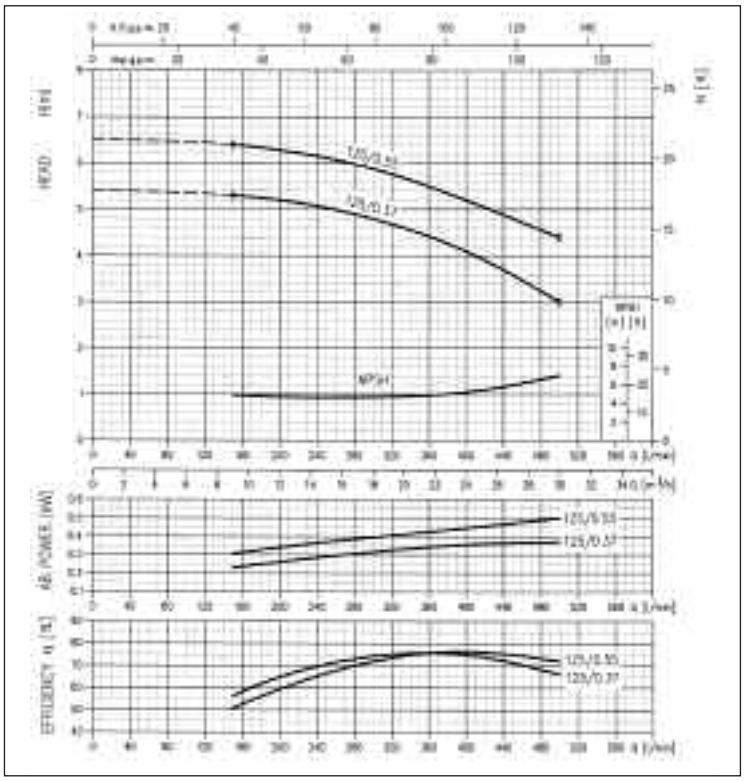


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

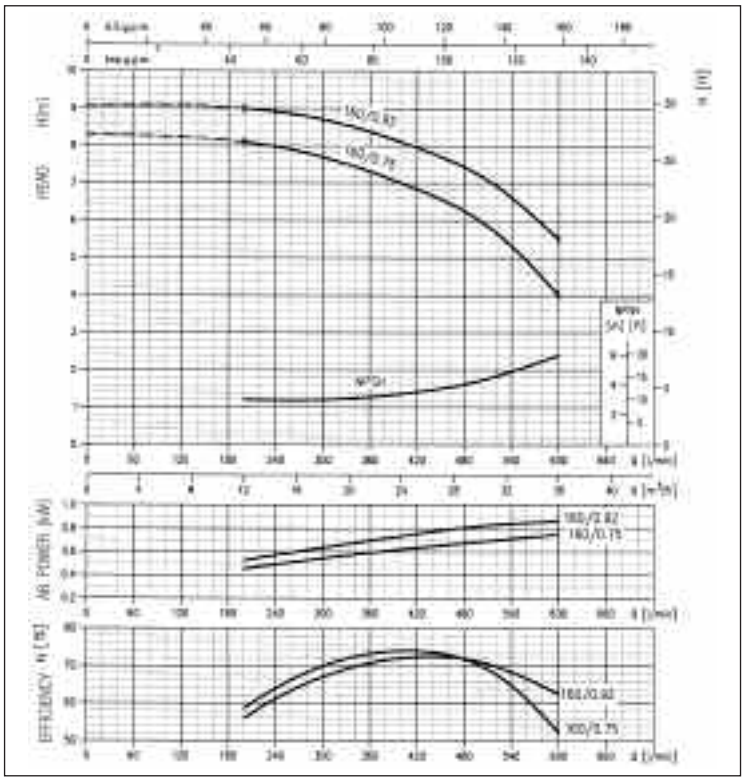
MMD4 50-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



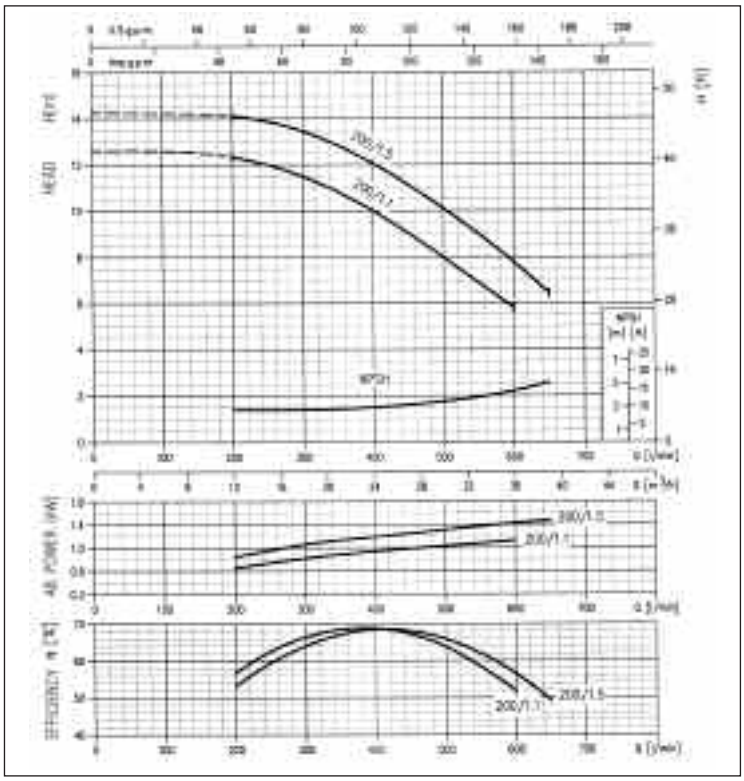
MMD4 50-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



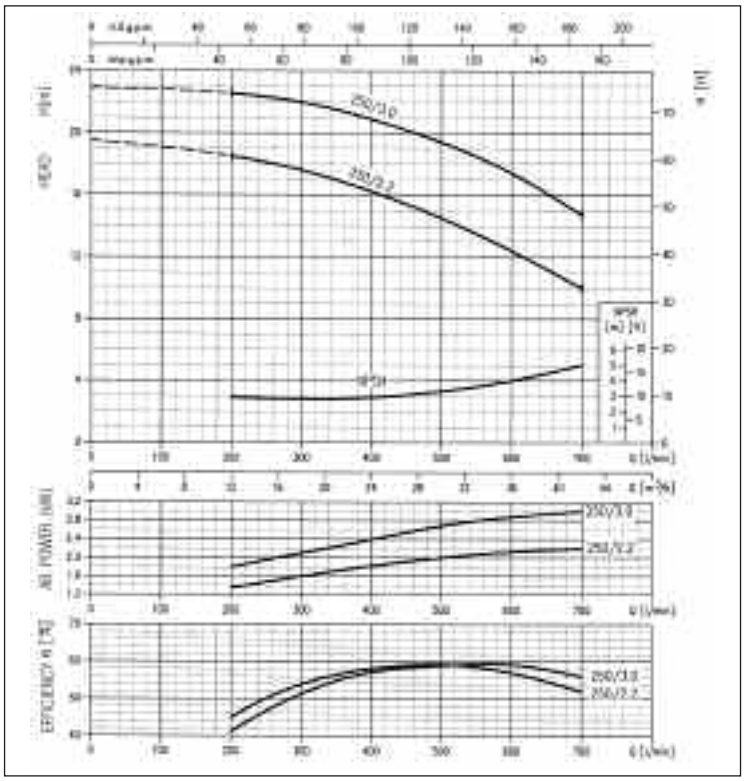
MMD4 50-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 50-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



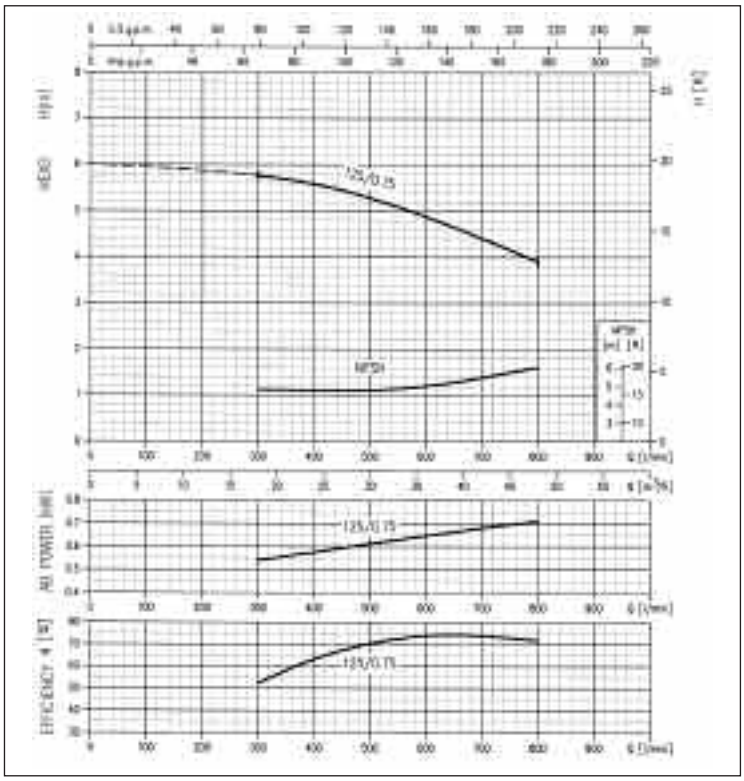
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

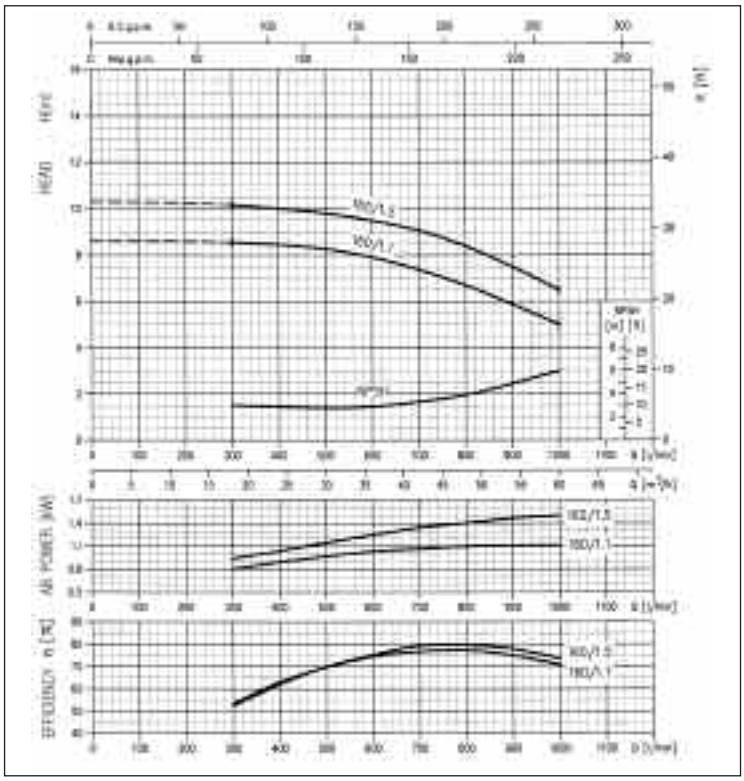
MMD4 65-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



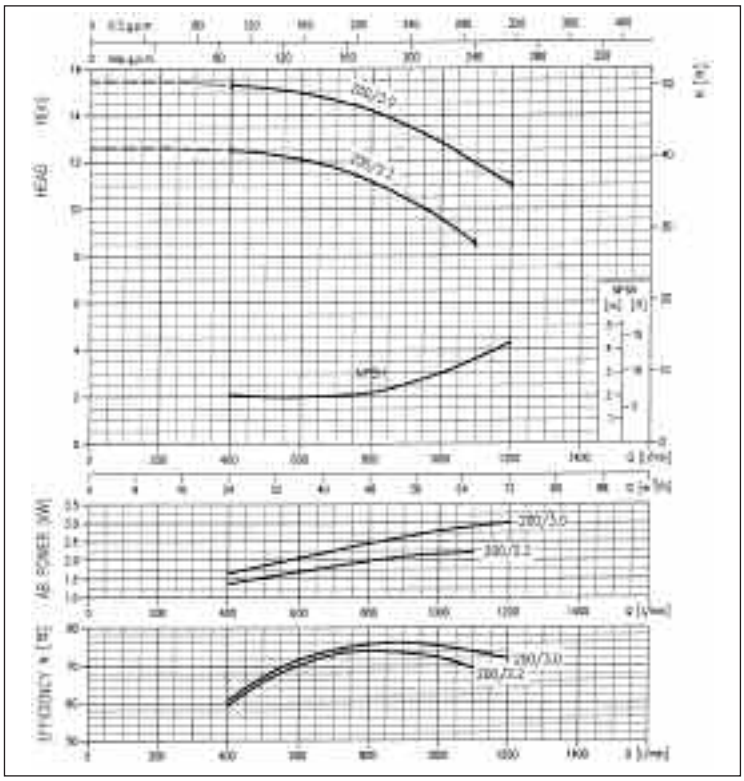
MMD4 65-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



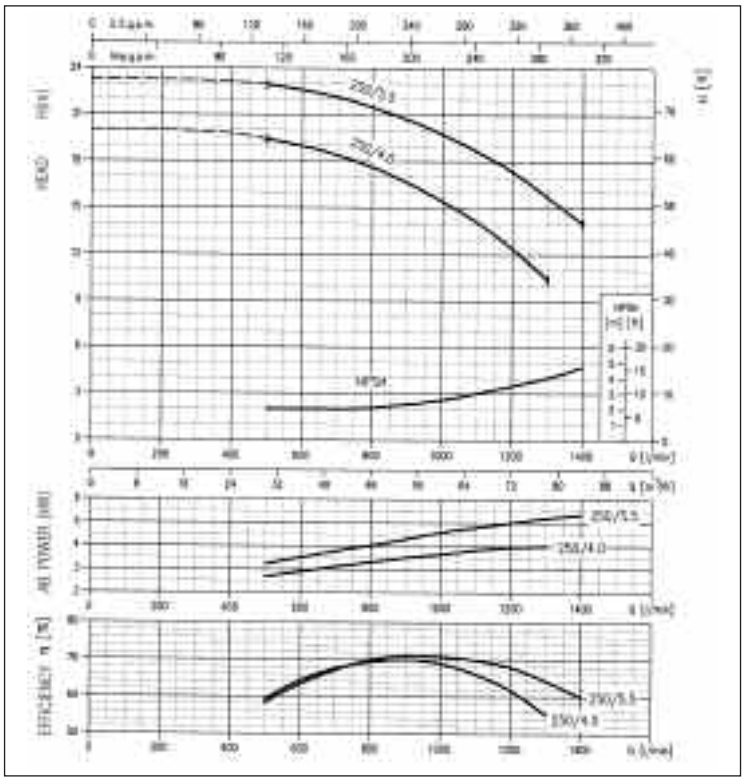
MMD4 65-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 65-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

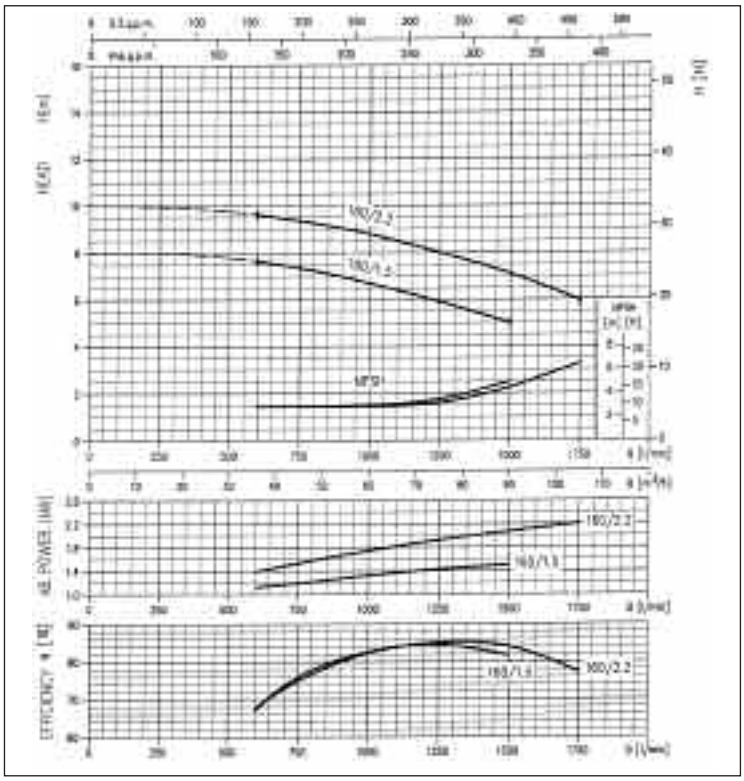


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

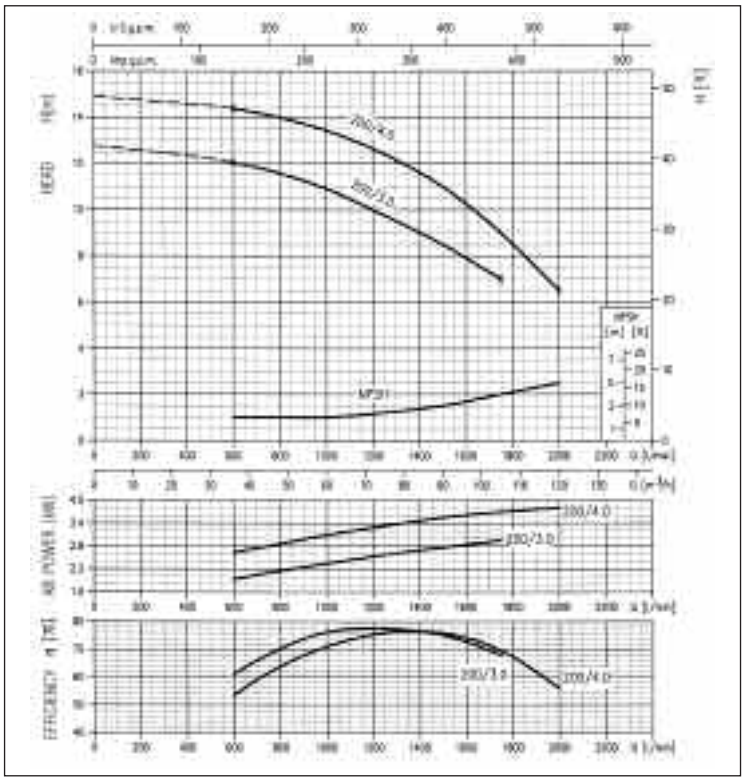
MMD4 80-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



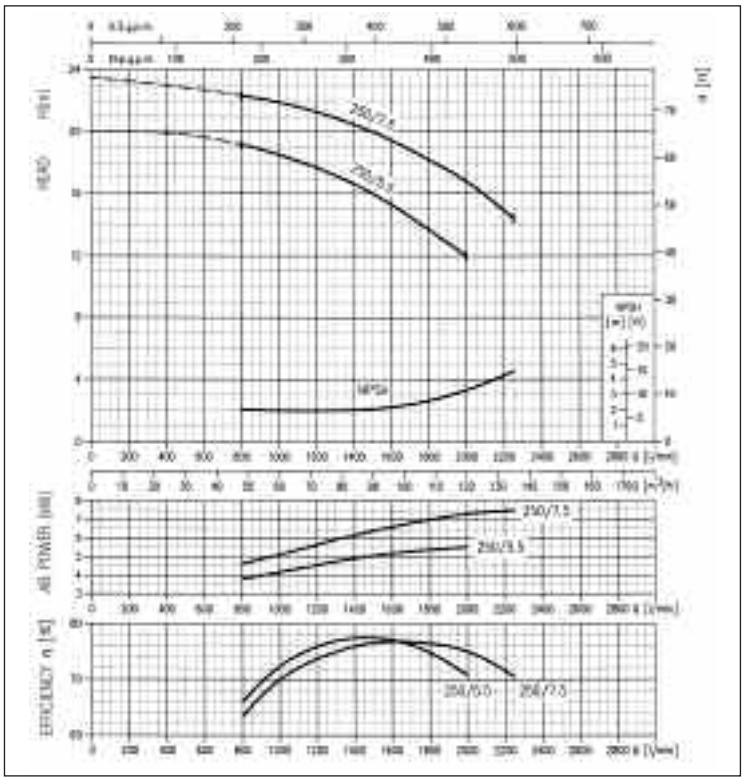
MMD4 80-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 80-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

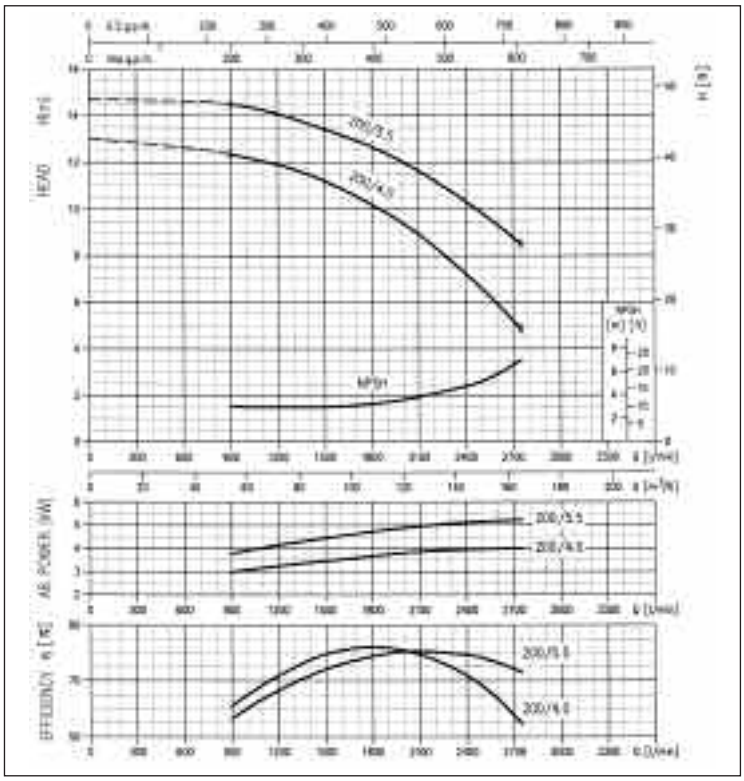


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

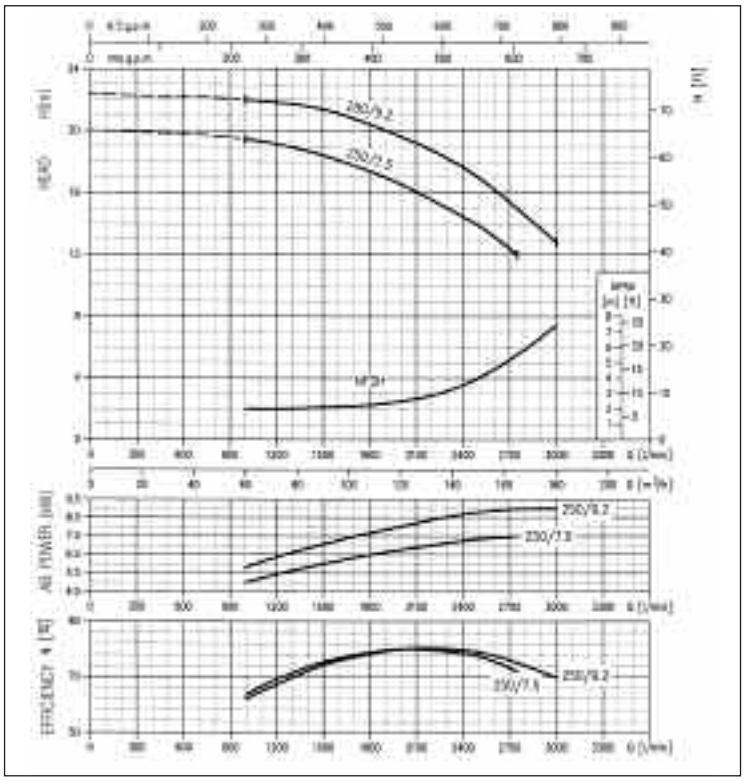
MMD4 100-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



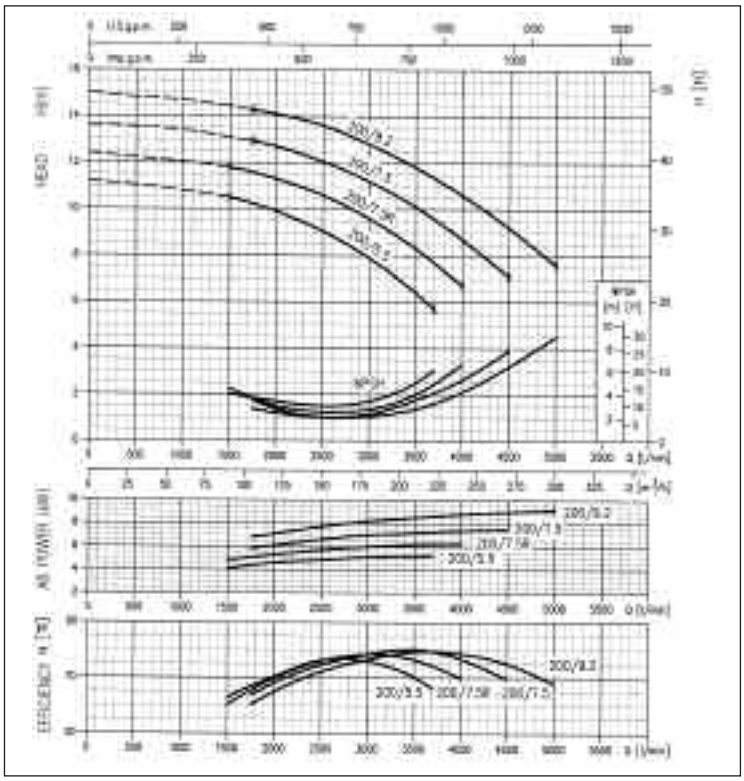
MMD4 100-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



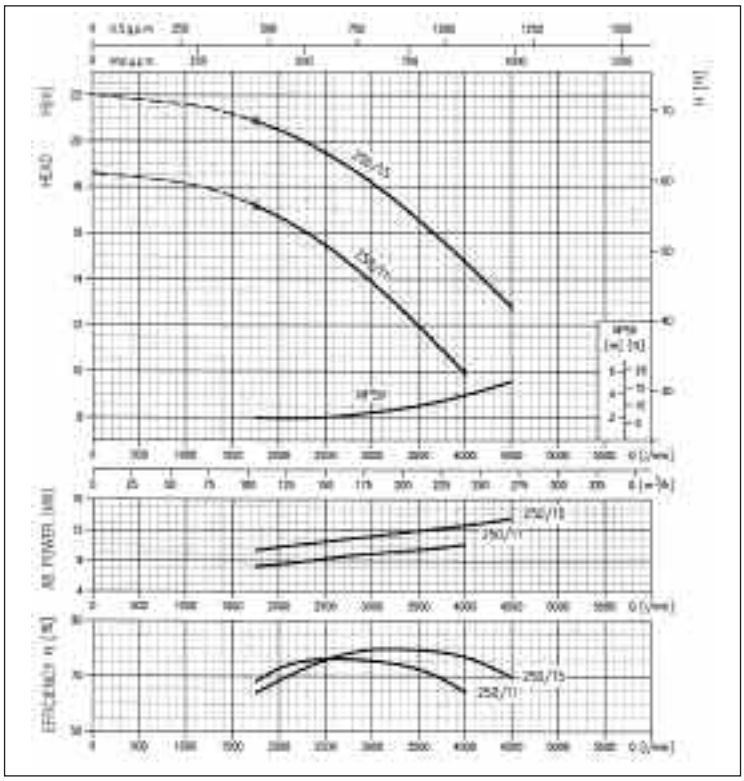
MMD4 125-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 125-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



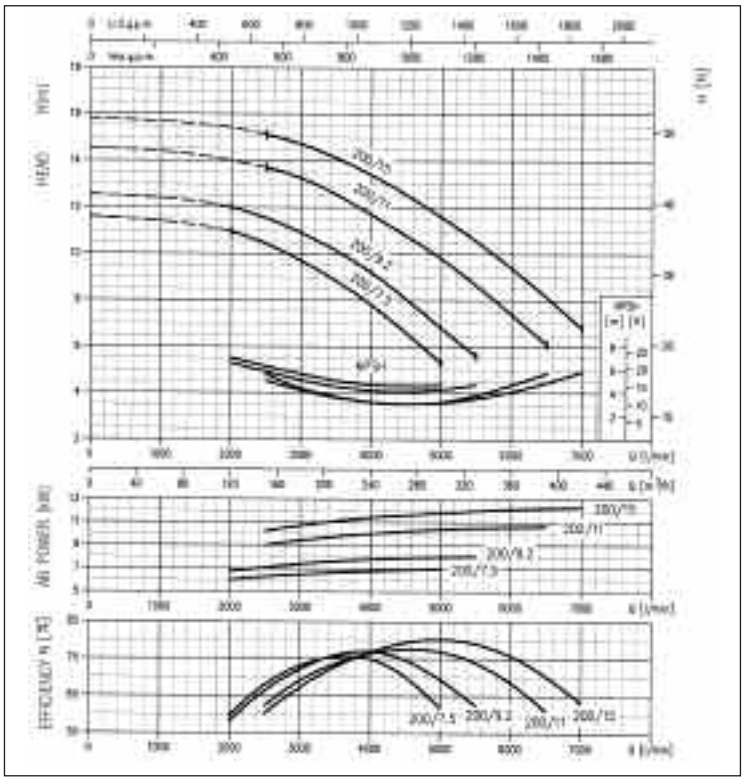
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

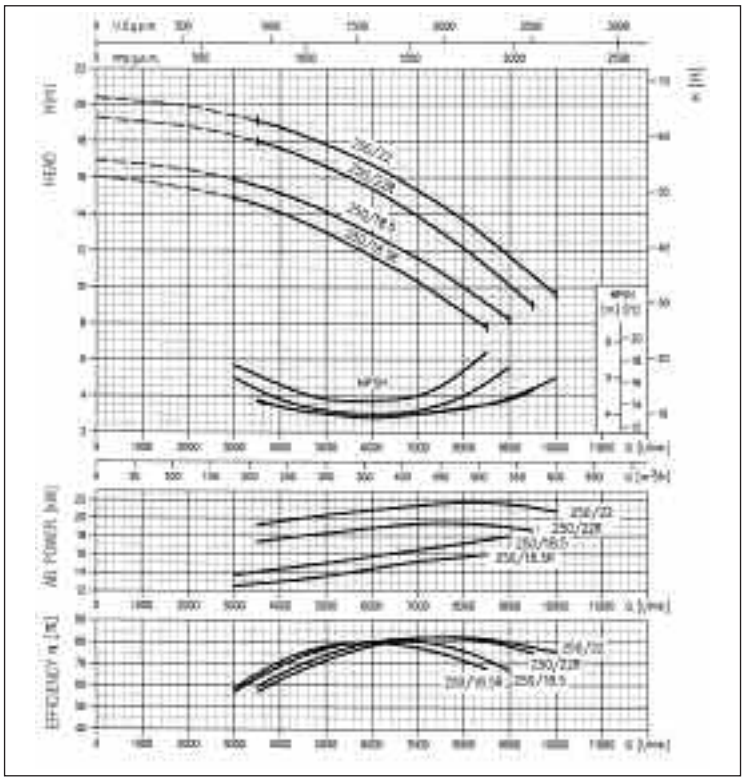
MMD4 150-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 200-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



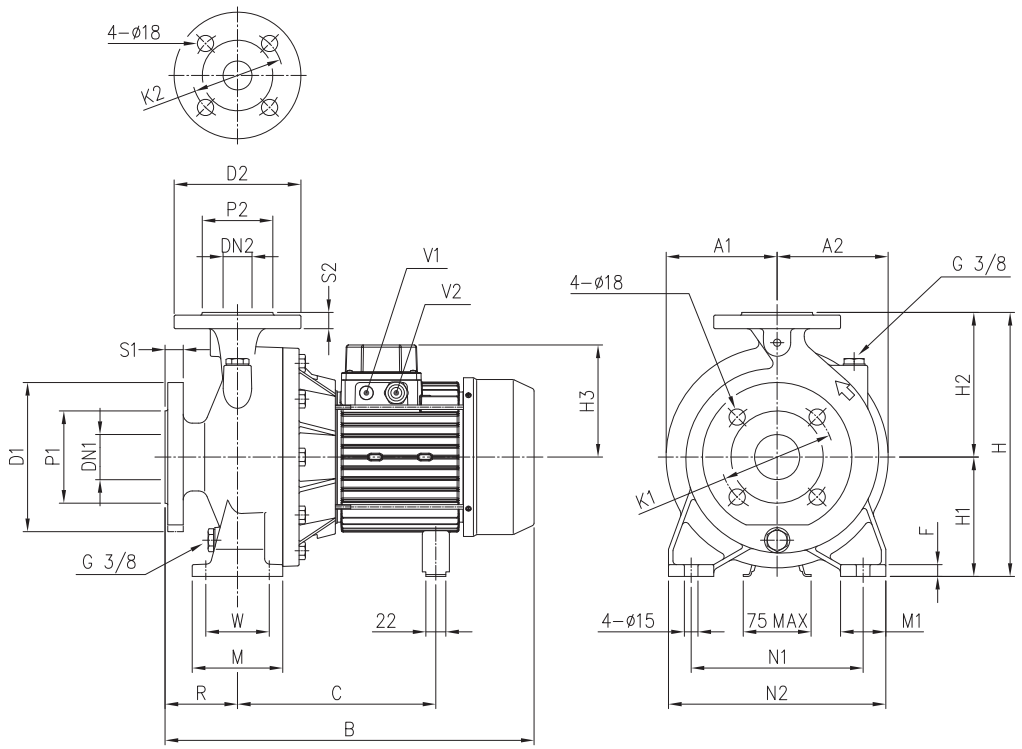
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD DIMENSIONS

2 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]																												Weight
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3 [1]	H3 [2]	R	W	M	M1	N1	N2	A1	A2	B	C	F	V1 [1]	V2 [1]	V2 [2]	[kg]
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

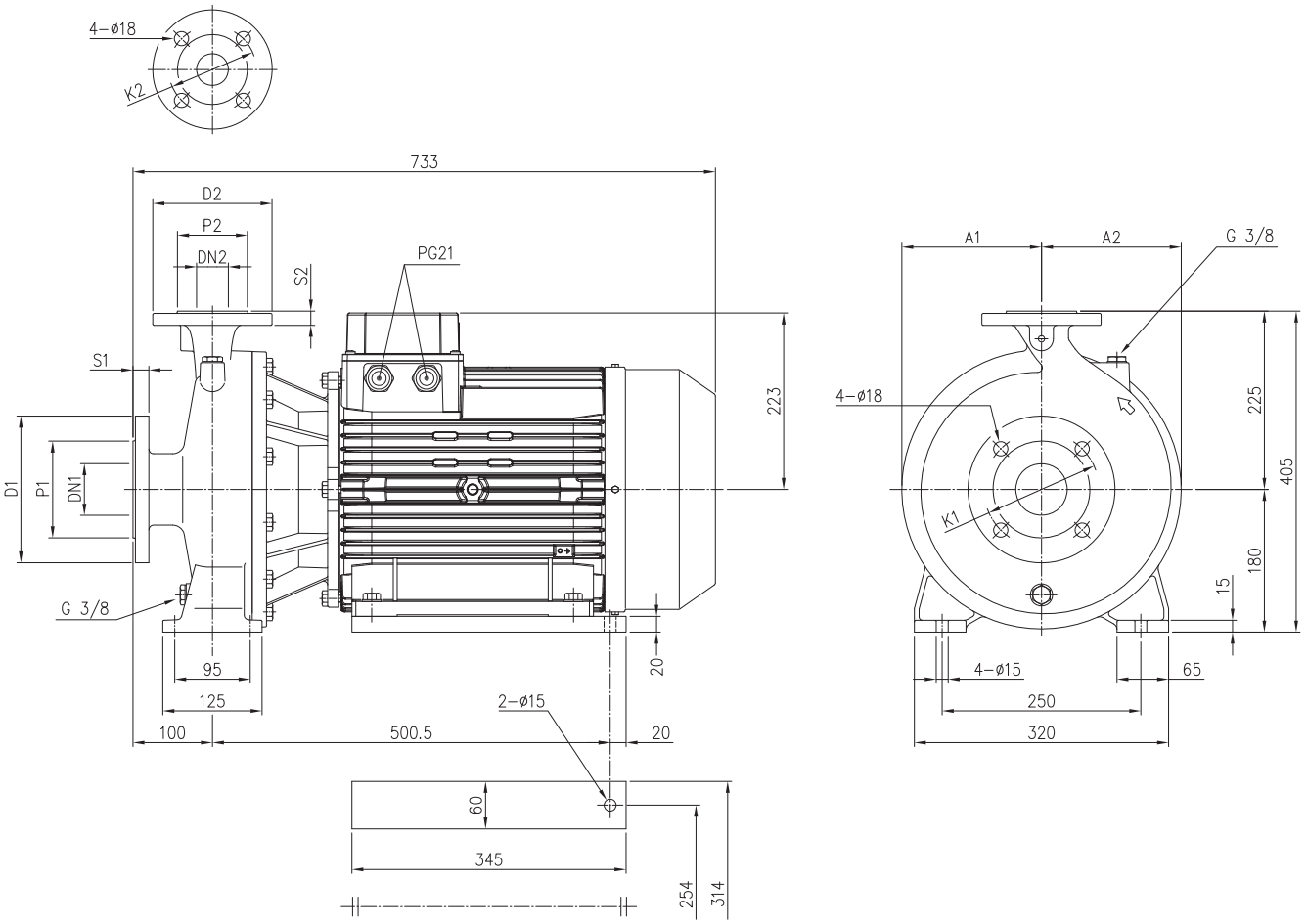
MD - MMD

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	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

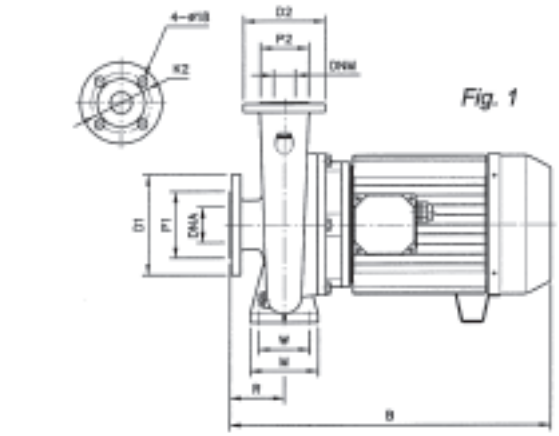
MD - MMD

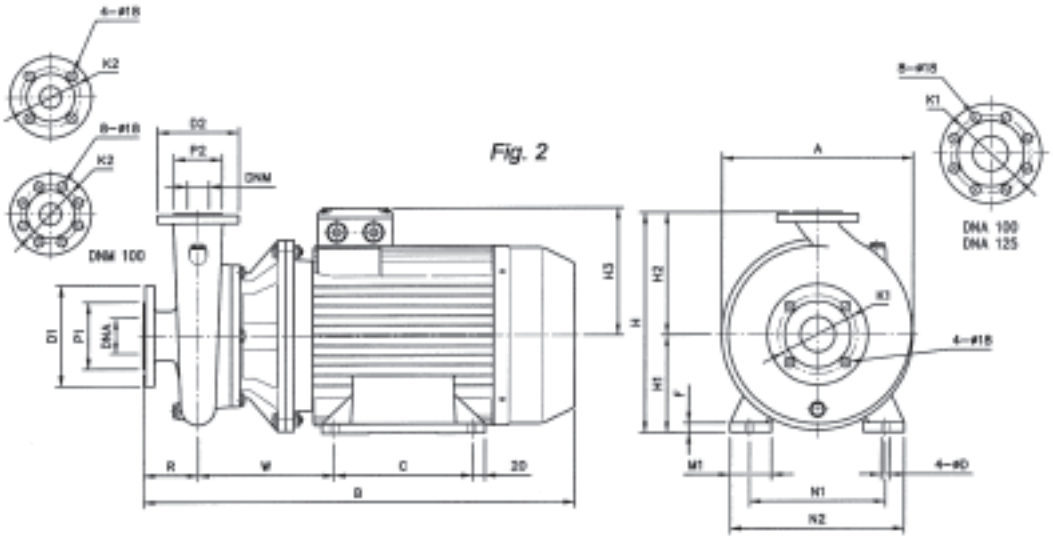
MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD DIMENSIONS

2 Poles





DIMENSIONS TABLE

Model	Dimensions [mm]																								Weight
	Fig.	DNA	P1	K1	D1	DNM	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	D	[kg]
MMD 65-250/22	2	80	138	160	200	65	122	145	185	450	180	250	230	100	293	280	-	320	55	22	365	810	241	14	144,0
MMD 65-250/30	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	-	360	60	24	400	905	305	18	172,0
MMD 65-250/37	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	-	360	60	24	400	905	305	18	190,0
MMD 80-160/10	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	74,0
MMD 80-160/12.5	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	81,5
MMD 80-160/15	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	88,5
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	-	320	55	22	360	835	241	14	132,0
MMD 80-200/22	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	-	320	55	22	360	835	241	14	150,0
MMD 80-200/30	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	-	360	60	24	400	930	305	18	192,0
MMD 80-200/37	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	-	360	60	24	400	930	305	18	210,0
MMD 80-250/37	2	100	158	180	220	80	138	160	200	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	196,0
MMD 100-200/22	2	125	188	210	250	100	158	180	220	480	180	280	230	125	293	318	-	320	55	22	385	835	241	14	160,0
MMD 100-200/30	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	202,0
MMD 100-200/37	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	220,0

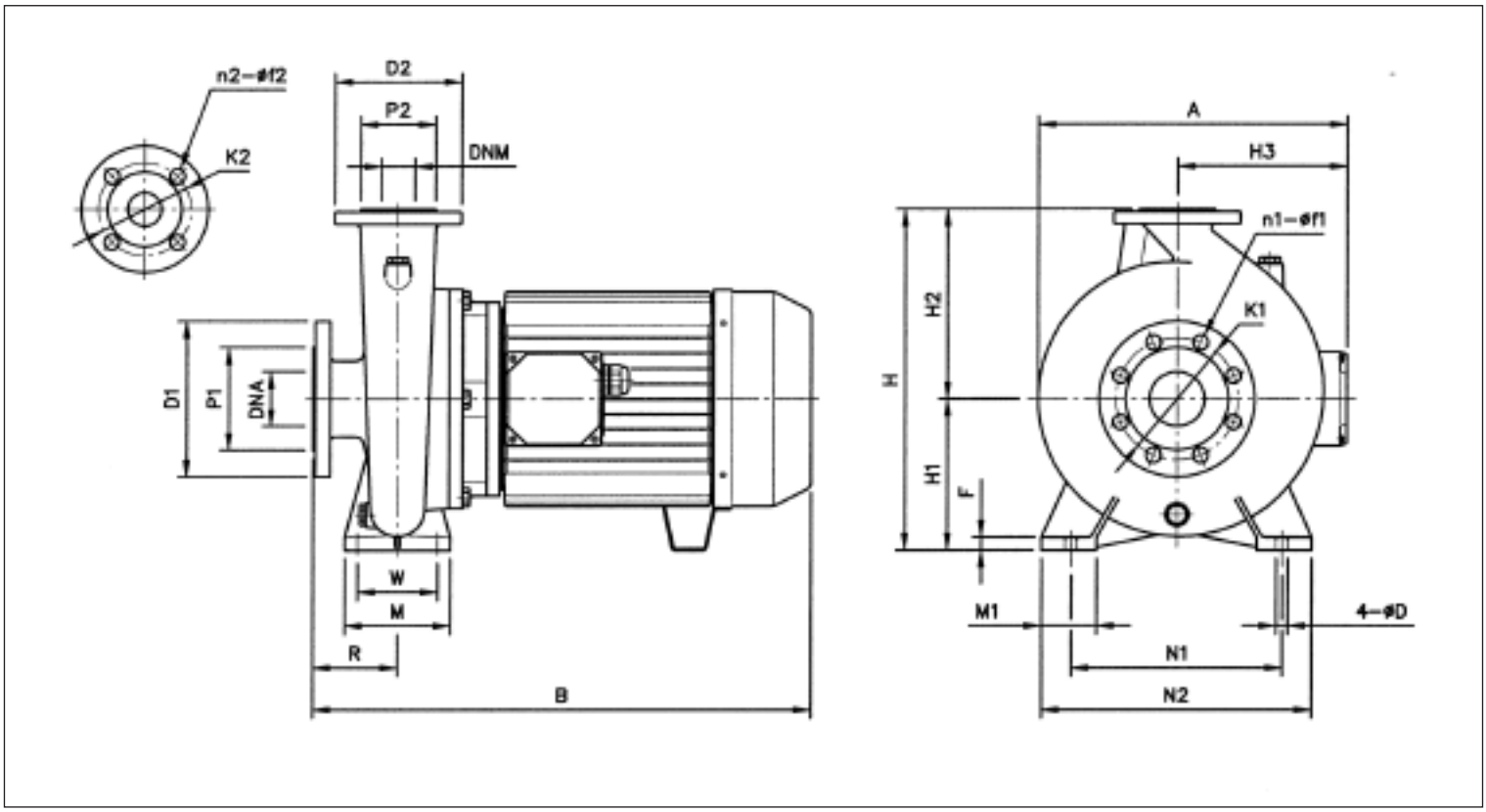
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 DIMENSIONS up to 65

4 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]																										Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	[kg]
MMD4 32-125/0.25R	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19,5
MMD4 32-125/0.25	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19,5
MMD4 32-160/0.37	50	4	18	102	125	165	32	4	18	78	100	140	292	132	160	107	80	70	190	100	240	50	12	240	405	14	23,0
MMD4 32-200/0.75	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	30,0
MMD4 32-200/0.92	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	31,0
MMD4 32-250/1.1	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	47,0
MMD4 32-250/1.5	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	49,0
MMD4 40-125/0.25	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	20,5
MMD4 40-125/0.37	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	21,5
MMD4 40-160/0.55	65	4	18	122	145	185	40	4	18	88	110	150	292	132	160	107	80	70	190	100	240	50	12	230	405	14	25,0
MMD4 40-200/1.1	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	285	485	14	36,0
MMD4 40-200/1.5	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	242	485	14	36,0
MMD4 40-250/1.5	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	149	100	95	250	125	320	65	12	325	485	14	47,5
MMD4 40-250/2.2	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	159	100	95	250	125	320	65	12	325	525	14	54,0
MMD4 50-125/0.37	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	25,0
MMD4 50-125/0.55	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	26,0
MMD4 50-160/0.75	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	32,0
MMD4 50-160/0.92	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	33,0
MMD4 50-200/1.1	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	159	100	70	212	100	265	50	12	285	485	14	38,0
MMD4 50-200/1.5	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	149	100	70	212	100	265	50	12	285	485	14	40,0
MMD4 50-250/2.2	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	57,0
MMD4 50-250/3.0	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	63,0
MMD4 65-125/0.75	80	4	18	138	160	200	65	4	18	122	145	185	340	160	180	118	100	95	212	125	280	65	12	286	445	14	32,0
MMD4 65-160/1.1	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	37,5
MMD4 65-160/1.5	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	40,0
MMD4 65-200/2.2	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	51,0
MMD4 65-200/3.0	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	57,0
MMD4 65-250/4.0	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	159	100	120	280	160	360	80	14	365	535	14	80,0
MMD4 65-250/5.5	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	184	100	120	280	160	360	80	14	365	640	14	90,0

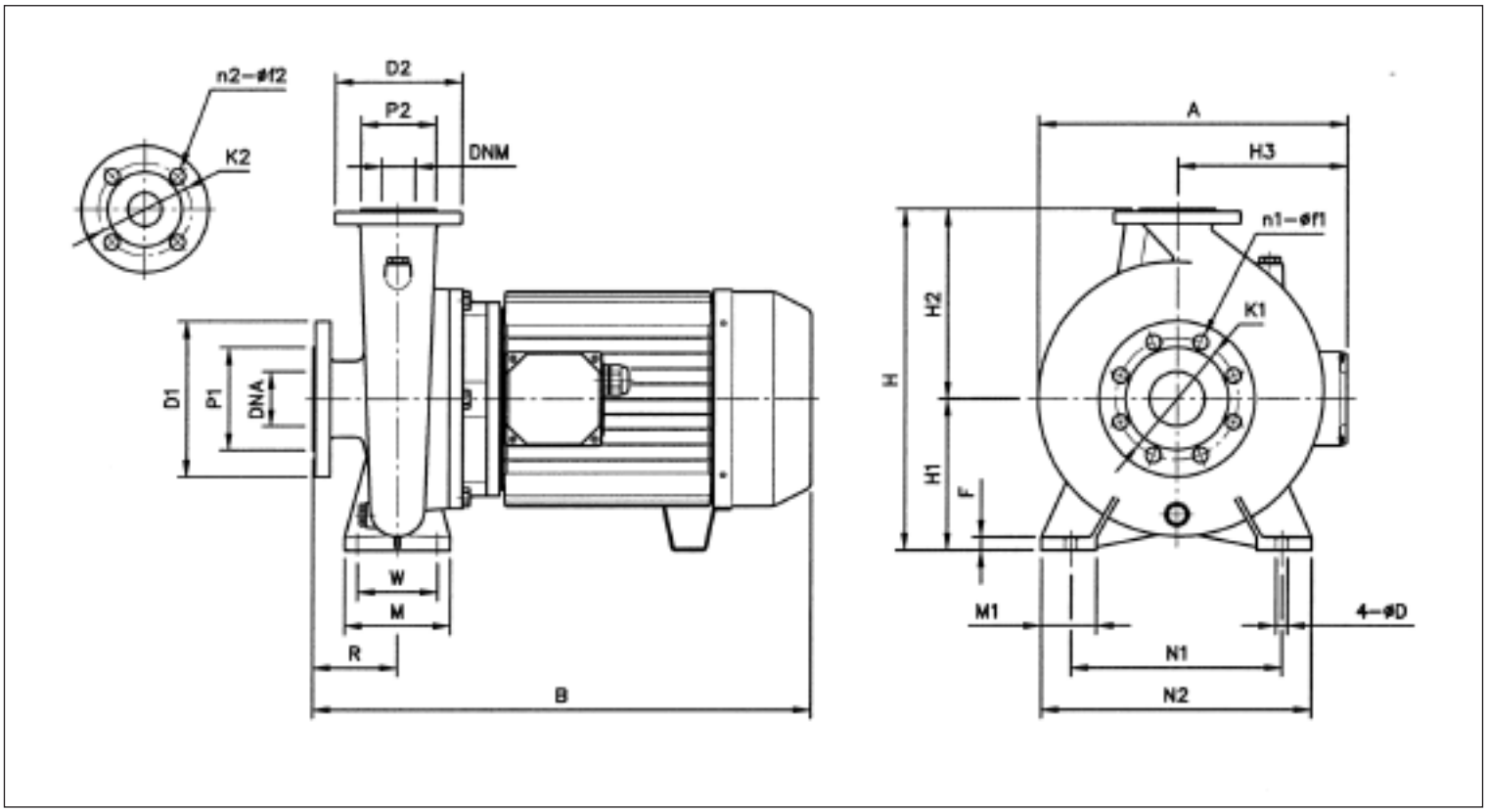
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 DIMENSIONS for the rest of the range

4 Poles



DIMENSIONS TABLE

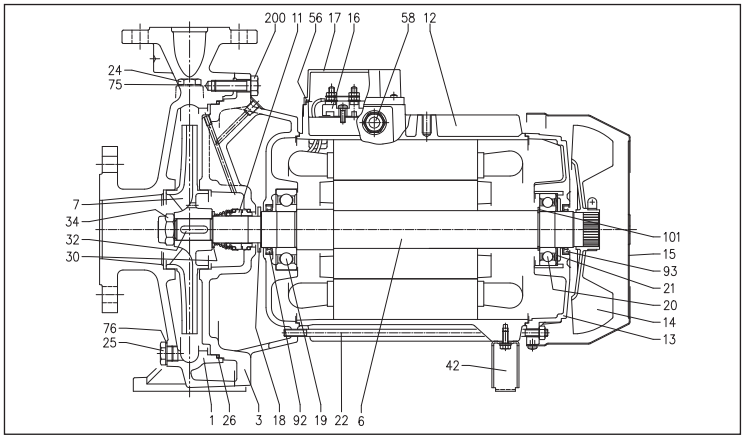
Model	Dimensions [mm]																											Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D1	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	[kg]
MMD4 80-160/1.5	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	149	125	95	250	125	320	65	14	330	510	14	45,0
MMD4 80-160/2.2	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	159	125	95	250	125	320	65	14	330	550	14	51,0
MMD4 80-200/3.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	550	14	66,0
MMD4 80-250/4.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	560	14	73,0
MMD4 80-250/5.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	96,0
MMD4 80-250/7.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	106,0
MMD4 100-200/4.0	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	159	125	120	280	160	360	80	14	385	560	18	78,0
MMD4 100-200/5.5	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	184	125	120	280	160	360	80	14	385	665	18	90,0
MMD4 100-250/7.5	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	112,0
MMD4 100-250/9.2	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	118,0
MMD4 125-200/5.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	124,0
MMD4 125-200/7.5R	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134,0
MMD4 125-200/7.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134,0
MMD4 125-200/9.2	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	770	18	140,0
MMD4 125-250/11	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	700	18	162,0
MMD4 125-250/15	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	855	18	190,0
MMD4 150-200/7.5	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	167,0
MMD4 150-200/9.2	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	173,0
MMD4 150-200/11	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	175,0
MMD4 150-200/15	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	875	24	203,0
MMD4 200-250/18.5R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278,0
MMD4 200-250/18.5	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278,0
MMD4 200-250/22R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300,0
MMD4 200-250/22	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300,0

MD - MMD

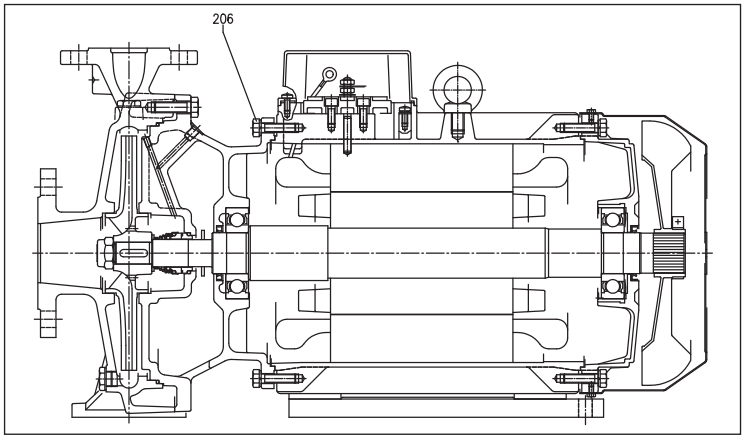
MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD SECTIONAL VIEW up to13 kW



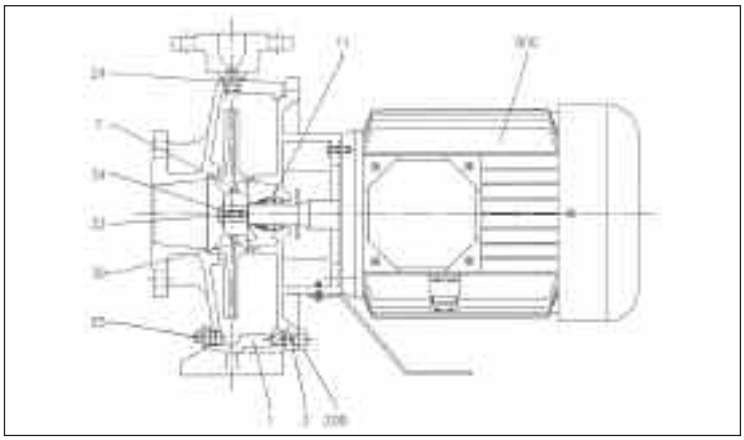
MD SECTIONAL VIEW from 15 kW and over (excluding 65-160/15)



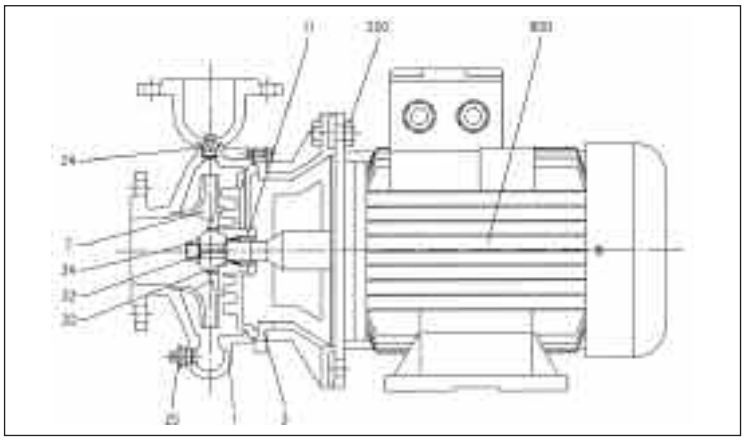
MATERIALS TABLE

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			

MMD-MMD4 SECTIONAL VIEW up to MEC 132



MMD-MMD4 SECTIONAL VIEW from MEC 160 and over



MATERIALS TABLE

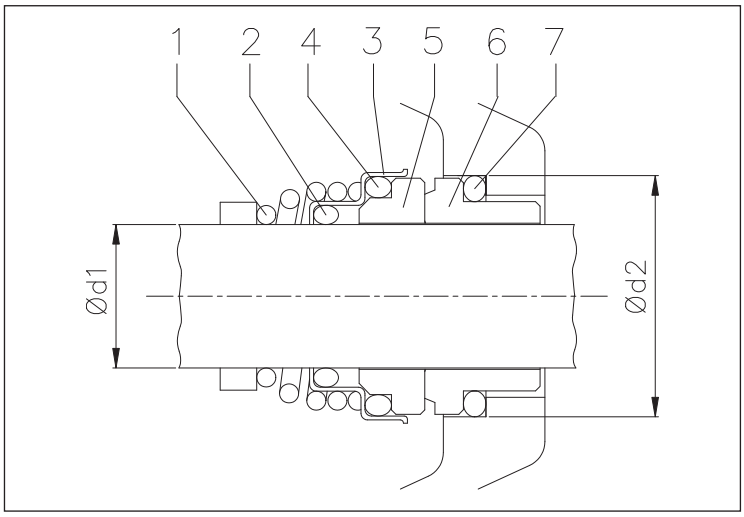
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-200-EN 1561	030	Spacer	Stainless steel
003	Motor support	Cast iron EN-GJL-200-EN 1561	032	Key	Stainless steel
007	Impeller	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Stainless steel
011	Mechanical seal	SiC/SiC/EPDM	200	Screw (pump body)	Stainless steel
024	Filler cap	Stainless steel	800	Motor	-
025	Drain plug	Stainless steel			

MD - MMD

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	Material		
	H version	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

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD ELECTRIC DATA TABLE

2 Poles

Model	P_2		Single phase Capacitor		P_1		Absorbed Current [A]			
	[HP]	[kW]	µF	V_c	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V	Three phase 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

MMD ELECTRIC DATA TABLE

2 Poles

Model	P_2		Absorbed Current [A] Three phase	
	[HP]	[kW]	400V	690V
MMD 65-250/22	30	22	44,5	25,7
MMD 65-250/30	40	30	58	33,5
MMD 65-250/37	55	37	71	41,0
MMD 80-160/10	13,6	10	22,5	13,0
MMD 80-160/12.5	17	12,5	27	15,6
MMD 80-160/15	20	15	32	18,5
MMD 80-200/18.5	25	18,5	38	21,9
MMD 80-200/22	30	22	44,5	25,7
MMD 80-200/30	40	30	58	33,5
MMD 80-200/37	55	37	71	41,0
MMD 80-250/37	55	37	71	41,0
MMD 100-200/22	30	22	44,5	25,7
MMD 100-200/30	40	30	58	33,5
MMD 100-200/37	55	37	71	41,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 ELECTRIC DATA TABLE

4 Poles

Model	P_2		Absorbed Current [A] Three phase		
	[HP]	[kW]	230V	400V	690V
MMD4 32-125/0.25 R	0,33	0,25	1,6	0,9	-
MMD4 32-125/0.25	0,33	0,25	1,6	0,9	-
MMD4 32-160/0.37	0,55	0,37	2,3	1,3	-
MMD4 32-200/0.75	1	0,75	3,9	2,25	-
MMD4 32-200/0.92	1,25	0,92	4,7	2,7	-
MMD4 32-250/1.1	1,5	1,1	4,85	2,8	-
MMD4 32-250/1.5	2	1,5	6,6	3,8	-
MMD4 40-125/0.25	0,33	0,25	1,6	0,9	-
MMD4 40-125/0.37	0,55	0,37	2,3	1,3	-
MMD4 40-160/0.55	0,75	0,55	2,8	1,6	-
MMD4 40-200/1.1	1,5	1,1	4,85	2,8	-
MMD4 40-200/1.5	2	1,5	6,6	3,8	-
MMD4 40-250/1.5	2	1,5	6,6	3,8	-
MMD4 40-250/2.2	3	2,2	10	5,8	-
MMD4 50-125/0.37	0,55	0,37	2,3	1,3	-
MMD4 50-125/0.55	0,75	0,55	2,8	1,6	-
MMD4 50-160/0.75	1	0,75	3,9	2,25	-
MMD4 50-160/0.92	1,25	0,92	4,7	2,7	-
MMD4 50-200/1.1	1,5	1,1	4,85	2,8	-
MMD4 50-200/1.5	2	1,5	6,6	3,8	-
MMD4 50-200/2.2	3	2,2	10	5,8	-
MMD4 50-250/3	4	3	13,5	7,8	-
MMD4 65-125/0.75	1	0,75	3,9	2,25	-
MMD4 65-160/1.1	1,5	1,1	4,85	2,8	-
MMD4 65-160/1.5	2	1,5	6,6	3,8	-
MMD4 65-200/2.2	3	2,2	10	5,8	-
MMD4 65-200/3.0	4	3	13,5	7,8	-
MMD4 65-250/4	5,5	4	16,1	9,3	-
MMD4 65-250/5.5	7,5	5,5	-	12	6,9
MMD4 80-160/1.5	2	1,5	6,6	3,8	-
MMD4 80-160/2.2	3	2,2	10	5,8	-
MMD4 80-200/3	4	3	13,5	7,8	-
MMD4 80-250/4	5,5	4	16,1	9,3	-
MMD4 80-250/5.5	7,5	5,5	-	12	6,9
MMD4 80-250/7.5	10	7,5	-	15,6	9,0
MMD4 100-200/4	5,5	4	16,1	9,3	-
MMD4 100-200/5.5	7,5	5,5	-	12	6,9
MMD4 100-250/7.5	10	7,5	-	15,6	9,0
MMD4 100-250/9.2	12,5	9,2	-	19,7	11,4
MMD4 100-200/5.5	7,5	5,5	-	12	6,9
MMD4 125-200/7.5 R	10	7,5	-	15,6	9,0
MMD4 125-200/7.5	10	7,5	-	15,6	9,0
MMD4 125-200/9.2	12,5	9,2	-	19,7	11,4
MMD4 125-250/11	15	11	-	25	14,4
MMD4 125-250/15	20	15	-	30,4	17,6
MMD4 150-200/7.5	10	7,5	-	15,6	9,0
MMD4 150-200/9.2	12,5	9,2	-	19,7	11,4
MMD4 150-200/11	15	11	-	25	14,4
MMD4 150-200/15	20	15	-	30,4	17,6
MMD4 150-200/18.5 R	25	18,5	-	37,1	21,4
MMD4 200-250/18.5	25	18,5	-	37,1	21,4
MMD4 200-250/22 R	30	22	-	42,6	24,6
MMD4 200-250/22	30	22	-	42,6	24,6