

CENTRIFUGAL PUMPS according to DIN 24255 standard

End suction centrifugal pumps in accordance with DIN 24255 made of cast iron, applications in water boosting, heating system, air-conditioning, washing systems and many other industrial applications.



APPLICATION

- **Civil/Domestic Uses:**
Water supply systems
Pressure boosting
Air-conditioning and heating

- **Agriculture:**
Sprinkler or flow irrigation

- **Industrial:**
Water supply systems
Washing plants
Transfer of non-aggressive liquids

TECHNICAL CHARACTERISTICS

Back pull-out construction permits assembly and replacement of the impeller, shaft and bearings without removing the casing.

The sturdy structure ensures maximum resistance to the possible misalignment and distortion of pipes.

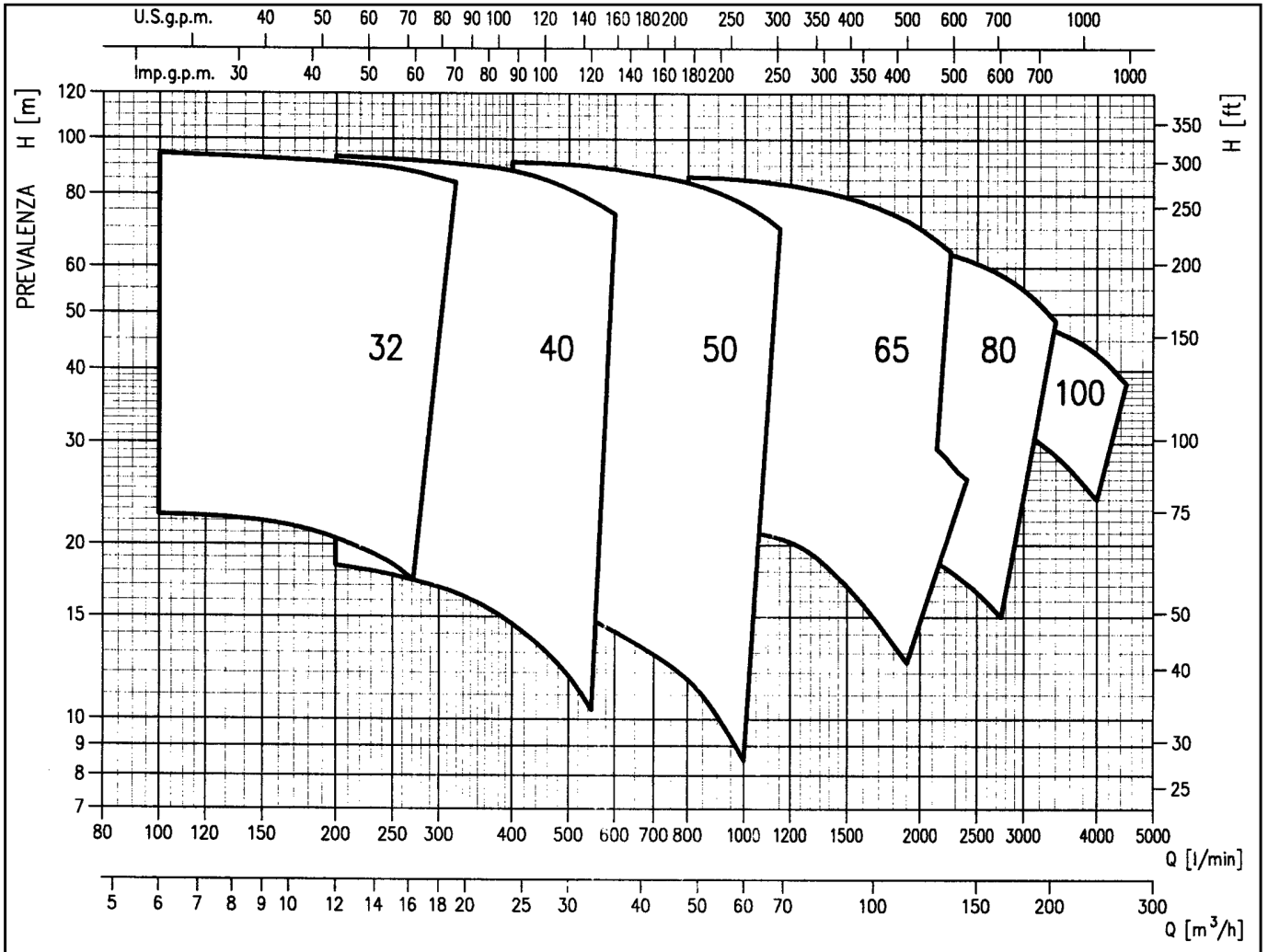
TECHNICAL DATA

- Asynchronous 2 pole motor
- Insulation: Class F
- Protection degree: IP55
- 1~230V \pm 10% 50Hz, 3~230/400V \pm 10% 50Hz up to 4kW included, 400/690V \pm 10% 3.5kW and above
- Permanent split capacitor and automatic thermal overload protection for single-phase version
- Thermal protection to be provided by the user for three-phase version

SPECIFICATIONS

PUMP		
Liquid handle	Type of liquid	Clean water
	Max temperature [°C]	90°C (MD); 130°C (MMD)
Flanges	UNI 2236 - UNI 2223-29 PN 10	
Counter flanges (on request)	UNI 2247	
Construction	Impeller	Closed centrifugal type
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe connection	Suction	Flange to DIN 2532 (50mm-65mm-80mm)
	Discharge	Flange to DIN 2532 (32mm-40mm-50mm-65mm)
Material	Casing	Cast iron
	Impeller	Cast iron - Bronze
	Casing cover	Cast iron
	Shaft seal	Ceramic SiC/SiC/EPDM (MMD)
	Shaft	AISI 304 (Part in contact with liquid/AISI 406 per MMD)
	Bracket	Cast iron
Applicable standard of test		ISO 9906 Annex A

SELECTION CHART
MD/MMD 2 pole

 2900 min⁻¹

 R.P.M. ≈ 2900 min⁻¹

Test fluid : Clean water 20°C

Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE TABLE
MD/MMD 2 pole

Model	Motor		Q=Capacity																						
	kW	HP	l/min	0	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400	
			m ³ /h	0	6	12	15	17	19	24	33	36	40	48	60	66	69	72	84	114	120	132	138	144	
		H=Total head [m]																							
MD 32-125/1.1*	1.1	1.5	23	22.5	20.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.5*	1.5	2	24	23.5	21.5	19.7	18.5	16.6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/1.5*	1.5	2	28	27	24	22	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-160/2.2*	2.2	3	35.5	34.5	32	30	28.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/3.0	3	4	43	41	36.5	33	30.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/4.0	4	5.5	52	50.5	47	44.5	42.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/5.5	5.5	7.5	58	57	54	51	49	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/7.5	7.5	10	71	70	67	64	62	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/9.2	9.2	12.5	84	83	80	78	76	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/11	11	15	95	94	91	89	87	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/1.5*	1.5	2	20	19.5	18.4	17.7	17.2	16.5	14.6	10.3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-125/2.2*	2.2	3	25.5	25	23.5	23	22.5	22	20.5	16.9	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/3.0	3	4	31.5	30.5	29	28	27.5	26.5	25	21	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/4.0	4	5.5	39	38	36.5	36	33.5	35	33	29.5	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/5.5	5.5	7.5	48.5	48	47	46	45.5	44.5	42.5	37.5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/7.5	7.5	10	58	57.5	56.5	55.5	55	54.5	52.5	47.5	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/11	11	15	74.5	-	73	72	71.5	70	66.5	58.5	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/13	13	17.5	85.5	-	84	83.5	82.5	81.5	78	69	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/15	15	20	94.5	-	93	92	91.5	90.5	88	78	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/2.2*	2.2	3	17.5	-	-	-	-	-	16	14.8	14.3	13.5	11.7	8.5	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/3.0	3	4	21	-	-	-	-	-	19.5	18.6	18.2	17.6	16.1	13	-	-	-	-	-	-	-	-	-	-	-
MD 50-125/4.0	4	5.5	25.5	-	-	-	-	-	24	23	23	22	21	17.8	16	-	-	-	-	-	-	-	-	-	-
MD 50-160/5.5	5.5	7.5	33.5	-	-	-	-	-	32.5	31	30.5	30	28	24.5	22.5	-	-	-	-	-	-	-	-	-	-
MD 50-160/7.5	7.5	10	39	-	-	-	-	-	38	37	36.5	35.5	34	31	29	28	27	-	-	-	-	-	-	-	-
MD 50-200/9.2	9.2	12.5	50	-	-	-	-	-	48	46	45	44	41	36	33	-	-	-	-	-	-	-	-	-	-
MD 50-200/11	11	15	56	-	-	-	-	-	54.5	53	52	51	48.5	43.5	40.5	39	37	-	-	-	-	-	-	-	-
MD 50-250/15	15	20	71	-	-	-	-	-	69	67	66	64	60.5	52.5	47	-	-	-	-	-	-	-	-	-	-
MD 50-250/18.5	18.5	25	82	-	-	-	-	-	80	78.5	77.5	76	72.5	65	60	57	-	-	-	-	-	-	-	-	-
MD 50-250/22	22	30	93	-	-	-	-	-	91	89.5	88.5	87	84	77	72.5	70	-	-	-	-	-	-	-	-	-
MD 65-125/5.5	5.5	7.5	24	-	-	-	-	-	-	-	-	23.2	23	21.5	22.5	21.5	20.5	20	18.2	12.5	-	-	-	-	-
MD 65-125/7.5	7.5	10	27.5	-	-	-	-	-	-	-	-	26.5	26	25.5	24.5	24	23.5	23	21.5	16.3	15	-	-	-	-
MD 65-160/11	11	15	34.5	-	-	-	-	-	-	-	-	-	34	33.5	33	32.5	32	32	30.5	26.5	25.5	23	22	-	-
MD 65-160/15	15	20	39	-	-	-	-	-	-	-	-	-	-	38	37.5	37	36.5	35	31	30.5	28.5	28.5	27	26	
MD 65-200/18.5	18.5	25	55	-	-	-	-	-	-	-	-	-	-	53.5	52.5	51.5	51	50.5	48.5	42	40.5	37	-	-	
MD 65-200/22	22	30	61	-	-	-	-	-	-	-	-	-	-	59.5	58.5	58	57.5	57	55.5	50	49	46	-	-	

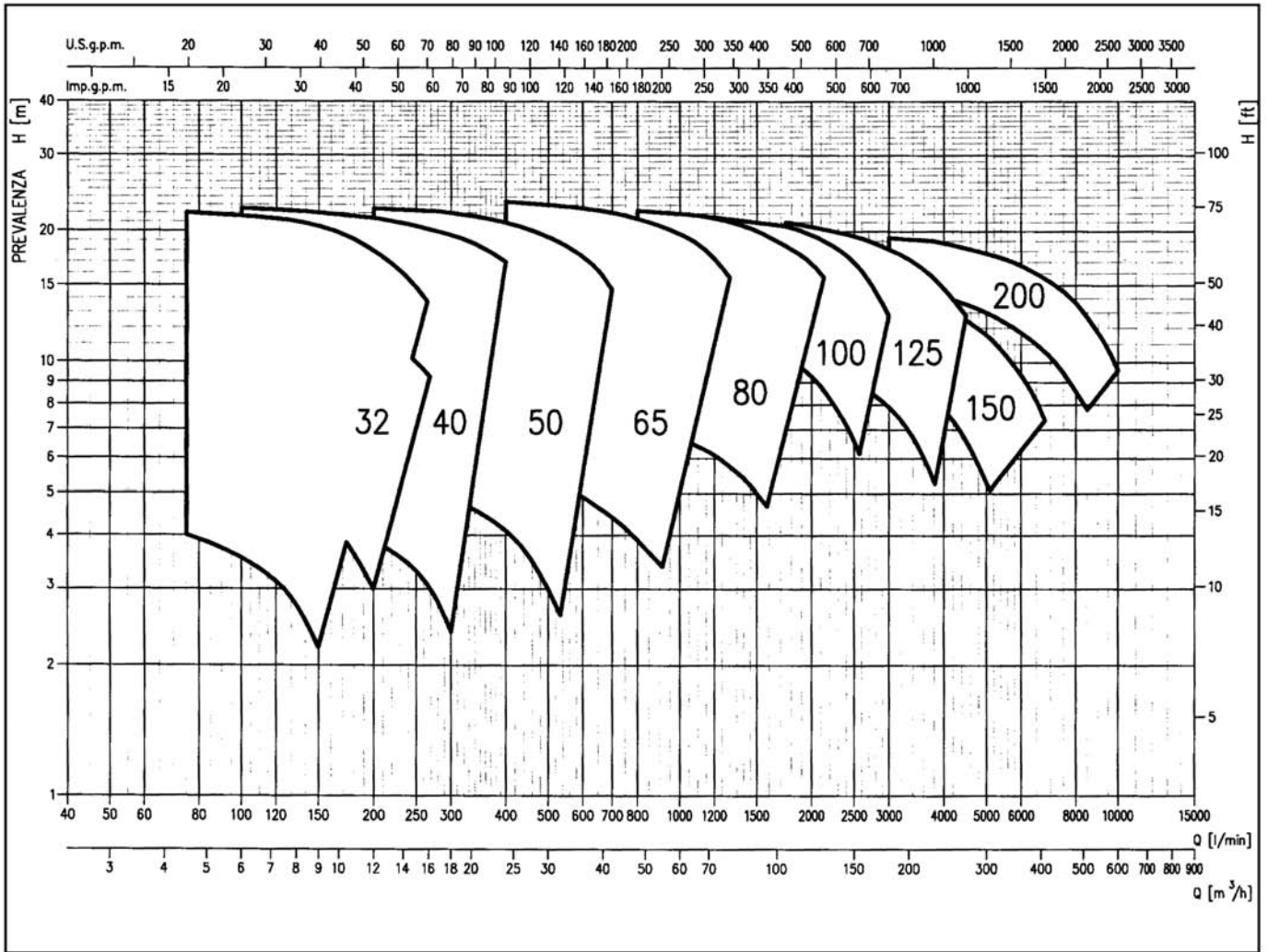
* Single-phase version available

Model	Motor		Q=Capacity														
	kW	HP	l/min	0	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500
			m ³ /h	0	48	60	75	90	105	120	135	150	165	180	210	240	270
		H=Totalhead [m]															
MMD 65-250/22	22	30	65	64	63	61	57	53	-	-	-	-	-	-	-	-	-
MMD 65-250/30	30	40	78	77	76	74	70	66	60	53*	-	-	-	-	-	-	-
MMD 65-250/37	37	55	86.5	86	85	83	79	75	70	64*	-	-	-	-	-	-	-
MMD 80-160/10	10	13.6	24.8	-	24	23	22	21	19.5	18	16.5	15*	-	-	-	-	-
MMD 80-160/12.5	12.5	17	29.5	-	28.5	28	27	26	24.5	23	21.5	20	18.5*	-	-	-	-
MMD 80-160/15	15	20	35	-	34	33.3	32.5	31.8	31	29	27.5	26	24.3	-	-	-	-
MMD 80-200/18.5	18.5	25	42.2	-	42	41	40	38.5	37	35	33	30.5	28	-	-	-	-
MMD 80-200/22	22	30	47.2	-	47	46.5	45.5	44.5	43	41	39	37	34	-	-	-	-
MMD 80-200/30	30	40	55.5	-	55	54	53	52	51	49	47	45	43	37	-	-	-
MMD 80-200/37	37	55	57.5	-	57	56.8	56.5	56	55	54	52.5	51	48	42	-	-	-
MMD 80-250/37	37	55	68.5	-	-	67.5	67	66.2	65	63.3	61	58.3	55	47	-	-	-
MMD 100-200/22	22	30	40	-	-	-	38.5	38	37	36	34.5	33	31.5	28	24	-	-
MMD 100-200/30	30	40	48	-	-	-	47	46.3	45.6	44.8	43.7	42.4	41	38	34.6*	30**	-
MMD100-200/37	37	55	54.2	-	-	-	53.7	53.3	53	52	51	50	49	46	43*	38**	-

* Suction head not to exceed 2m

** Positive 1m suction head

SELECTION CHART
MMD 4 pole

 1450 min⁻¹

 R.P.M. ≈ 1450 min⁻¹

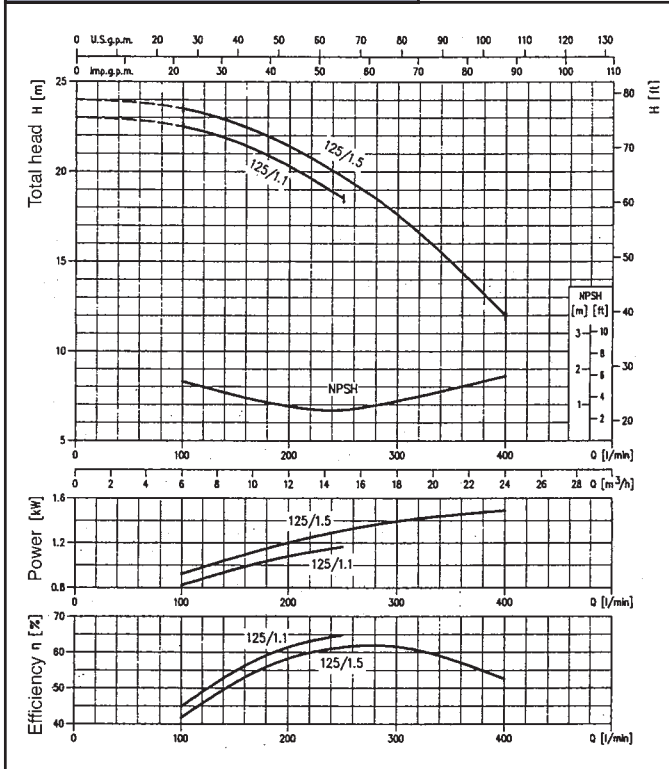
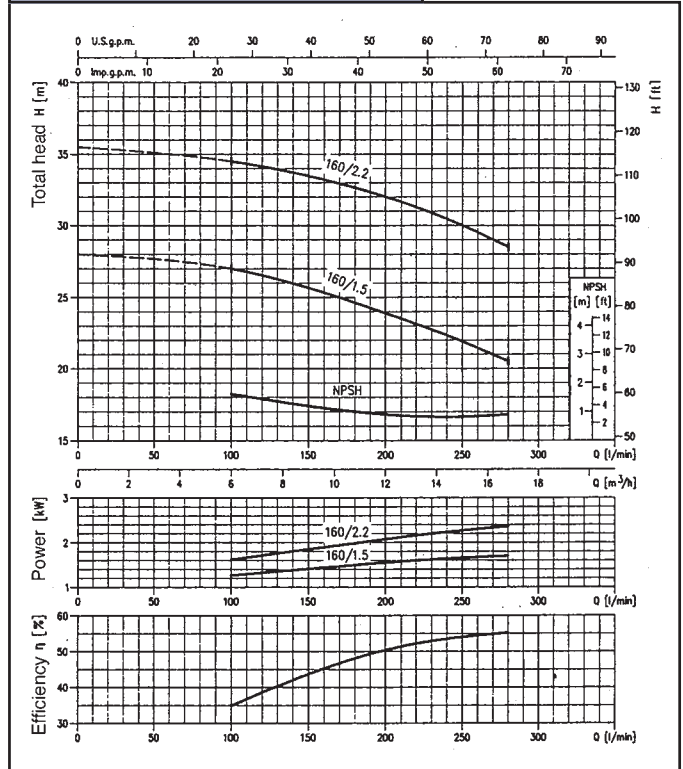
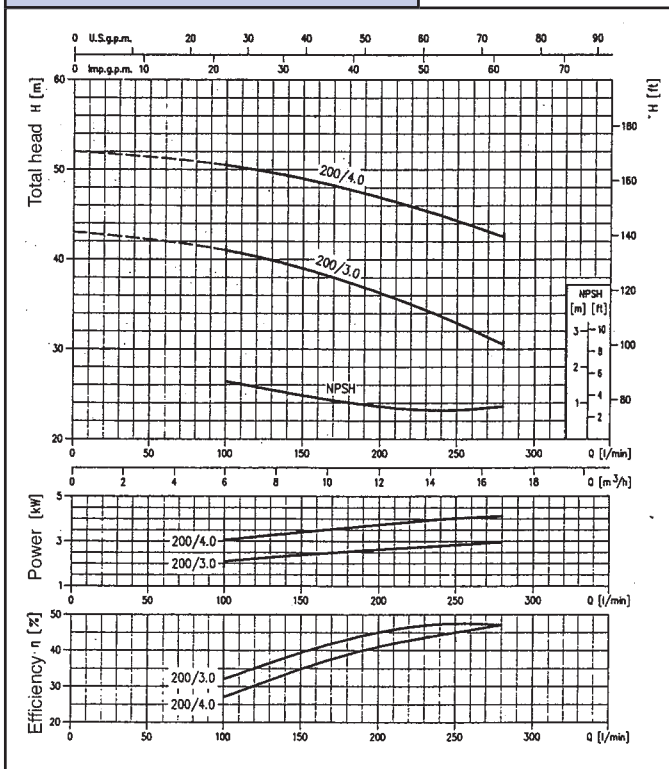
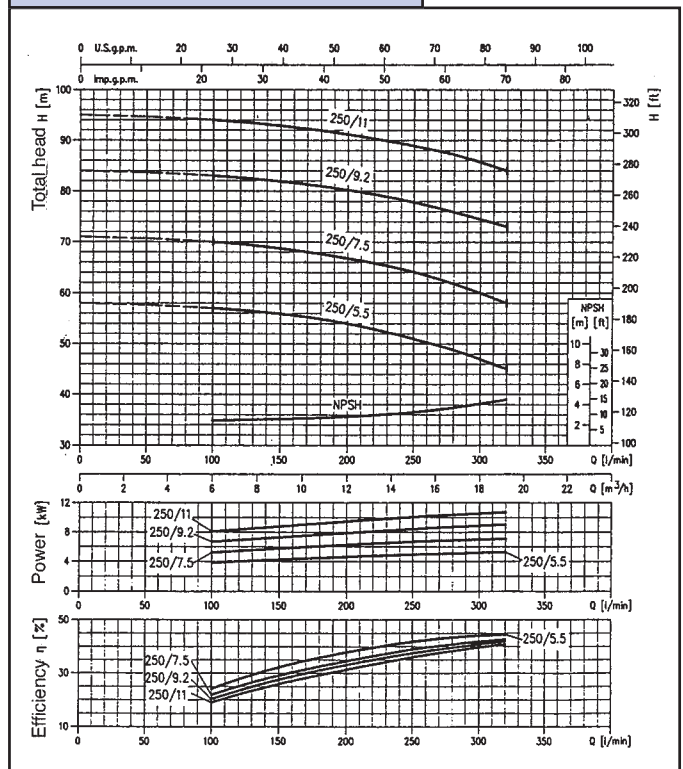
Test fluid : Clean water 20°C

Applicable standard : UNI EN ISO 9906 Appendice A

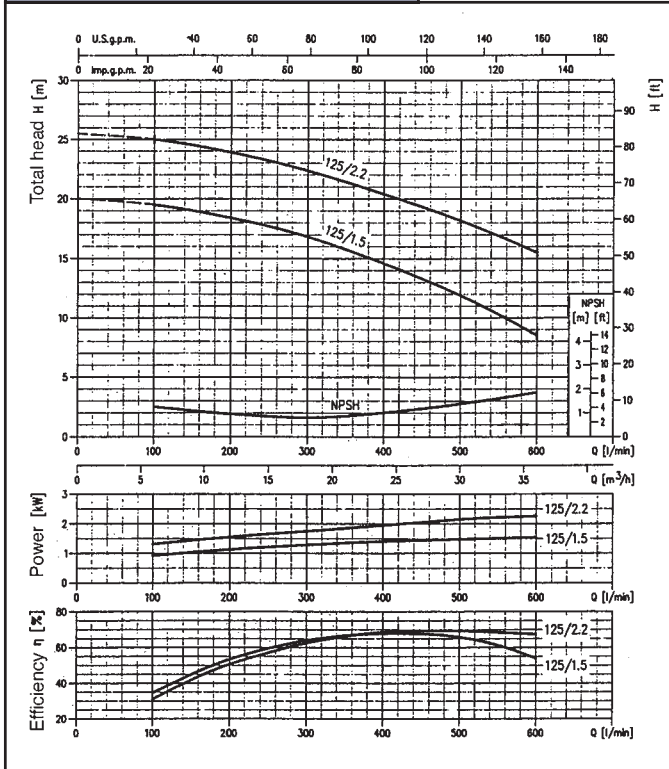
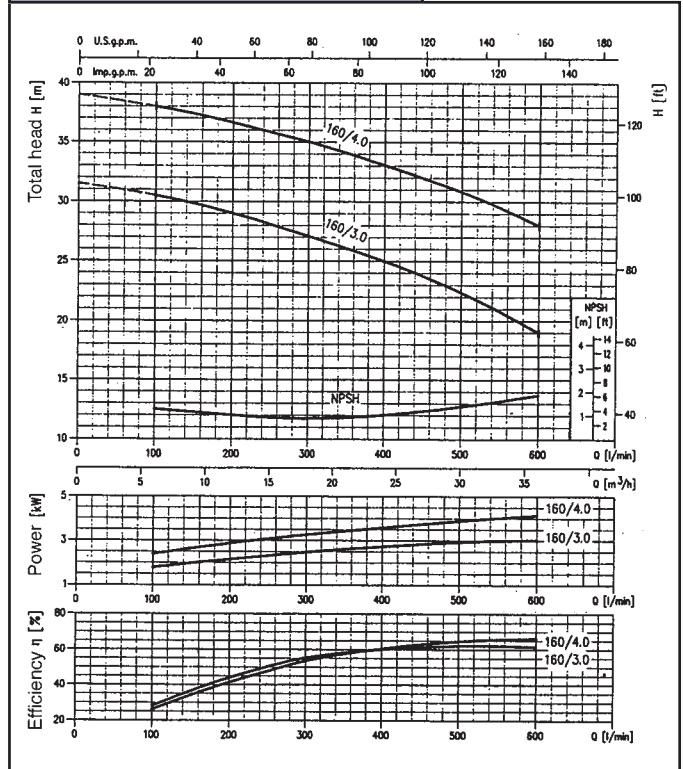
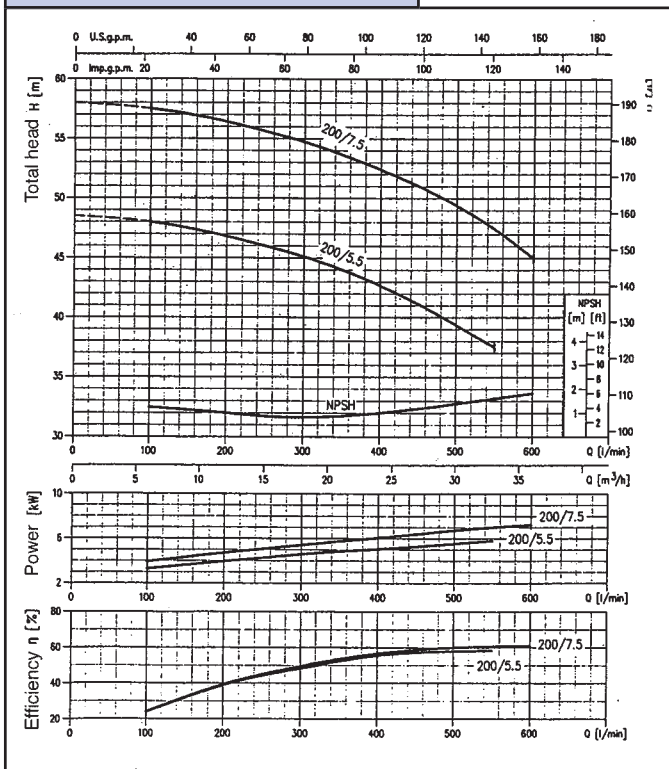
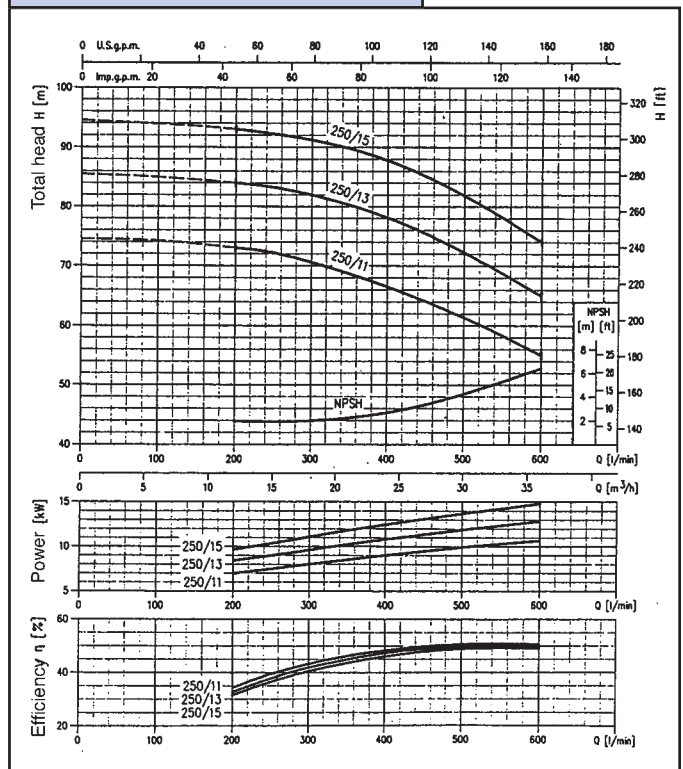
PERFORMANCE TABLE
MMD 4 pole

Model	Motor		Q=Capacity																																			
	kW	HP	l/min	H=Total head [m]																																		
			m ³ /h	0	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				
MMD4 32-125/0.25 R	0.25	0.33	4.8	4.4	4	3.5	3	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-125/0.25	0.25	0.33	6.3	6.2	6.1	5.8	5.3	4.6	3.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-160/0.37	0.37	0.5	9.6	-	9.2	8.9	8.3	7.7	6.8	5.8	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-200/0.75	0.75	1.0	13.5	-	12.8	12.4	11.9	11.3	10.6	9.8	8.9	8	7	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-200/0.92	0.92	1.25	15	-	14.6	14.3	13.8	13.3	12.7	11.8	10.9	10	9	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-250/1.1	1.1	1.5	19	-	18.5	18	17.5	17	15.9	14.5	12.8	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 32-125/1.5	1.5	2	22.5	-	22	21.6	21.2	20.5	19.4	18	16.5	15	13*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-125/0.25	0.25	0.33	4.8	-	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.9	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-125/0.37	0.37	0.5	6.4	-	6.3	6.2	6.1	6	5.8	5.5	5.2	4.9	4.4	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-160/0.55	0.55	0.75	9.2	-	8.8	8.6	8.4	8.1	7.7	7.3	6.9	6.4	5.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-200/1.1R	1.1	1.5	12.9	-	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	1.1	1.5	14.5	-	14.2	14	13.8	13.4	13	12.5	11.8	11	10.2	8.3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-250/1.5	1.5	2	18.7	-	18.3	18	17.7	17.4	17	16.7	16.2	15.6	15	13.7	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 40-250/2.2	2.2	3	23.2	-	22.5	22.3	22	21.7	21.4	21.2	20.5	20.2	19.5	18.5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-125/0.37	0.37	0.5	5.4	-	-	-	-	5.3	5.3	5.2	5.1	5	4.9	4.8	4.5	4.1	3.6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-125/0.55	0.55	0.75	6.5	-	-	-	-	6.4	6.3	6.3	6.2	6.1	6	5.9	5.5	5.2	4.9	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-160/0.75	0.75	1.0	8.3	-	-	-	-	-	8.1	8	7.9	7.8	7.7	7.4	7	6.6	6	5.1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-160/0.92	0.92	1.25	9.1	-	-	-	-	-	9	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	1.1	1.5	12.6	-	-	-	-	-	12.3	12.2	12	11.8	11.5	10.8	10	9	8	7	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-200/1.5	1.5	2	14.3	-	-	-	-	-	14.1	14	13.9	13.7	13.5	12.8	12	11.3	10.2	9	7.8	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 50-250/2.2	2.2	3	19.5	-	-	-	-	-	18.5	18.3	18.1	17.8	17.5	17	16.2	15.5	14.5	13.5	12.5	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/3	3	4	23	-	-	-	-	-	22.5	22.4	22.3	22.2	22	21.5	20.9	20.2	19.4	18.5	17.5	16.3	14.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-125/0.75	0.75	1.0	6	-	-	-	-	-	-	-	-	-	-	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	1.1	1.5	8.6	-	-	-	-	-	-	-	-	-	-	8.5	8.5	8.4	8.3	8.2	8.1	8	7.8	7.4	6.8	5.8	5	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-160/1.5	1.5	2	10.3	-	-	-	-	-	-	-	-	-	-	10.2	10.1	10	9.9	9.8	9.6	9.4	9.2	9	8.4	7.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-200/2.2	2.2	3	12.6	-	-	-	-	-	-	-	-	-	-	-	-	12.5	12.4	12.3	12.2	12.1	12	11.7	11.1	10.5	9.6	8.5	-	-	-	-	-	-	-	-	-	-	-	
MMD4 65-200/3	3	4	15.4	-	-	-	-	-	-	-	-	-	-	-	-	15.3	15.3	15.2	15.1	15	14.8	14.6	14.3	13.6	12.8	12	11	-	-	-	-	-	-	-	-	-	-	
MMD4 65-250/4	4	5.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	19.3	19.1	18.8	18.5	17.5	16.5	15.5	14	12.5	10.4	-	-	-	-	-	-	-	-	-	-	
MMD4 65-250/5.5	5.5	7.5	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	23	22.8	22.6	22.4	22.2	21.4	20.6	19.7	18.7	17.3	15.7	14	-	-	-	-	-	-	-	-	-	
MMD4 80-160/1.5	1.5	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	7.6	7.5	7.3	7	6.7	6.4	6.1	5.7	5.4	5	-	-	-	-	-	-		
MMD4 80-160/2.2	2.2	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	9.6	9.5	9.3	9	8.8	8.5	8.2	7.9	7.5	7.1	6	-	-	-	-	-		
MMD4 80-200/3	3	4	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	11.9	11.7	11.5	11.3	11	10.5	10	9.5	9	8.5	7	-	-	-	-	-	-	
MMD4 80-200/4	4	5.5	14.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	14.3	14.2	14	13.8	13.5	13.1	12.6	12.2	11.6	11	9	6.5	-	-	-	-	-	
MMD4 80-250/5.5	5.5	7.5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.2	18.9	18.5	18	17.6	17.1	16.5	16	14	12	-	-	-	-	-	-	-	-	
MMD4 80-250/7.5	7.5	10	23.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.3	22.1	21.9	21.7	21.3	21	20.5	20	18.5	16.9	14.5	-	-	-	-	-	-	-	

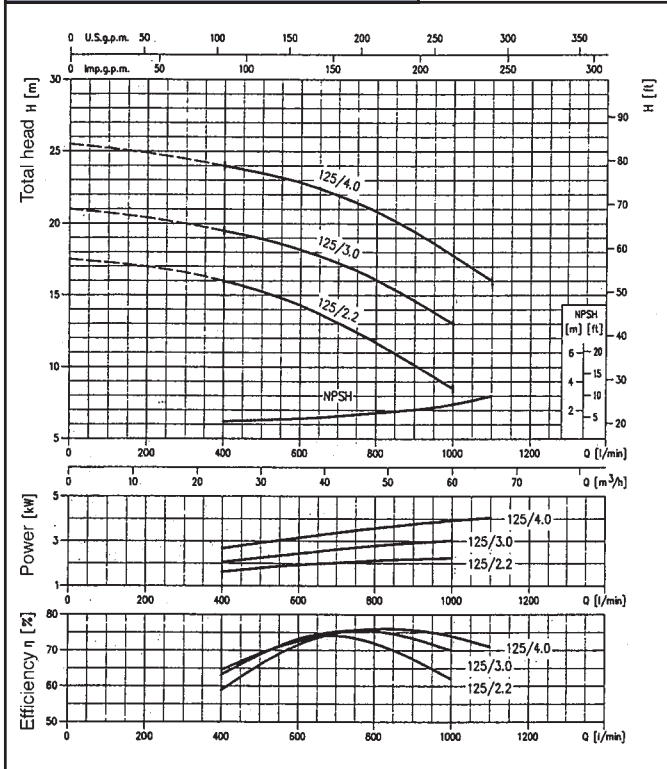
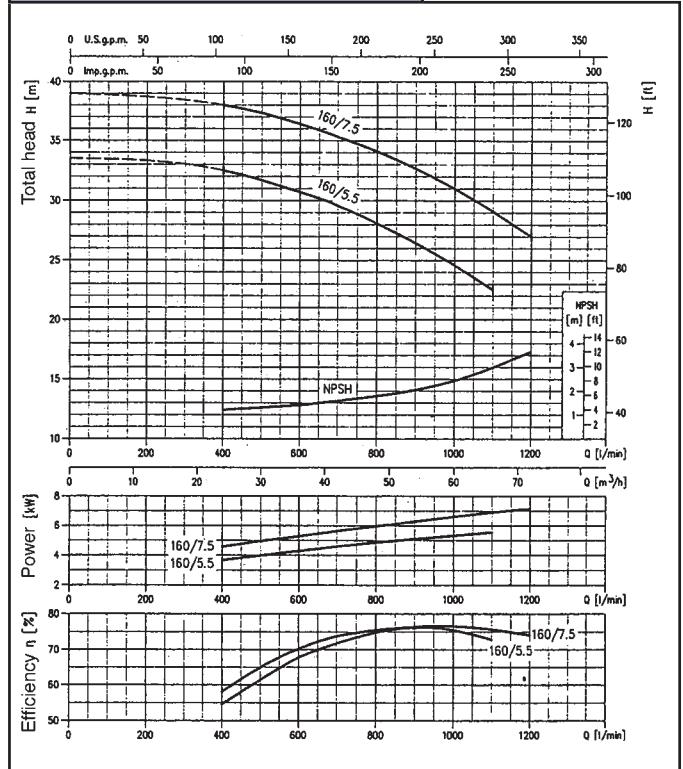
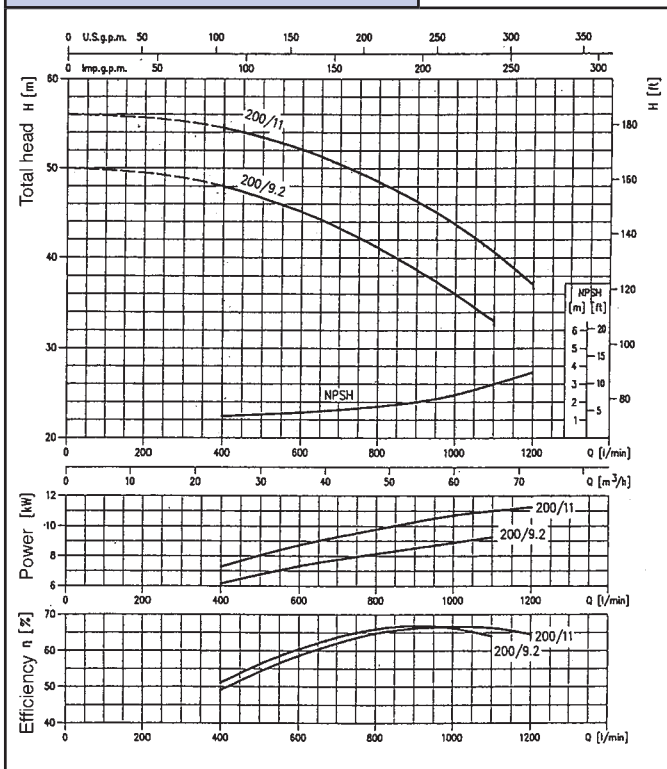
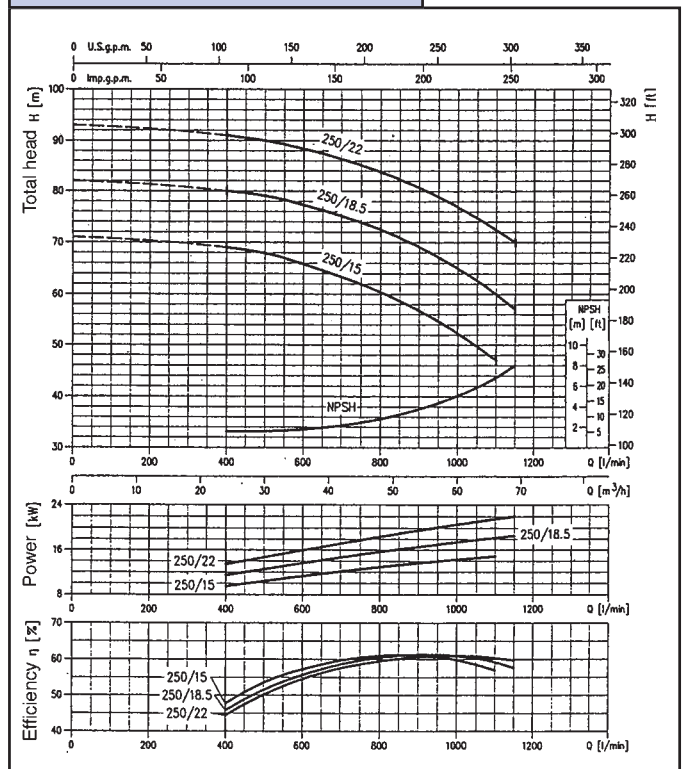
Model	Motor		Q=Capacity																																			
	kW	HP	l/min	H=Total head [m]																																		
			m ³ /h	0	54	60	66	72	78	84	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	480	510	540	570	600								
MMD4 100-200/4	4	5.5	13	12.3	12.2	12	11.8	11.6	11.4	11.2	10.3	9.3	8	6.6	4.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 100-200/5.5	5.5	7.5	14.7	14.5	14.4	14.2	14	13.8	13.6	13.4	12.8	12	11	9.8	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 100-250/7.5	7.5	10	20	-	19.5	19.3	19.1	18.9	18.7	18.5	17.5	16.5	15.2	14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 100-250/9.2	9.2	12.5	22.4	-	22	21.9	21.8	21.7	21.6	21.5	20.5	19.5	18.5	17	15	12.8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/5.5	5.5	5.5	11.2	-	-	-	-	-	-	10.5	10.3	9.9	9.5	9.1	8.5	7.9	6.4	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MMD4 125-200/7.5R	7.5	10	12.4	-	-	-	-	-	-	11.8	11.6	11.3	11	10.6	10.2	9.6	8.3	7.7	6.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5	7.5	10	13.7	-	-	-	-	-	-	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	9.2	12.5	15	-	-	-	-	-	-	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	11	15	18.6	-	-	-	-	-	-	17.2	16.7	16.2	15.5	14.8	13.9	12	11.3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/15	15	20	22	-	-	-	-	-	-	21	20.5	20.1	19.5	18.9	18.2	16.6	16	14.8	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/7.5	7.5	10	11.6	-	-	-	-	-	-	11	10.7	10.4	10.1	9.7	8.8																							

PERFORMANCE CURVE
2 POLE
MD 32-125

MD 32-160

MD 32-200

MD 32-250


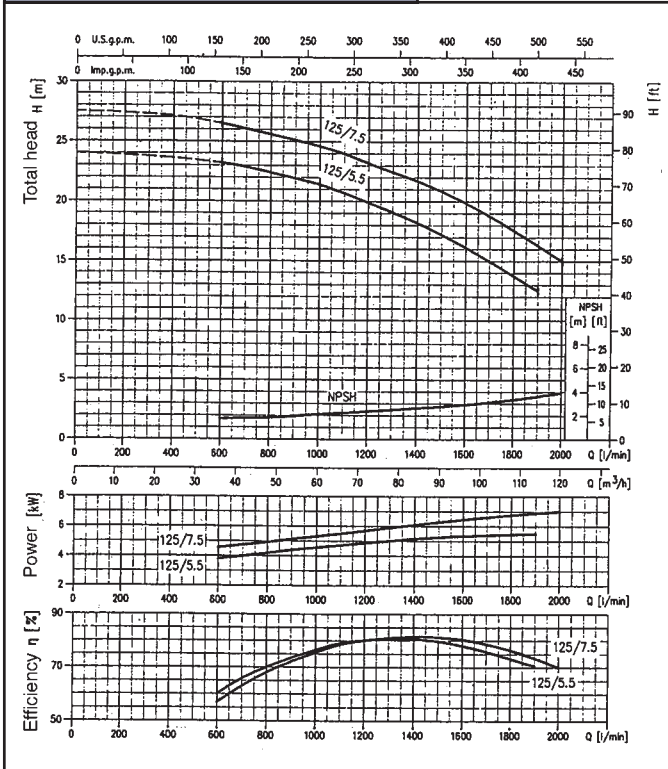
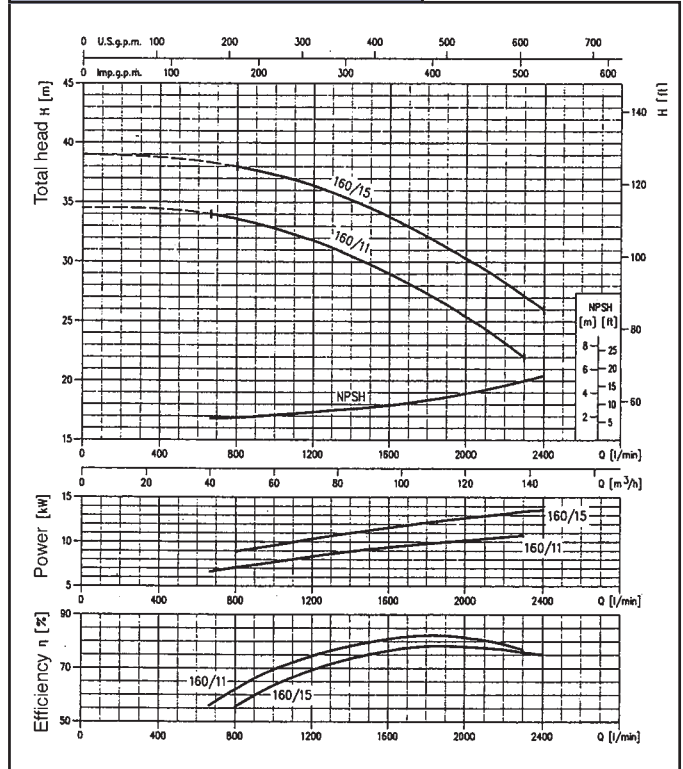
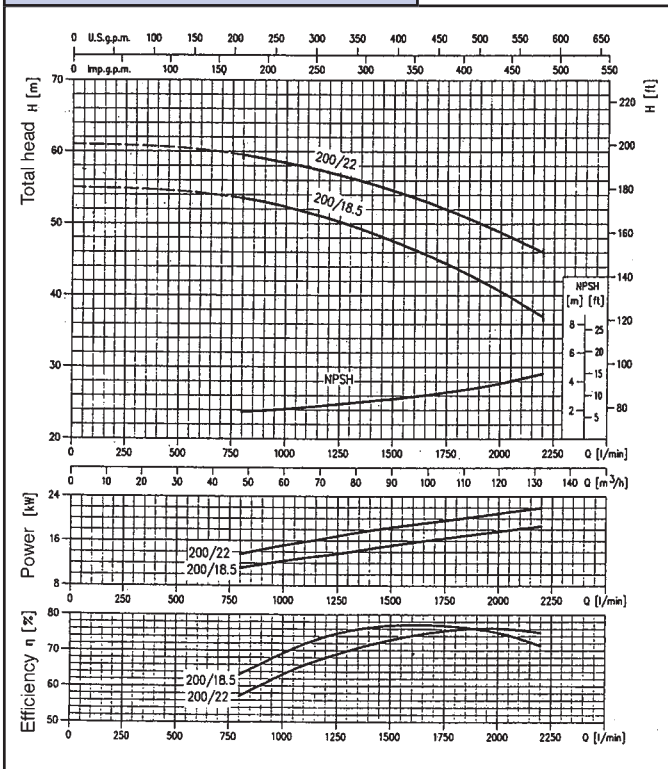
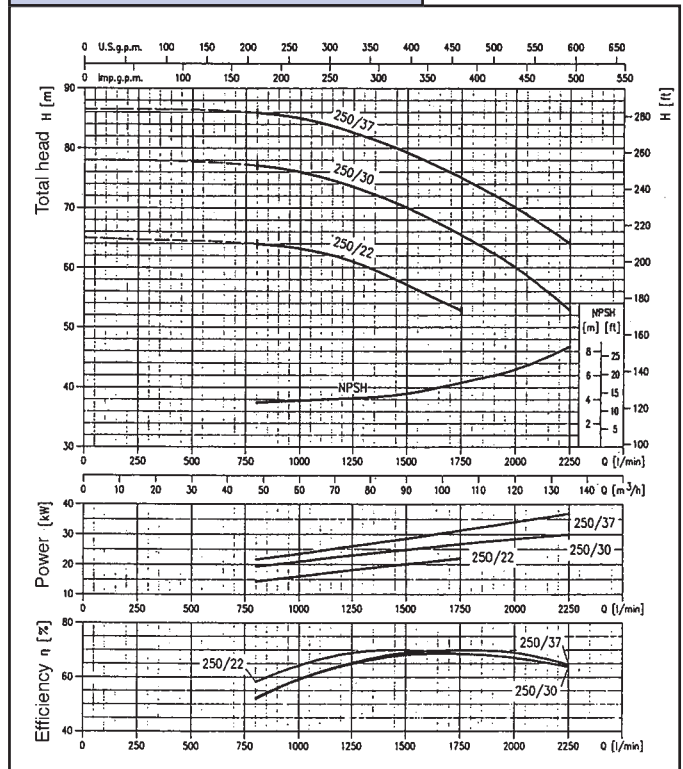
R.P.M. \approx 2900 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
2 POLE
MD 40-125

MD 40-160

MD 40-200

MD 40-250


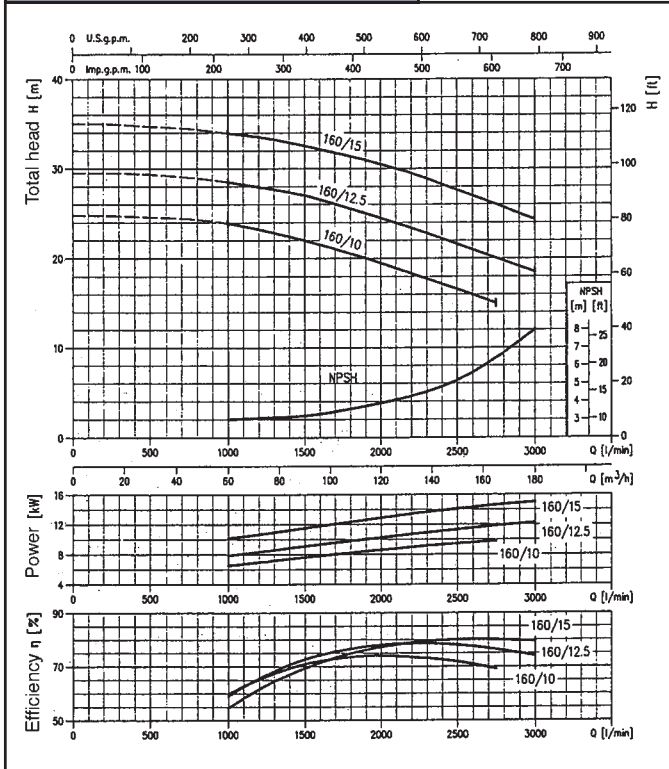
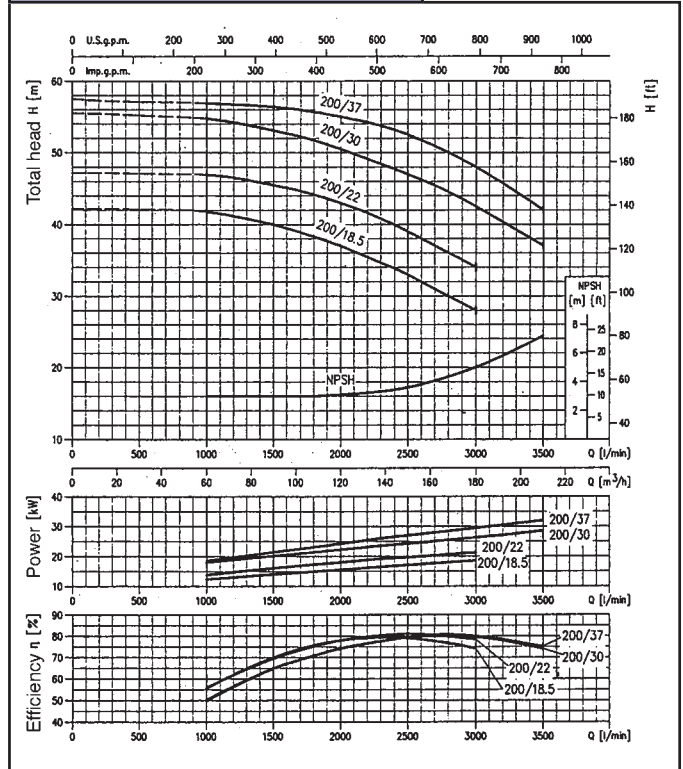
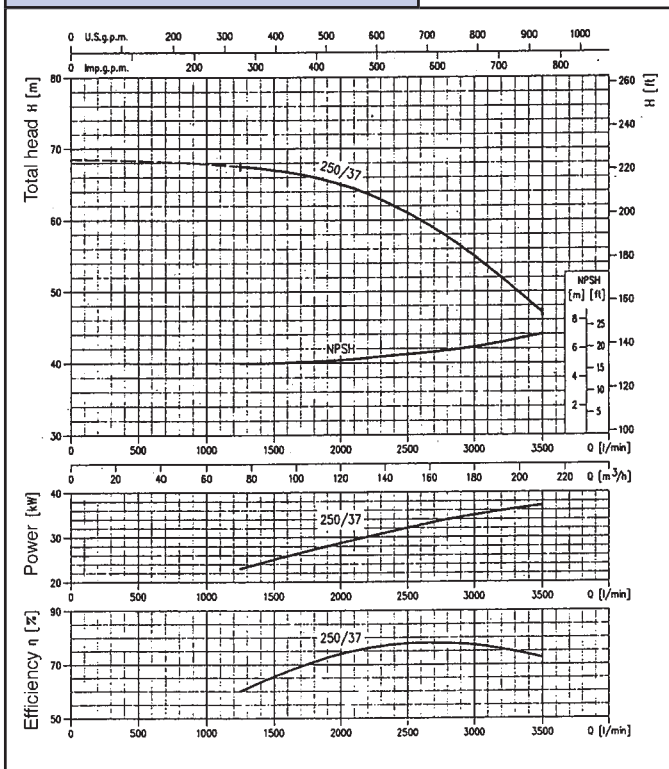
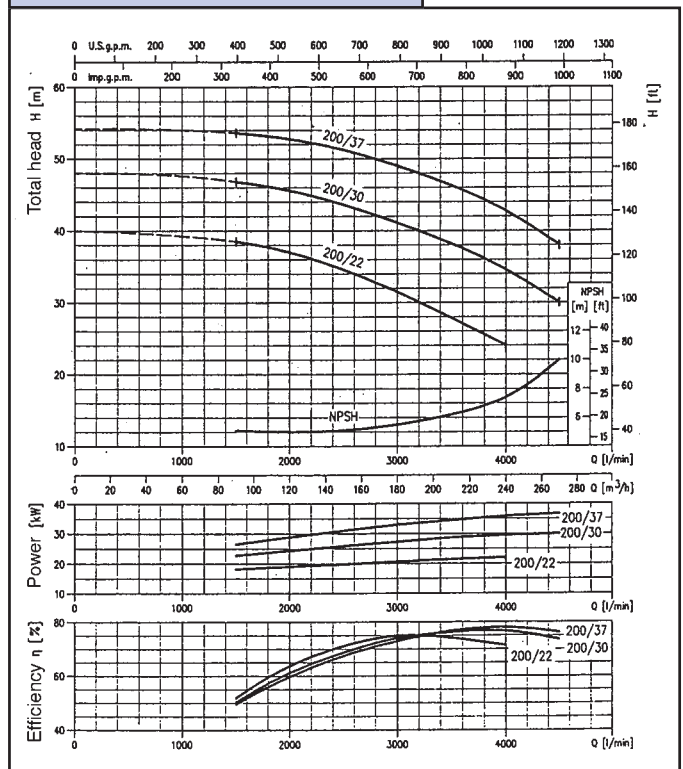
R.P.M. \approx 2900 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
2 POLE
MD 50-125

MD 50-160

MD 50-200

MD 50-250


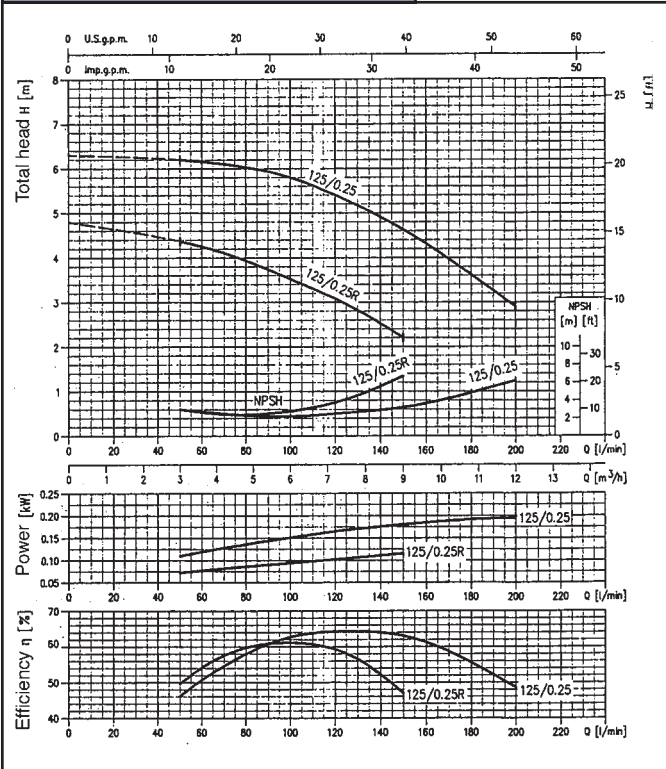
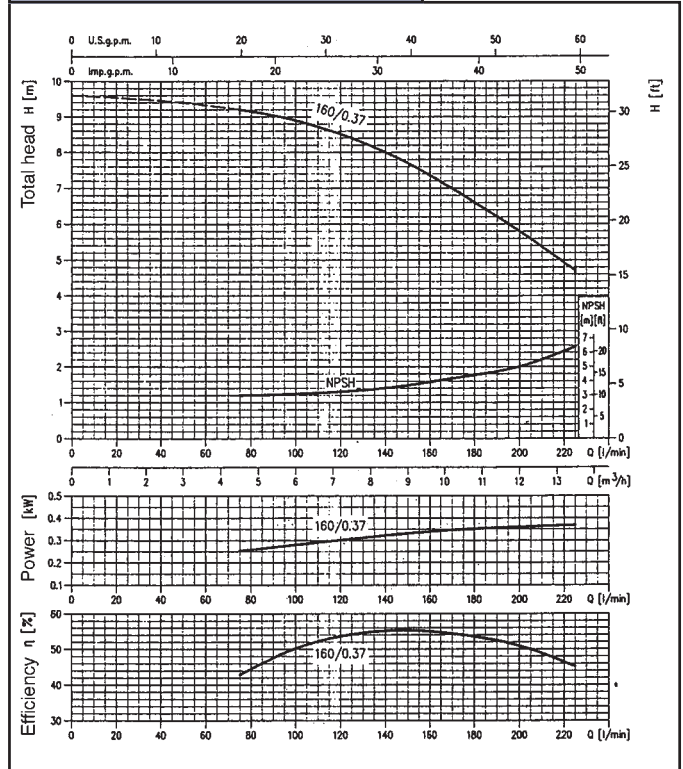
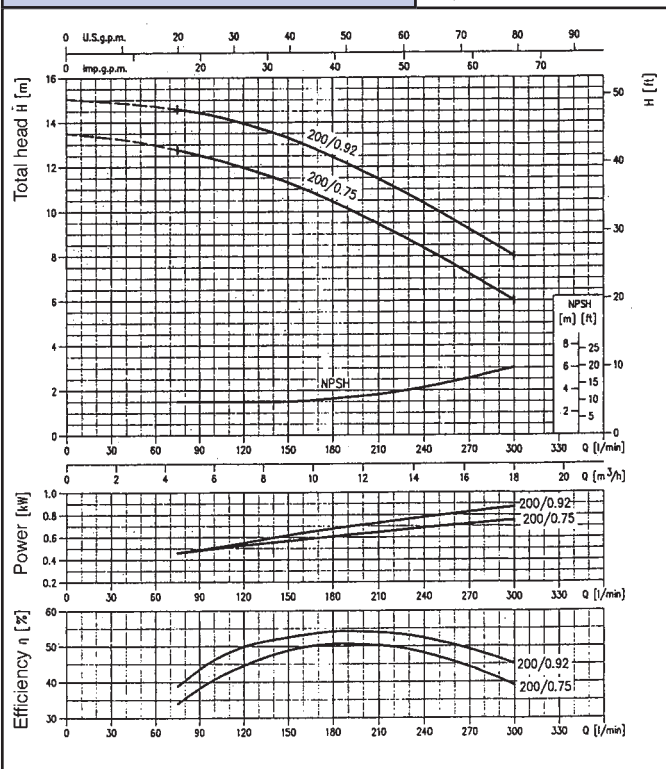
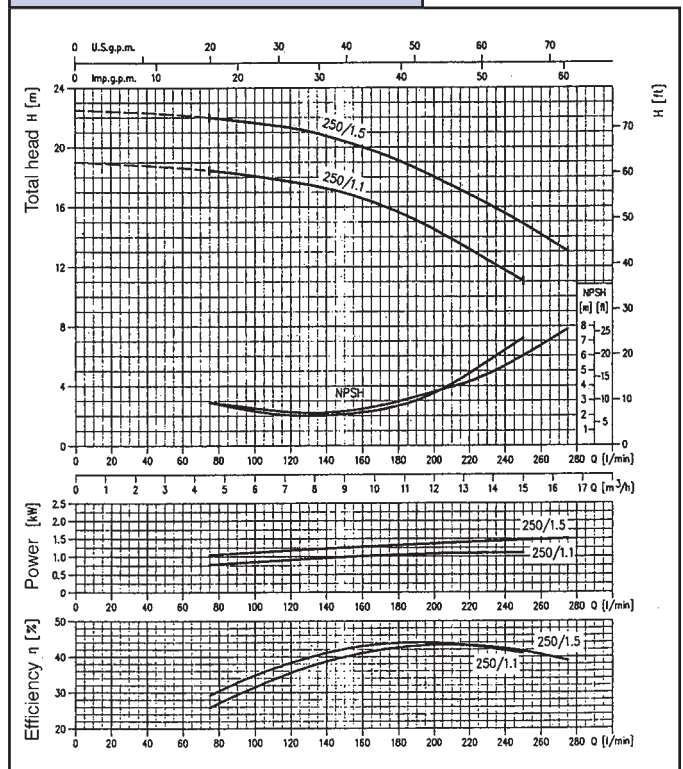
R.P.M. \approx 2900 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
2 POLE
MD 65-125

MD 65-160

MD 65-200

MD 65-250


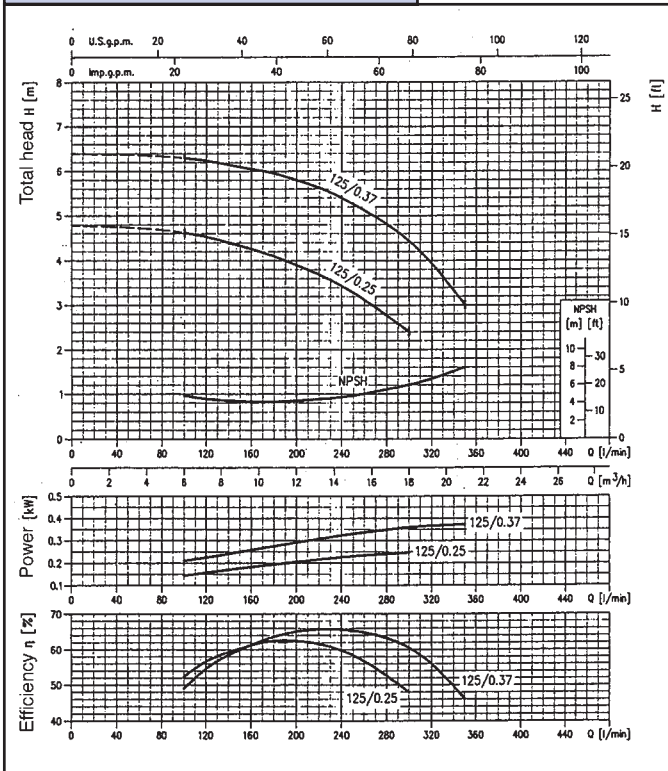
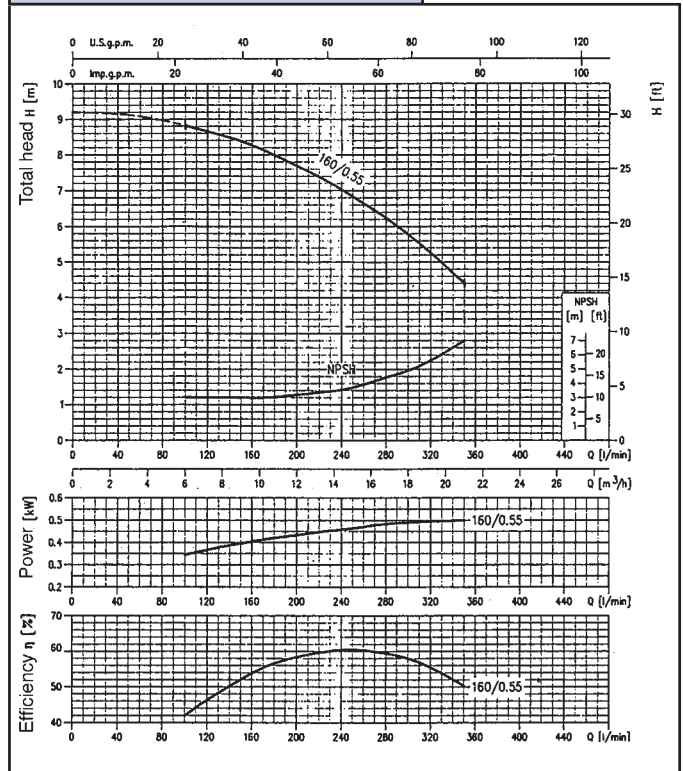
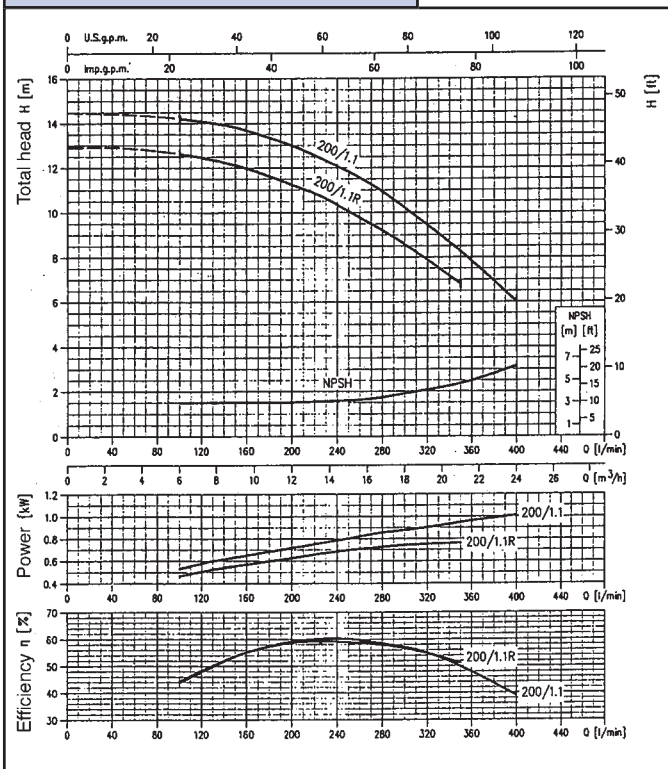
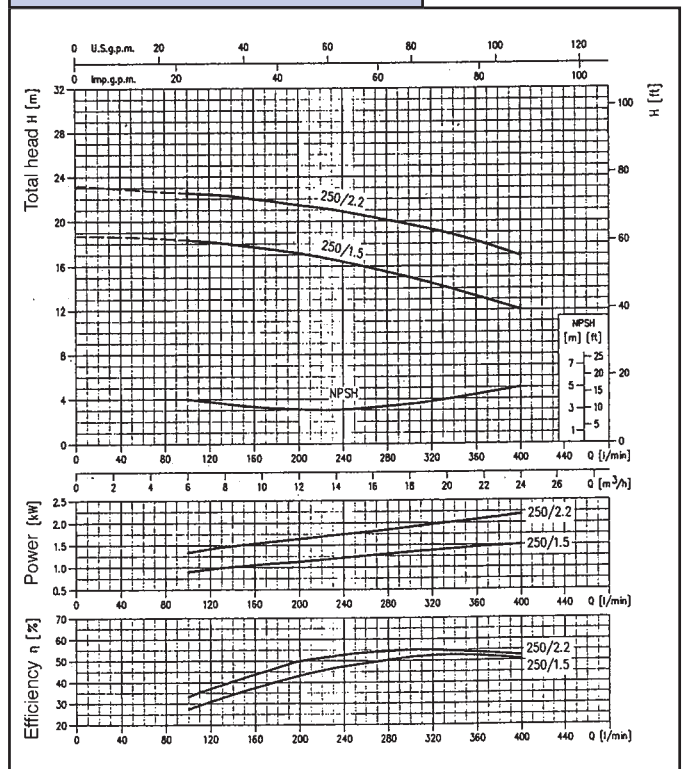
R.P.M. ≈ 2900 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
2 POLE
MMD 80-160

MMD 80-200

MMD 80-250

MMD 100-200


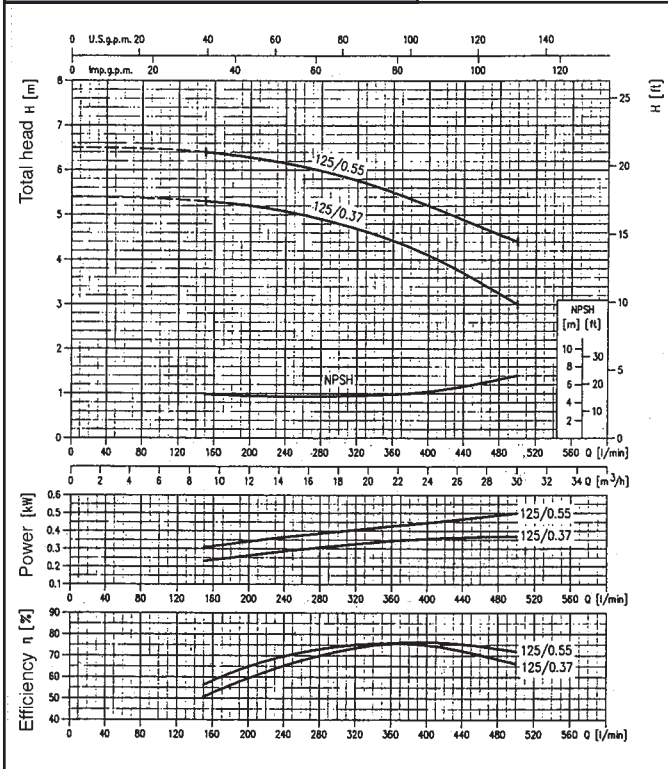
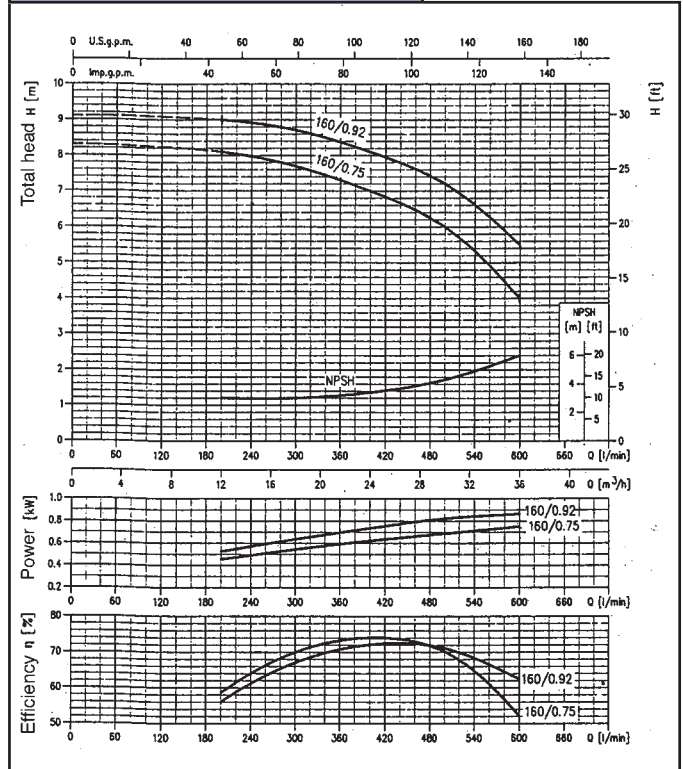
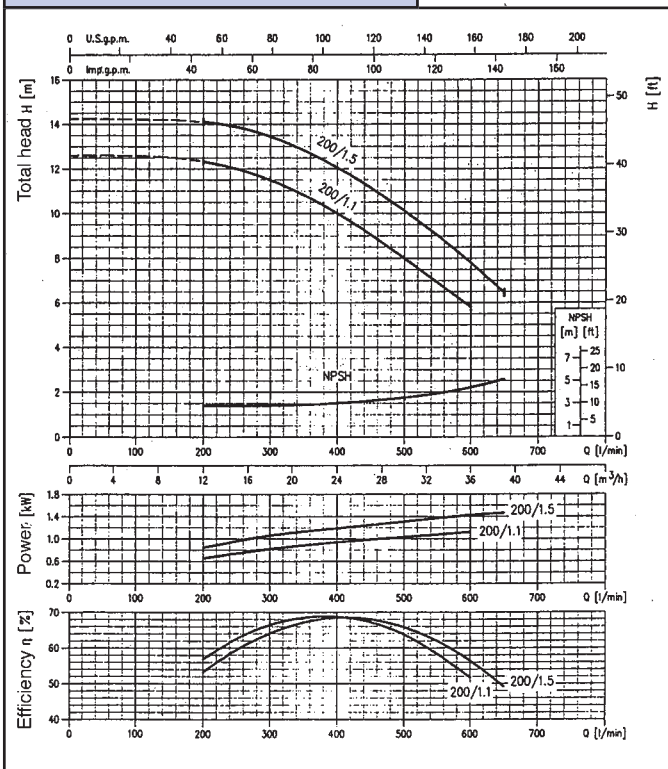
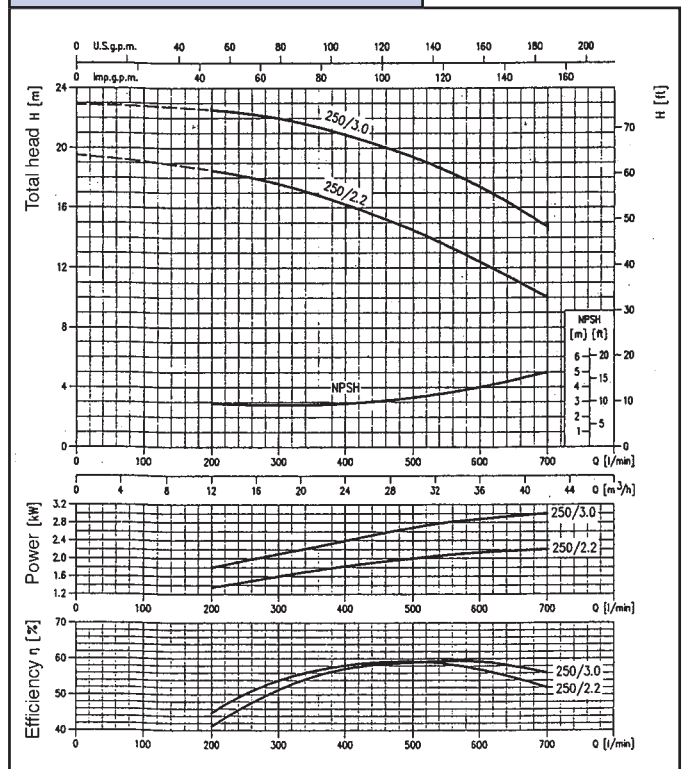
R.P.M. \approx 2900 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD 32-125

MMD 32-160

MMD 32-200

MMD 32-250


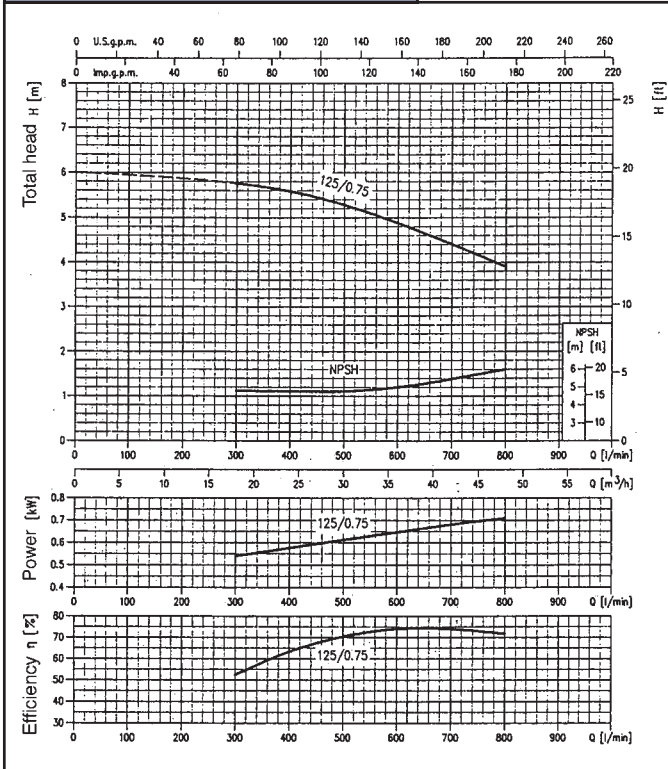
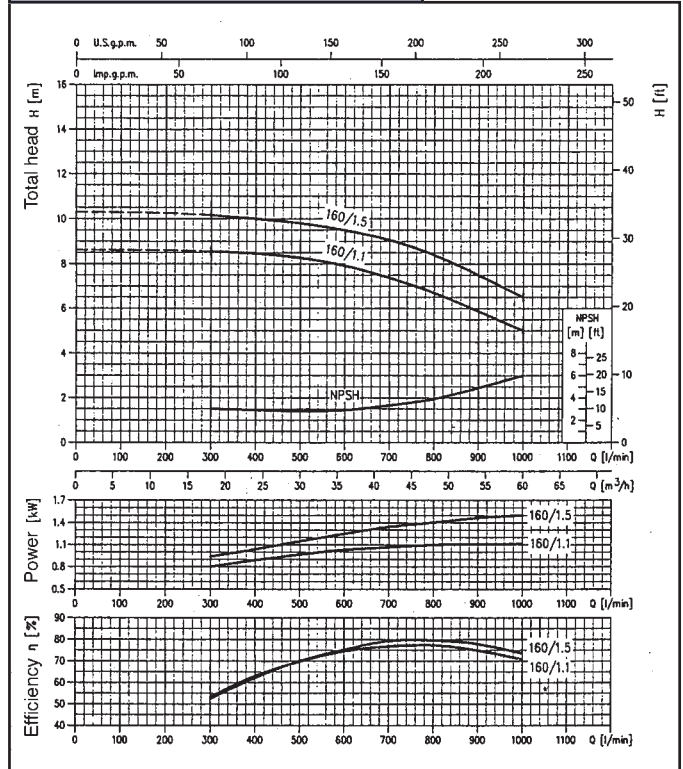
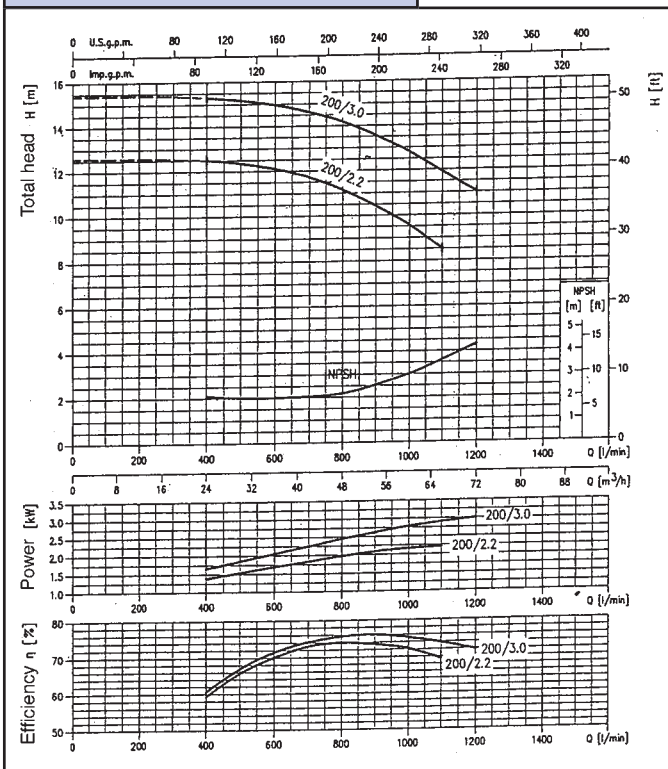
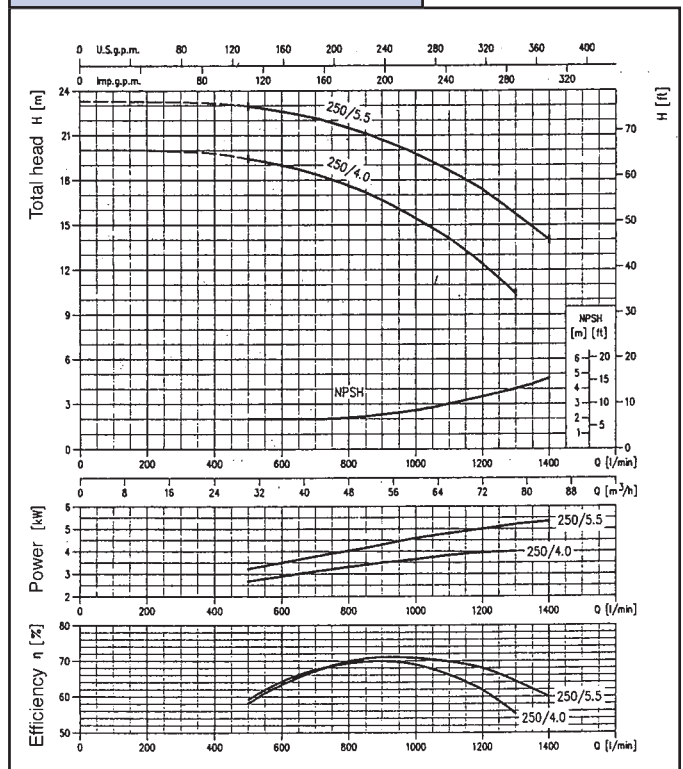
R.P.M. \approx 1400 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD 40-125

MMD 40-160

MMD 40-200

MMD 40-250


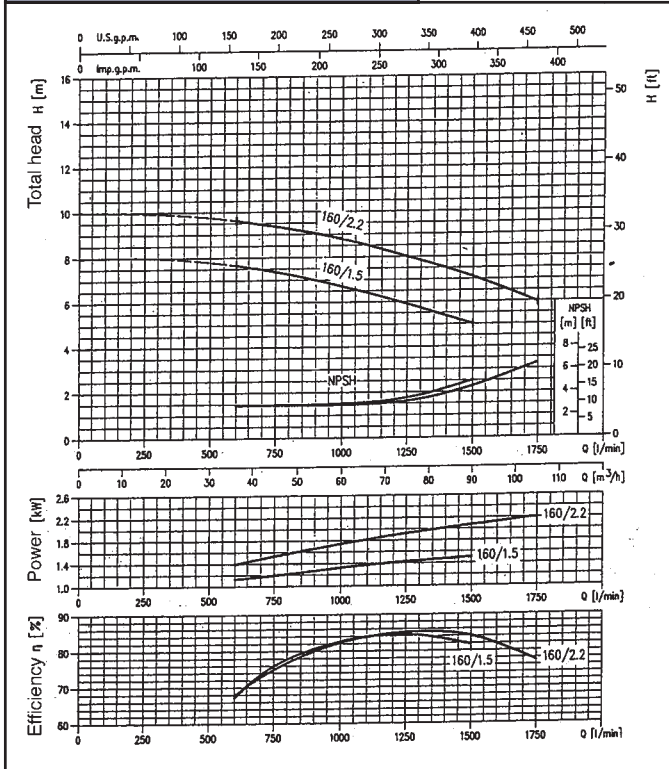
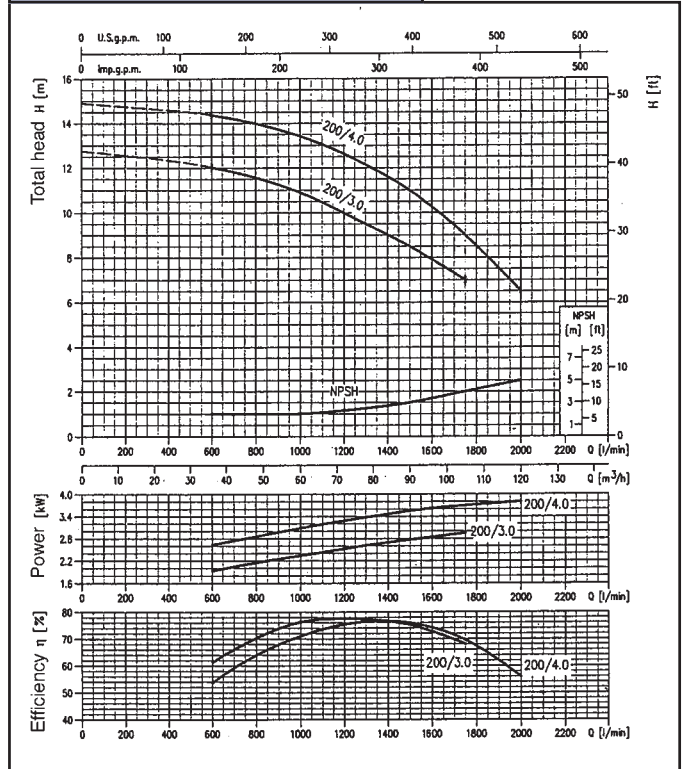
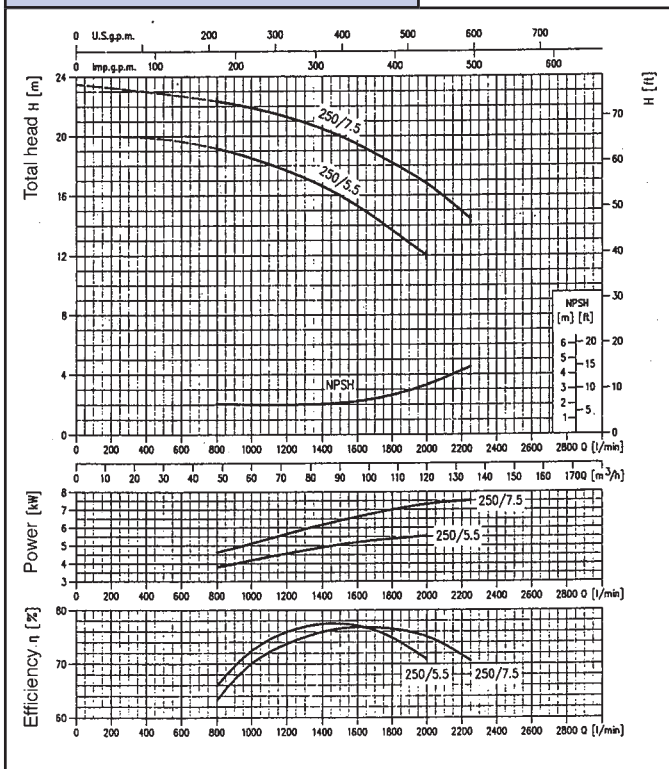
R.P.M. $\approx 1400 \text{ min}^{-1}$
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD4 50-125

MMD4 50-160

MMD4 50-200

MMD4 50-250


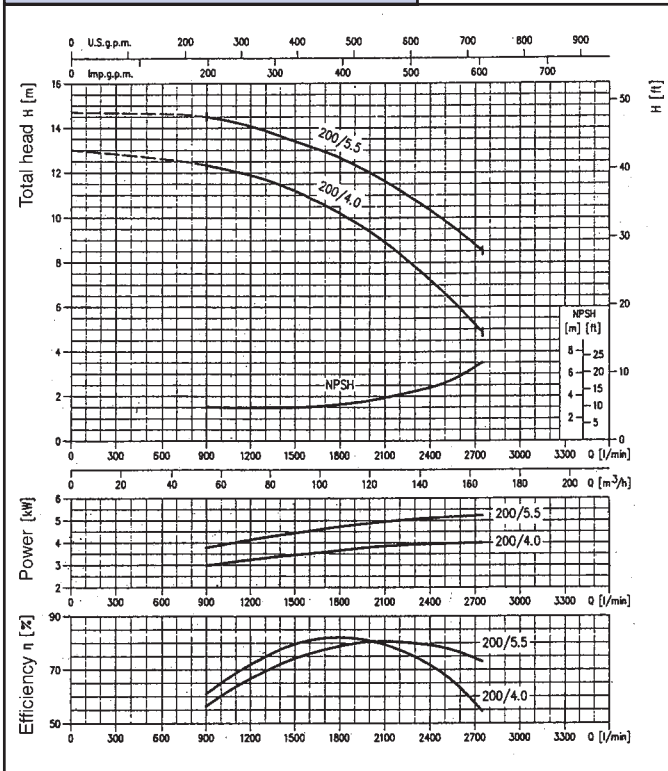
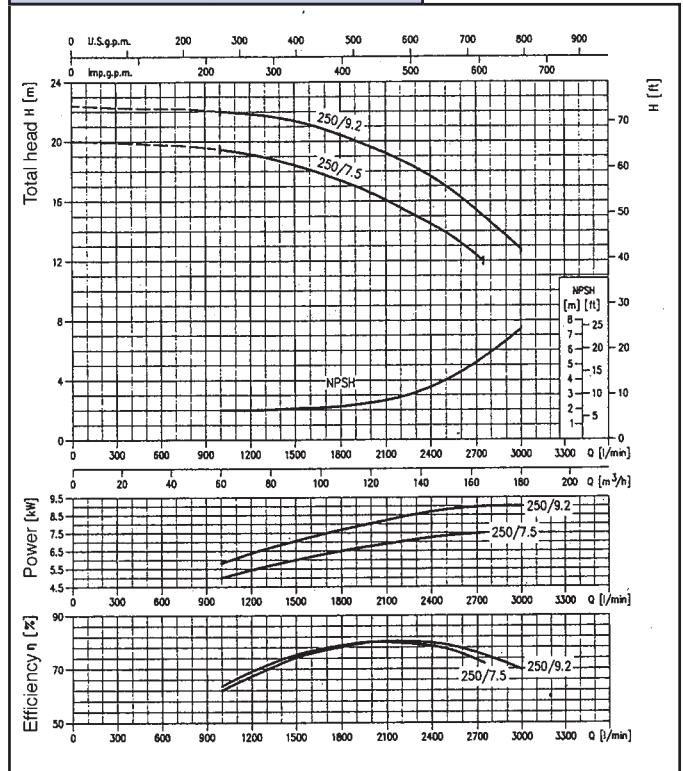
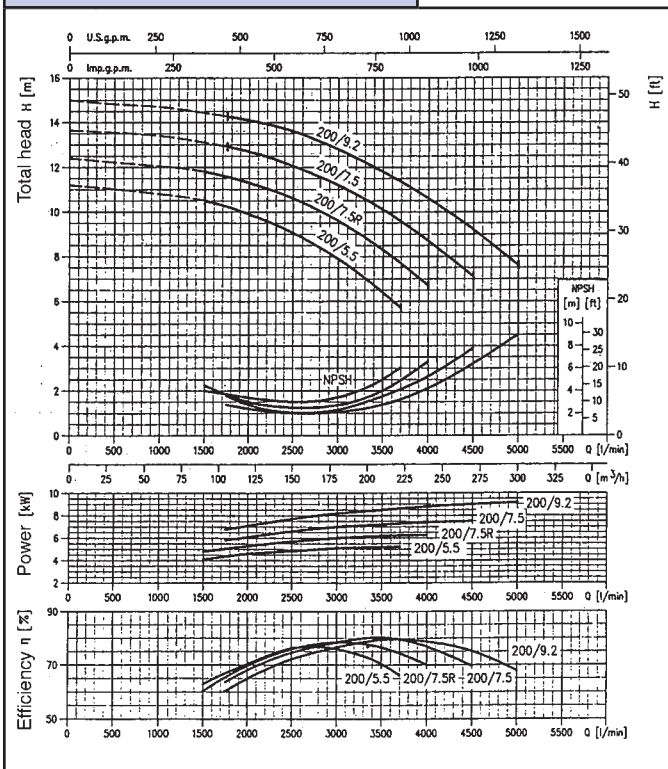
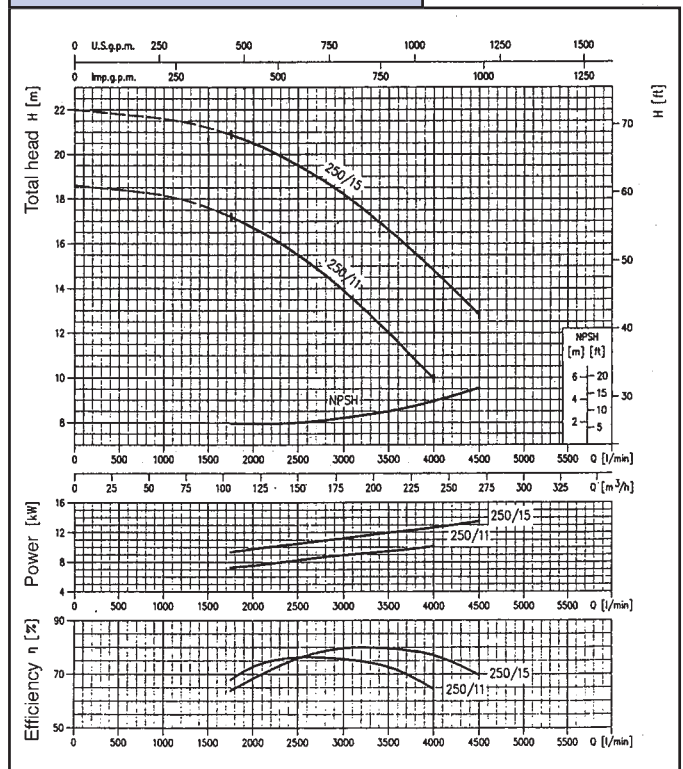
R.P.M. \approx 1400 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD4 65-125

MMD4 65-160

MMD4 65-200

MMD4 65-250


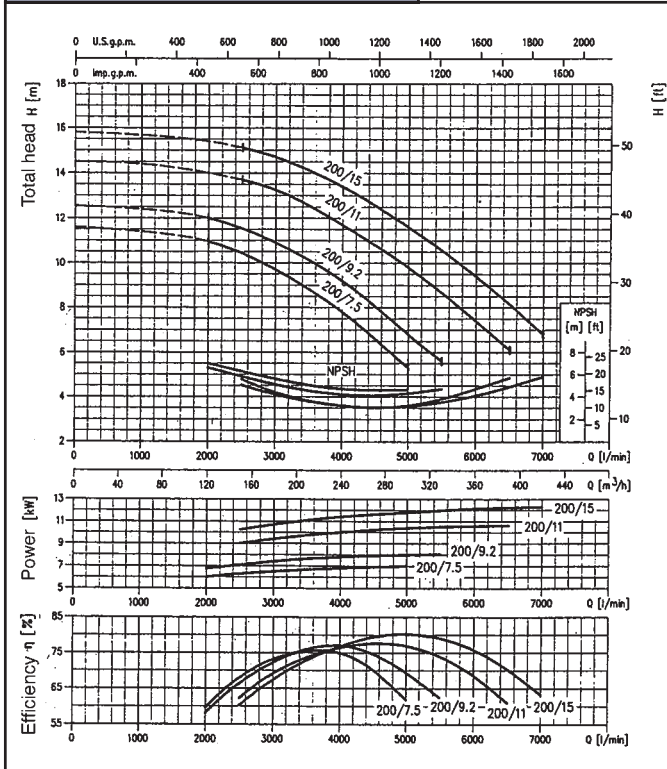
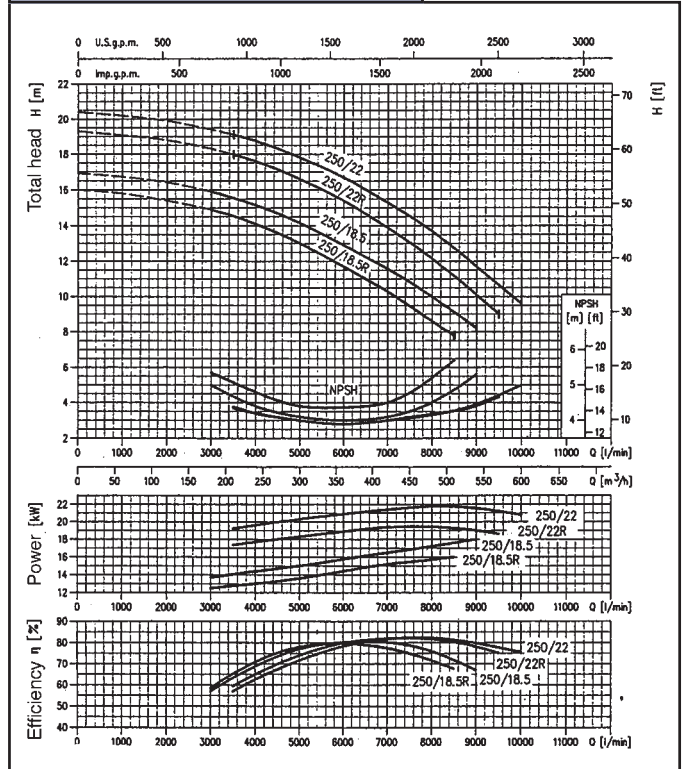
R.P.M. \approx 1400 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD4 80-160

MMD4 80-200

MMD4 80-250


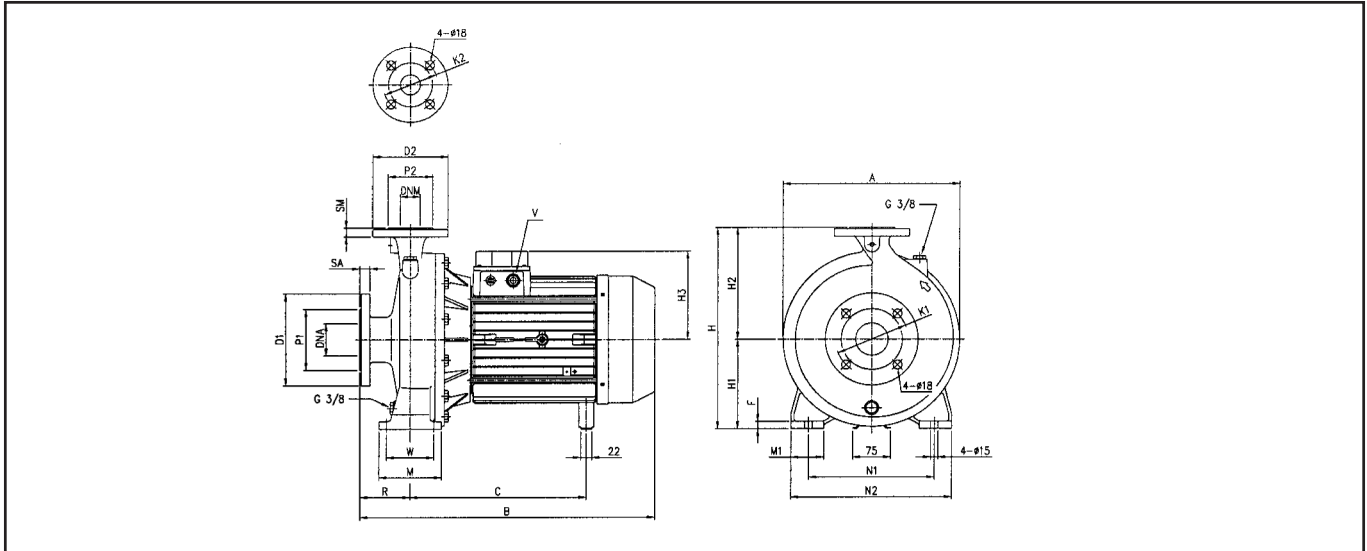
R.P.M. ≈ 1450 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

PERFORMANCE CURVE
4 POLE
MMD4 100-200

MMD4 100-250

MMD4 125-200

MMD4 125-250


R.P.M. \approx 1450 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

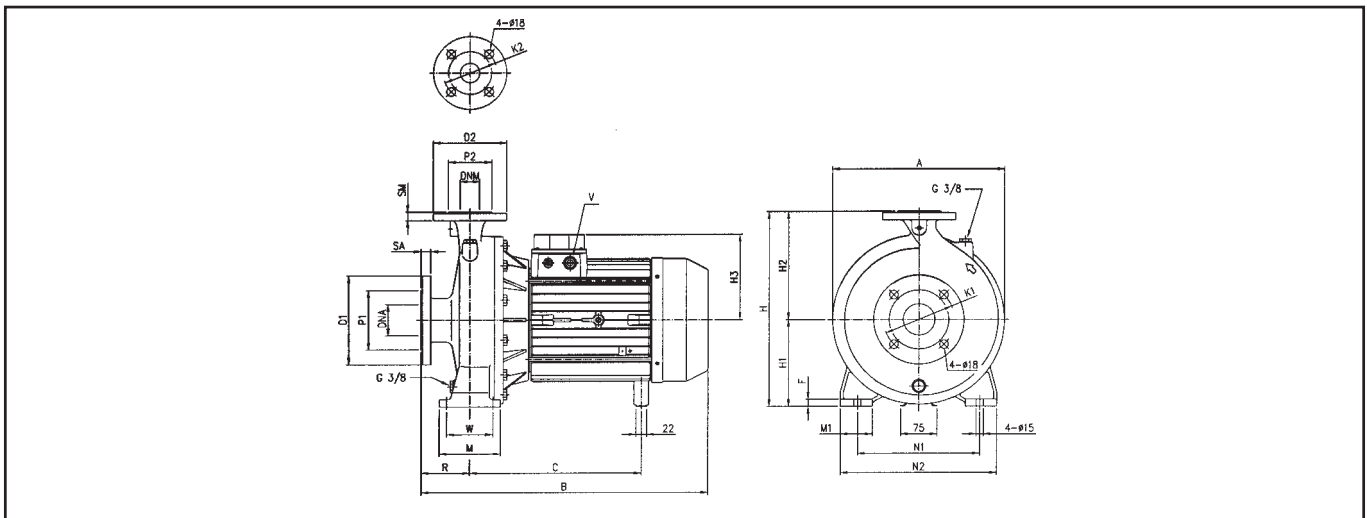
PERFORMANCE CURVE
4 POLE
MMD4 150-200

MMD4 200-250


R.P.M. \approx 1450 min⁻¹
 Test fluid : Clean water 20°C
 Applicable standard : UNI EN ISO 9906 Appendice A

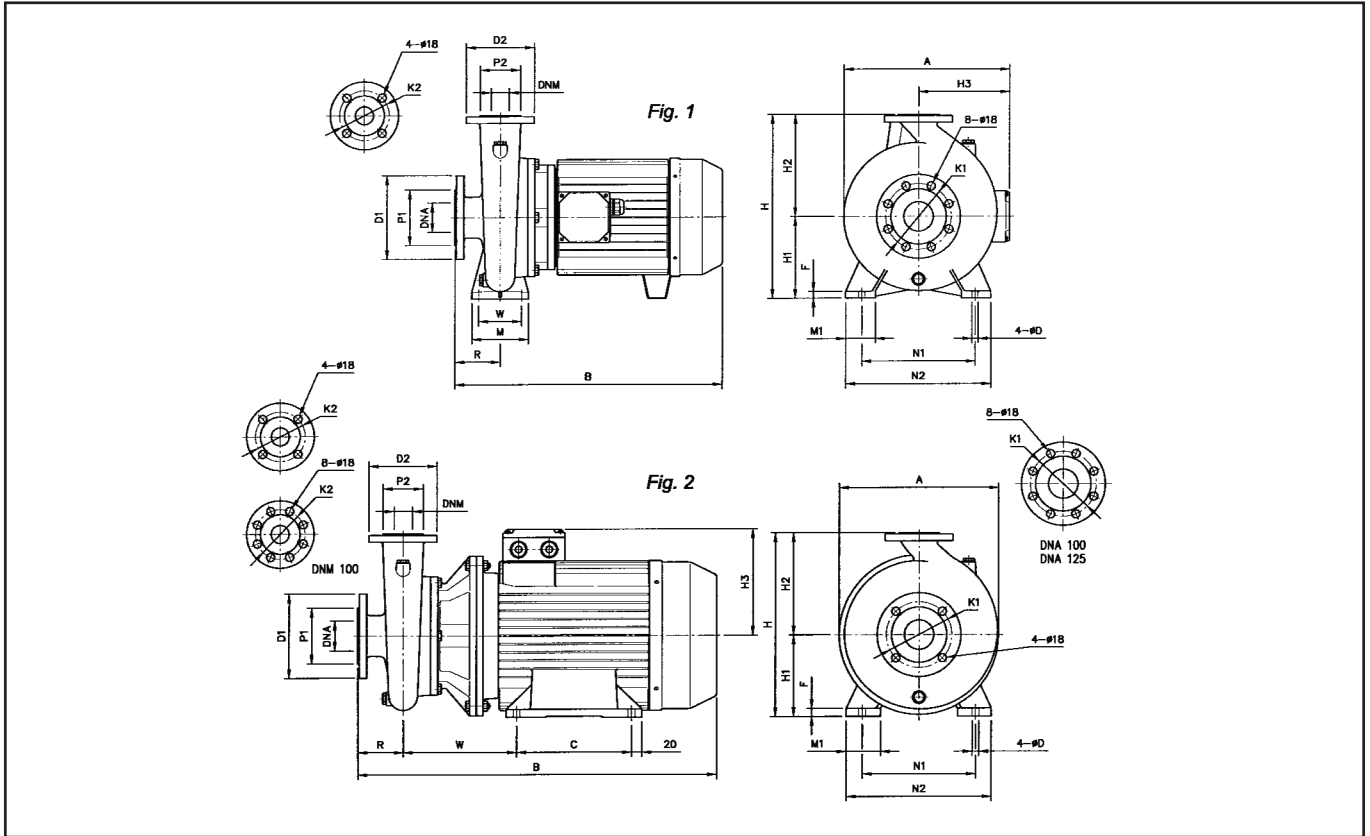
DIMENSION
MD 2 pole


Model	Dimension (mm) H3																			Weight [Kg]							
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	[1]	[2]	R	W	N1	M		N2	M1	F	A	B	C	V [1]
MD 32-125/1.1											252	112	140										205				276
MD 32-125/1.5											292	132	160	122	139								245	431	230	PG 13.5	28.3
MD 32-160/1.5											340	160	180										290				31.5
MD 32-160/2.2											405	180	225	134									459	254			35.4
MD 32-200/3											405	180	225	153									496	275			44.1
MD 32-200/4											405	180	225	181									540				50.5
MD 32-200/5.5											405	180	225	181									588	351			70.5
MD 32-250/7.5											405	180	225	181									588	351			74.6
MD 32-250/9.2											405	180	225	181									588	351			84.3
MD 32-250/11											405	180	225	181									588	351			87.3
MD 40-125/1.5											252	112	140	122	139								235	431	230	PG 13.5	28.9
MD 40-125/2.2											292	132	160	134									245	459	232		31.9
MD 40-160/3											340	160	180	153									290	495	278		39
MD 40-160/4											340	160	180	153									290	495	278		45.7
MD 40-200/5.5											405	180	225	181									352	588	351		60.1
MD 40-200/7.5											405	180	225	181									352	588	351		68.5
MD 40-250/11											405	180	225	181									352	588	351		90.7
MD 40-250/13											405	180	225	181									352	588	351		93
MD 50-125/2.2											292	132	160	122	139								230	431	230	PG 13.5	34
MD 50-125/3											340	160	180	134									451				36
MD 50-125/4											340	160	180	153									479	232			42.3
MD 50-160/5.5											360	180	210	181									260	495	278		57.2
MD 50-160/7.5											360	180	210	181									300	585	355		68.7
MD 50-200/9.2											360	180	210	181									300	585	355		74
MD 50-200/11											360	180	210	181									300	585	355		80.9
MD 50-250/13											360	180	210	181									300	585	355		88.3
MD 65-125/5.5											340	160	180	153									260	495	278		58.3
MD 65-125/7.5											340	160	180	153									260	495	278		67
MD 65-160/11											360	180	210	181									300	585	355		86.4
MD 65-160/15											360	180	210	181									300	585	355		91.9

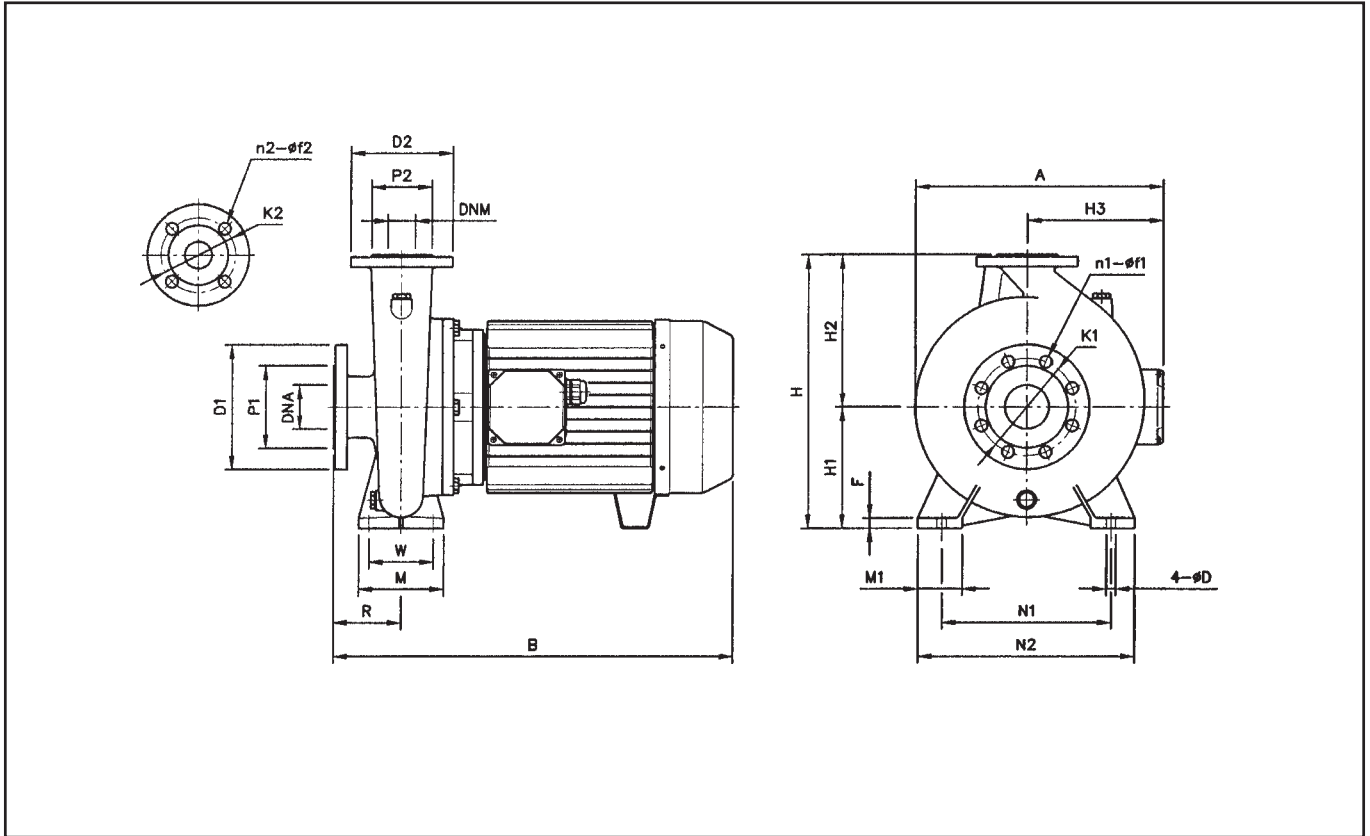
[1] = Three-phase [2] = Single-phase



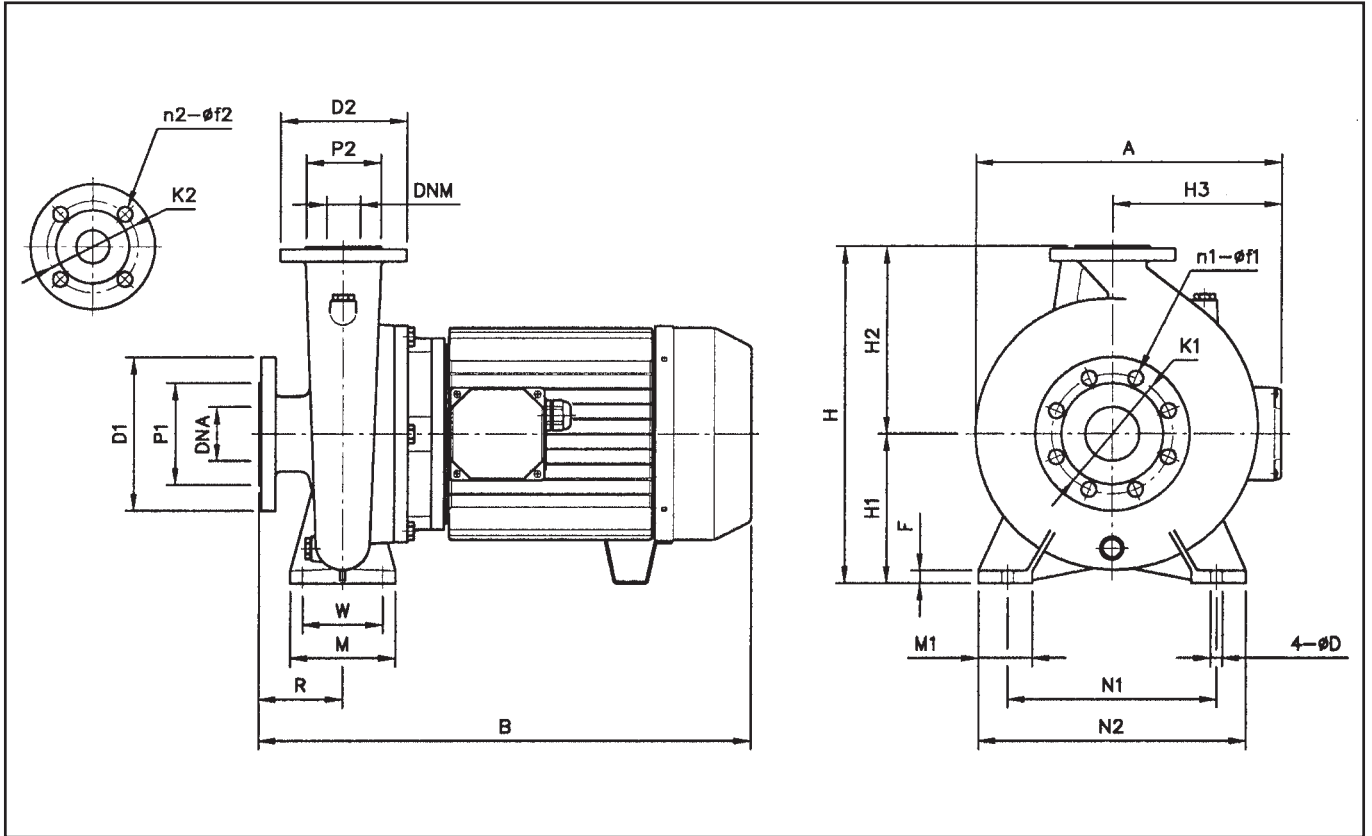
Model	Dimension (mm)																			Weight [Kg]						
	DNA	P1	K1	D1	SA	DNM	P2	K2	D2	SM	H	H1	H2	H3	R	W	N1	M	N2		M1	F	A	B	C	V [1]
MD 40-250/15											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	96.8
MD 50-250/15											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	97.6
MD 50-250/18.5											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	126
MD 50-250/22											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	148
MD 65-200/18.5											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	126
MD 65-200/22											405	180	225	230	100	95	250	125	320	65	15	352	734	501	PG 21	135

DIMENSION
MMD 2 pole

DIMENSIONAL TABLE

Model	Fig.	Dimension (mm)																				Weight [Kg]																												
		DNA	P1	K1	D1	DNW	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A		B	C	D																									
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																									
MMD 65-250/30											200		257												325	318	360	60	24	400	905	305	18	172																
MMD 65-250/37											200		257												325	318	360	60	24	400	905	305	18	190																
MMD 80-160/10	1									405	225	184		95	250	125		65	14	345	665	-				74																								
MMD 80-160/12.5																										180																								81.5
MMD 80-160/15																										180																								
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	250	230	125	293	280			55	22	360	835	241				132																								
MMD 80-200/22																										200	257	325		360	60	24	400	930	305	18	150													
MMD 80-200/30																										200	257	325		360	60	24	400	930	305	18	192													
MMD 80-200/37																										200	257	325		360	60	24	400	930	305	18	210													
MMD 80-250/37																										200	257	325		360	60	24	400	930	305	18	196													
MMD 100-200/22																										480	180	280	230	293	318	320	55	22	385	835	241	14	160											
MMD 100-200/30	200	257	325		360	60	24	400	930	305	18	202																																						
MMD 100-200/37	200	257	325		360	60	24	400	930	305	18	220																																						

DIMENSION
MMD 4 pole

DIMENSIONAL TABLE

Model	Dimension (mm)													Weight [Kg]																											
	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														
MMD4 32-125/0.25R	50			102	125	165	32			78	100	140	252	112	140	107	80	70	140	100	190	65	12	205	405	14	19.5														
MMD4 32-160/0.25													292	132	160				240		23																				
MMD4 32-200/0.75													340	160	180				255		30																				
MMD4 32-200/0.92													405	1801	225	149			100	95	250	125					320	240	50	255	425	31									
MMD4 32-250/1.1																																	47								
MMD4 32-250/1.5													49																												
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	65	12	230	405	14	20.5														
MMD4 40-125/0.37													292	132	160				240		21.5																				
MMD4 40-160/0.55													340	160	180				265		25																				
MMD4 40-200/1.1													405	180	225	149			100	95	250	125					320	212	50	285	485	36									
MMD4 40-200/1.5																																	47.5								
MMD4 40-250/1.5													54																												
MMD4 40-250/2.2							55																																		
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	65	12	246	425	14	25					
MMD4 50-125/0.55																						340	160	180				269		26											
MMD4 50-160/0.75																						360	160	180				285		32											
MMD4 50-160/0.92																						405	180	225	159			100	95	250	125					320	212	50	285	485	38
MMD4 50-200/1.1																																									
MMD4 50-200/1.5	40																																								
MMD4 50-250/2.2	57																																								
MMD4 50-250/3.0	63																																								
MMD4 65-125/0.75	80			138	160	200		65	122						145		185		185	340	160	180	118	95	125		212	125	280	65	12	286	445	14	32						
MMD4 65-160/1.1																				360	160	200					149		288						37.5						
MMD4 65-160/1.5																				405	180	225					159		288						40						
MMD4 65-200/2.2																				405	180	225	159				100	95	250	125					320	212	50	285	485	33	
MMD4 65-200/3.0							33																																		
MMD4 65-250/4.0							38																																		
MMD4 65-250/5.5				40																																					
MMD4 65-250/5.5				51																																					
MMD4 65-250/5.5				57																																					
MMD4 65-250/5.5				80																																					
MMD4 65-250/5.5				90																																					

DIMENSION
MMD 4 pole

DIMENSIONAL TABLE

Model	Dimension (mm)																				Weight [Kg]					
	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
MMD4 80-160/1.5	100	8	18	158	180	220	80	4	138	160	200	405	180	225	149	125	95	250	125	320	65	14	330	510	14	45
MMD4 80-160/2.2																										51
MMD4 80-200/3.0																										66
MMD4 80-250/4.0																										73
MMD4 80-250/5.5	125	8	18	188	210	250	100	18	158	180	220	430	225	159	125	120	120	315	160	400	80	14	355	560	18	96
MMD4 80-250/7.5																										106
MMD4 100-200/4.0																										78
MMD4 100-200/5.5																										90
MMD4 100-250/7.5	150	8	18	188	210	250	100	18	158	180	220	505	225	184	140	120	120	315	160	400	80	14	385	665	18	112
MMD4 100-250/9.2																										118
MMD4 125-200/5.5																										124
MMD4 125-200/7.5R																										134
MMD4 125-200/7.5	200	22	18	212	240	285	125	8	188	210	250	565	315	255	140	160	160	315	160	400	80	14	470	700	18	140
MMD4 125-200/9.2																										162
MMD4 125-200/11																										190
MMD4 125-250/15																										167
MMD4 150-200/7.5	250	12	22	212	240	285	150	22	212	240	285	680	280	400	160	155	450	200	550	100	22	550	855	24	173	
MMD4 150-200/9.2																									175	
MMD4 150-200/11																									203	
MMD4 150-200/15																									278	
MMD4 200-250/18.5R	250	12	22	268	295	340	150	22	268	295	340	765	315	450	200	155	450	200	550	100	22	630	1000	24	278	
MMD4 200-250/18.5																									300	
MMD4 200-250/22																										
MMD4 200-250/22																										