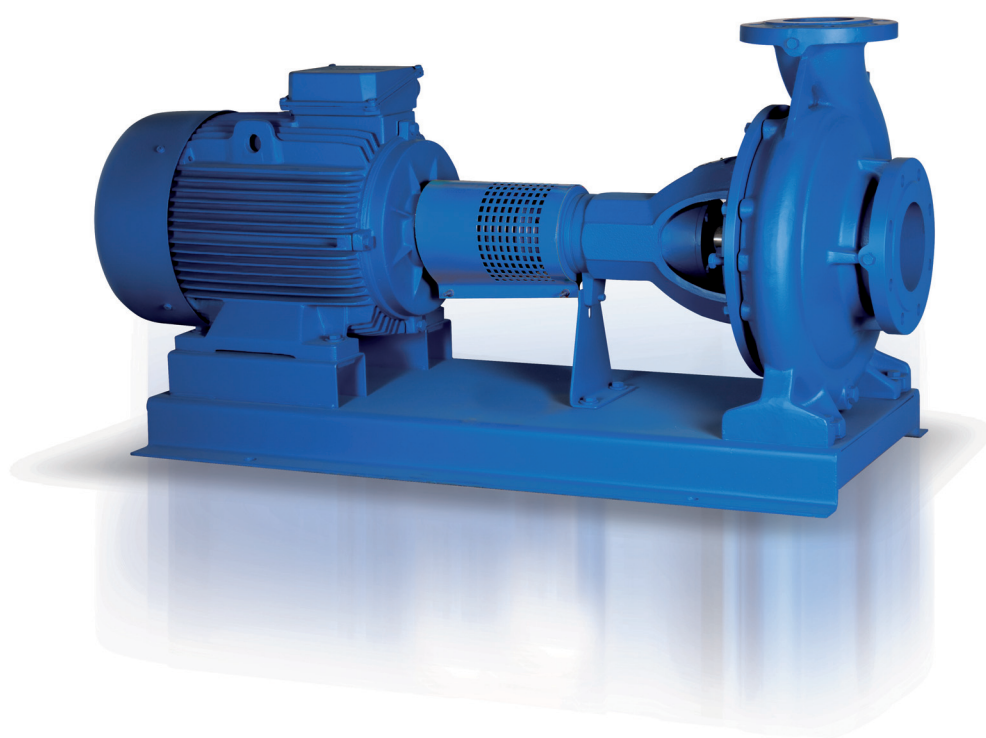


Norm centrifugal pump

Technical data
Serie: DPNT C



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1 Introduction

1.1 Fields of Application

- Water supply and booster stations
- Irrigation, overhead irrigation and draining
- Drainage stations
- Filling and emptying of tanks and containers
- Circulating of hot and cold water in central heating and air-conditioning installations
- Pumping of condensate
- Water circulating for swimming pools
- Sanitary and cleaning installations
- For industrial applications and public services
- Fresh water supply on ships

1.2 Pumped Liquids

Thin, clean, non-aggressive and non-explosive liquids free from large solid particles or fibres.

1.3 Design

- Single-stage, end suction, centrifugal volute pump
- Main dimensions according to EN 733 (DIN 24255)
- Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced
- Pump and motor are separate components, connected to each other via a flexible coupling and mounted on a common base plate
- The impeller shaft and other rotating parts being removable with no need to disconnect the suction and delivery pipes
- Maximum interchangeability of components, identical parts can be used with various sizes of a pump, which greatly simplifies and reduces stock of spare parts

1.4 Bearings

The pump has sturdy maintenance-free anti friction bearings, which are greased for life with high temperature grease. A deflector on the shaft prevents fluid leakage in to the bracket

1.5 Shaft Seal

Burgmann MG1

- Single Seal
- Unbalanced
- Elastomer Bellows
- Independent on direction of rotation
- $p = 12 \text{ bar}$
- $t = -20 \dots 120 \text{ °C}$

1.6 Materials

Component	Material
Casing	0.6025 / GJL-250
Back cover	0.6025 / GJL-250
Impeller	0.6025 / GJL-250
Shaft	1.4021 / X20 Cr 13
Shaft sleeve	1.4021 / X20 Cr 13
Wear ring ¹	2.1050.01 / G-Cu Sn 10
Gland	0.7040 / GJS-400-15
Bearing housing and cover	0.6025 / GJL-250

1. Wearing rings and shaft sleeves are upon request

*Other materials for casing, back cover, impeller on request, see model key.

1.7 Model key

The pumps are designated as according to the following table

DPNT	C	32-	160	/ 146	2P-50Hz	3,0 kW	-D	- K
DPNT								Pump series norm
	C							Casing material C = Cast iron GG25 (DP standard) D = Nodulair Cast Iron GGG40 E = Cast Bronze G-CuSn 10 F = Chrome Nickel Steel X5 Cr Ni 18.9 G = Chrome Nickel Molybdeen Steel X5 Cr Ni Mo 18.10
		32						Pump type = size discharge connection PN16
			160					Nominal diameter impeller
				146				Reduced diameter impeller in mm
					2P-50 Hz			2P-50 Hz 4P-50Hz 2P-60 Hz 4P-60 Hz xx = bare shaft
						3.0 kW		Motor power P2 in kW
							D	Impeller material - = GG25 - DP standard D = Nodulair Cast Iron GGG40 E = Cast Bronze G-CuSn 10 F = Chrome Nickel Steel X5 Cr Ni 18.9 G = Chrome Nickel Molybdeen Steel X5 Cr Ni Mo 18.10
							K	Mechanical seal (Burgman) - = MG1 DP standard K = M7N - M74N - M78N L = M3N - M32N - M37N - M37GN M = HJ92 - HJ977N - SHJ97G N = BT-AR X = special

1.8 Motor data

B5 flanged, IP 55 and according to IEC electric motors are used for DPNT series pumps. The motors are suitable for inverter usage according IEC 60034.

Table 1: Motor data 50Hz 2 pole

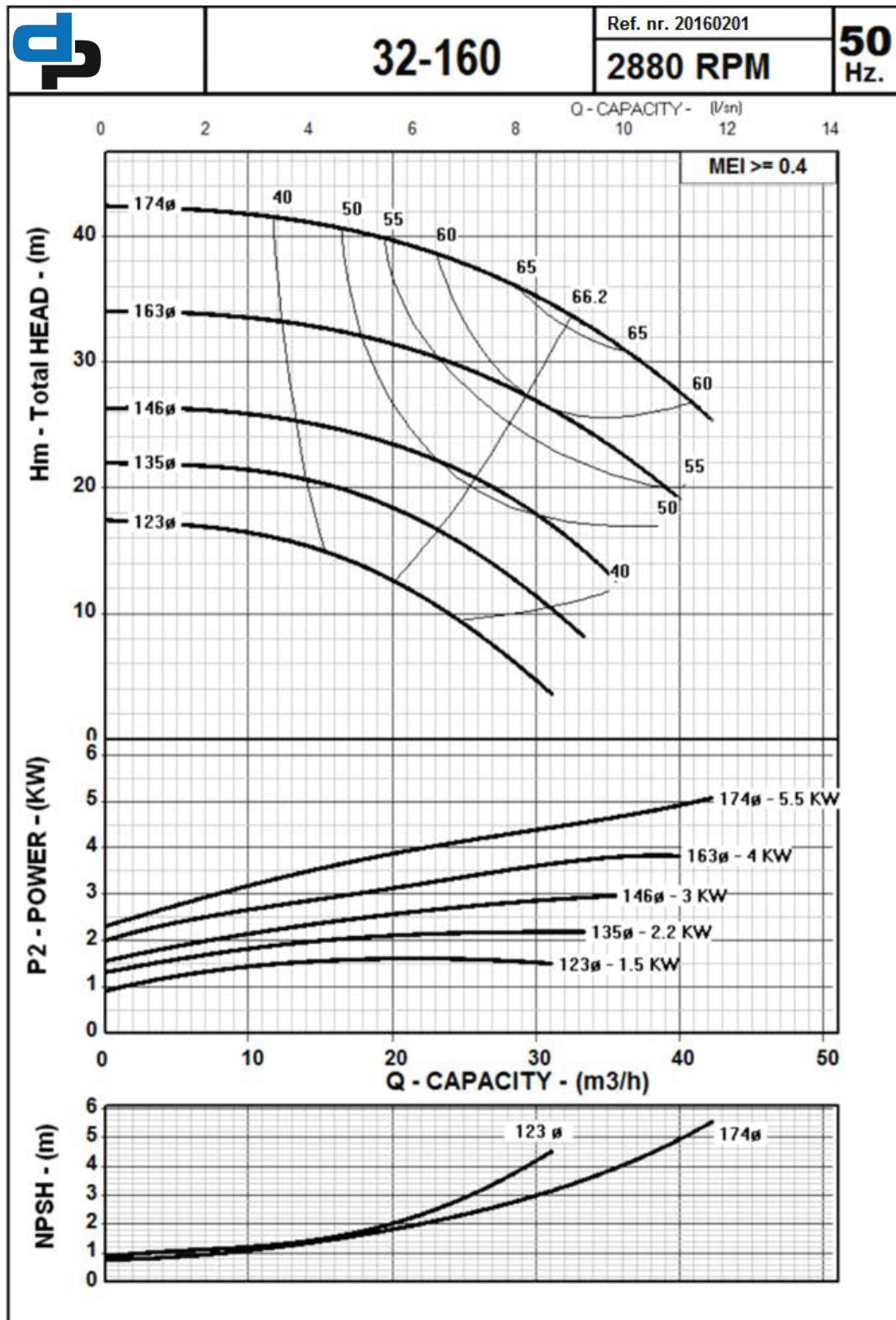
Power	Inom [A]	Ia/In	Cos phi	Eff [%]	Motor voltage [V]	n [rpm]	IEC con- nection	mass [kg]	Sound pressure level dB(A)
1,5	5,7	8,2	0,78	81,3	230/400	2890	90L2	17,5	62
2,2	7,6	8,3	0,89	83,2	230/400	2880	90L2	18	62
3	10,0	9,6	0,88	84,6	230/400	2885	100L2	26	64
4	7,7	9,5	0,87	85,8	400/692	2895	112M2	31	67
5,5	10,2	9,2	0,87	87	400/692	2935	132S2	47	70
7,5	13,6	9,1	0,9	88,1	400/692	2920	132M2	53	70
11	19,4	9,8	0,9	89,4	400/692	2945	160M2	70	71
15	25,7	8,9	0,92	90,3	400/692	2935	160L2	82	71
18,5	31,4	10,6	0,92	90,9	400/692	2935	160L2	92	71
22	38,6	7,8	0,90	91,3	400/692	2945	180M2	112	77
30	55,1	8,2	0,85	92	400/692	2960	200L2	168	80
37	65	8,7	0,90	92,5	400/692	2960	200L2	179	80
45	82,1	8,6	0,85	92,9	400/692	2960	225M2	235	81

Table 2: Motor data 50Hz 4 pole

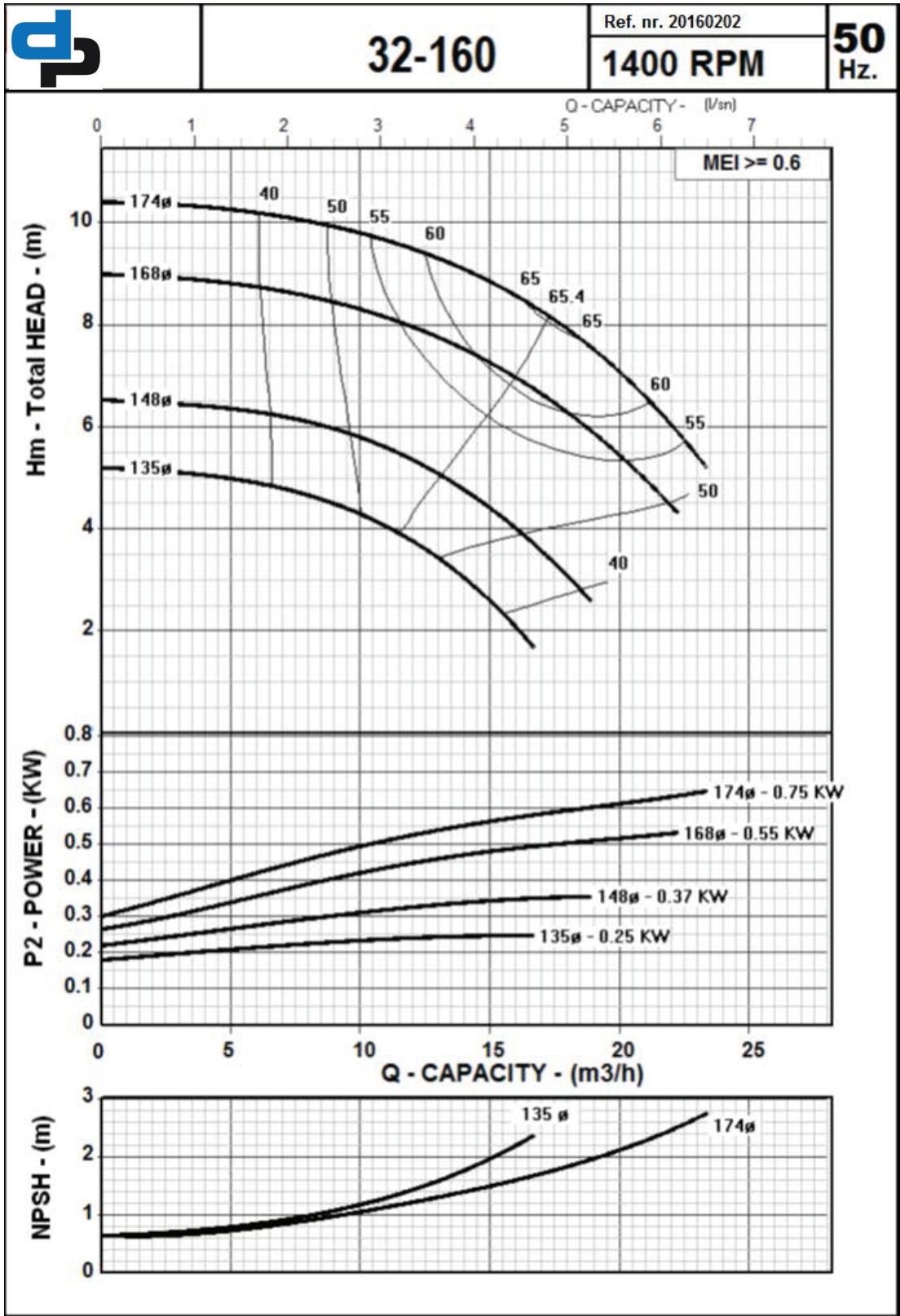
Power	Inom [A]	Ia/In	Cos phi	Eff [%]	Motor voltage [V]	n [rpm]	IEC connection	mass [kg]	Sound pressure level dB(A)
0,25	1,2	4,6	0,7	68,5	230/400	1415	71M4	8,5	45
0,37	1,9	4,6	0,71	72,7	230/400	1405	71M4	8,5	45
0,55	2,5	5	0,73	77,1	230/400	1425	80M4	11,5	49
0,75	3,3	5,5	0,72	79,6	230/400	1430	80M4	12,5	49
1,1	4,2	7	0,83	81,4	230/400	1430	90L4	17,5	54
1,5	5,9	7,3	0,75	82,8	230/400	1440	90L4	18	55
2,2	8,7	7,5	0,73	84,3	230/400	1440	100L4	25	56
3	11,4	7,5	0,75	85,5	230/400	1435	100L4	26	56
4	8,4	8,6	0,79	86,6	400/692	1450	112M4	34	58
5,5	11,3	7,4	0,78	87,7	400/692	1460	132M4	55	61
7,5	15	9,5	0,81	88,7	400/692	1460	132M4	57	61
11	22,2	6,3	0,79	89,8	400/692	1460	160M4	77	63
15	28,8	6,3	0,83	90,6	400/692	1460	160L4	92	63
18,5	37,3	8	0,80	91,2	400/692	1460	180M4	126	69
22	41,4	8,2	0,84	91,6	400/692	1460	180L4	135	69
30	55,7	8	0,85	92,3	400/692	1470	200L4	183	70
37	69	8,2	0,84	92,7	400/692	1480	225M4	260	71
45	83,3	8,2	0,83	93,1	400/692	1480	225M4	280	71

2 Performance curves 50 Hz

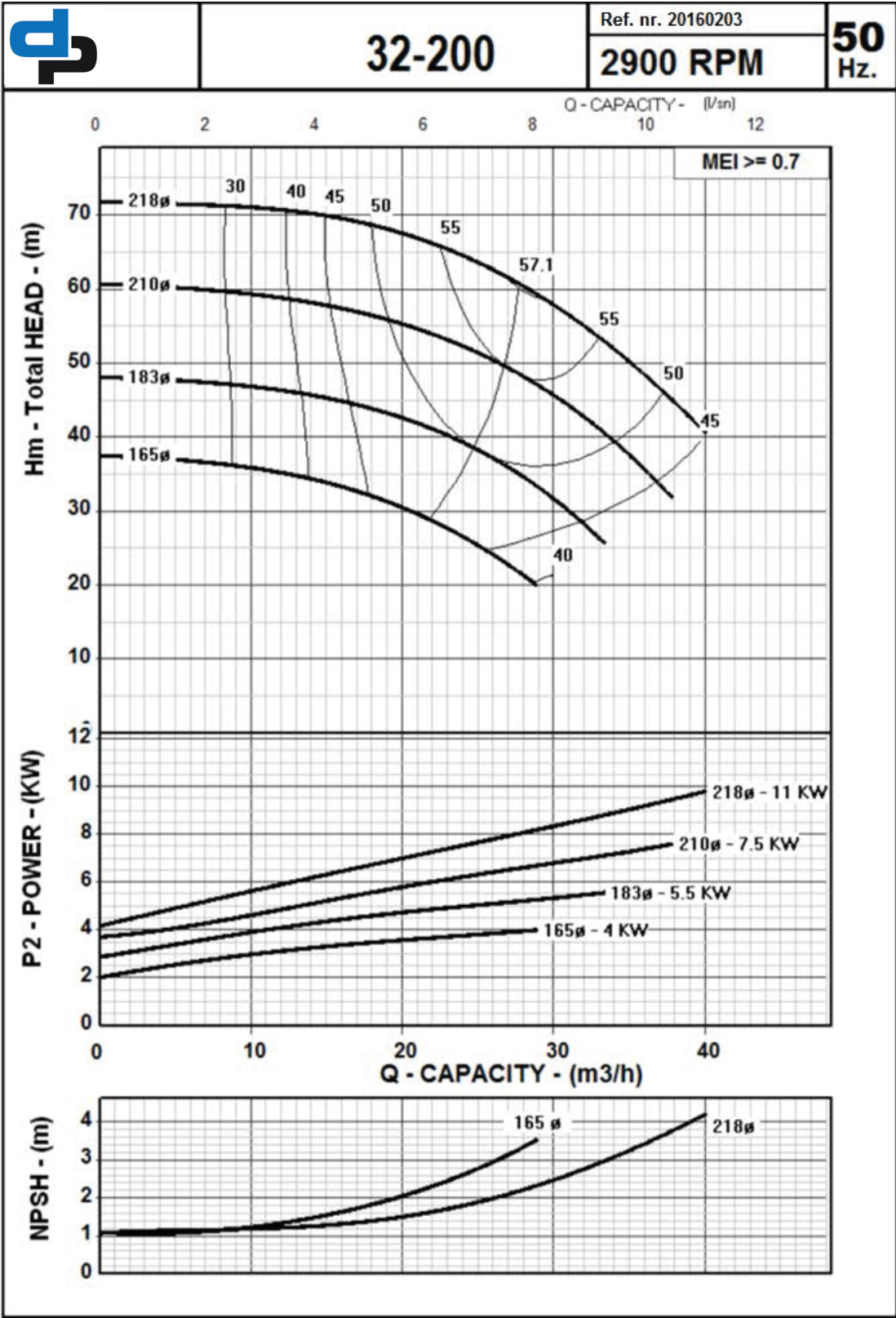
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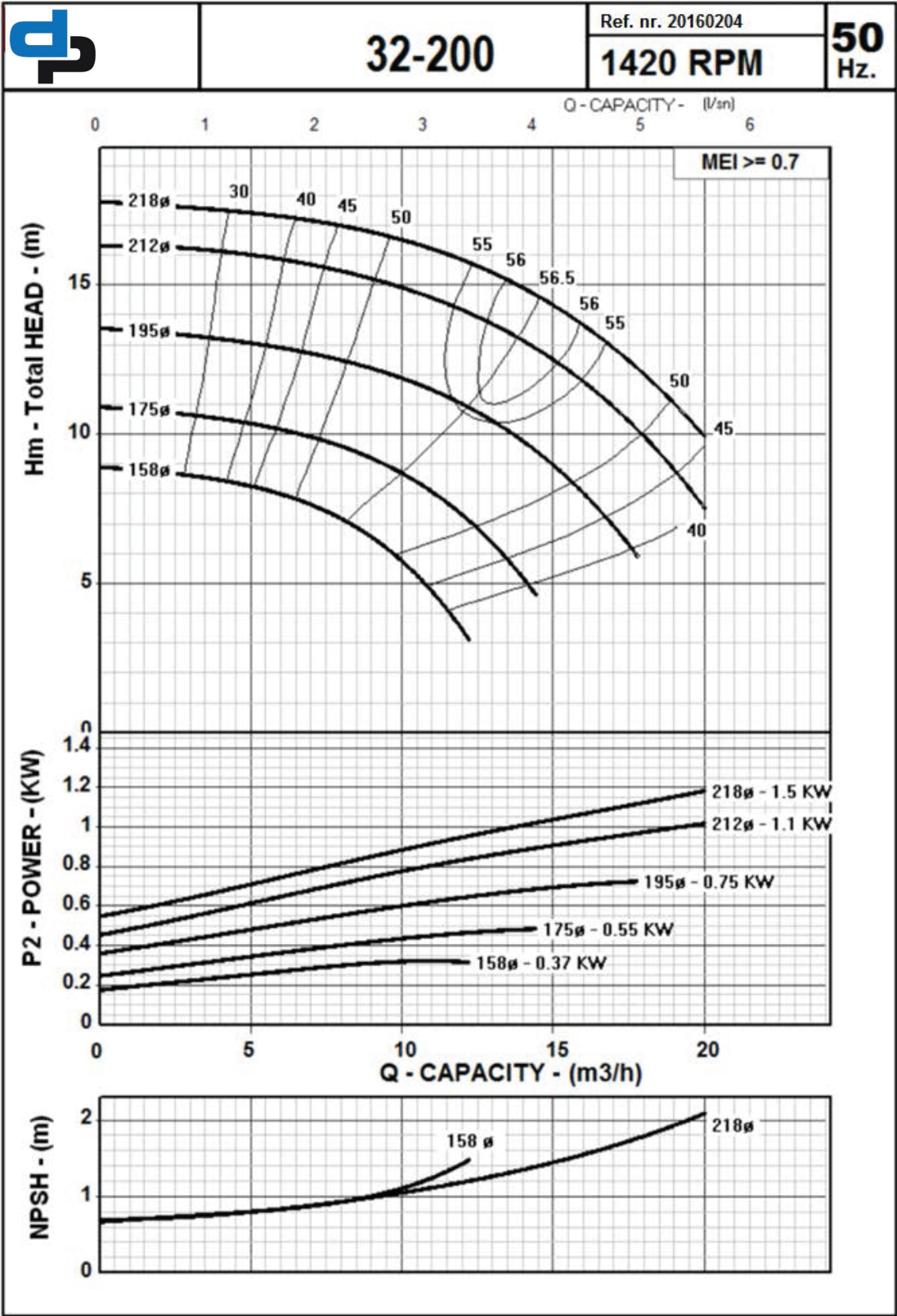
2.2 DPNT 32-160 4P



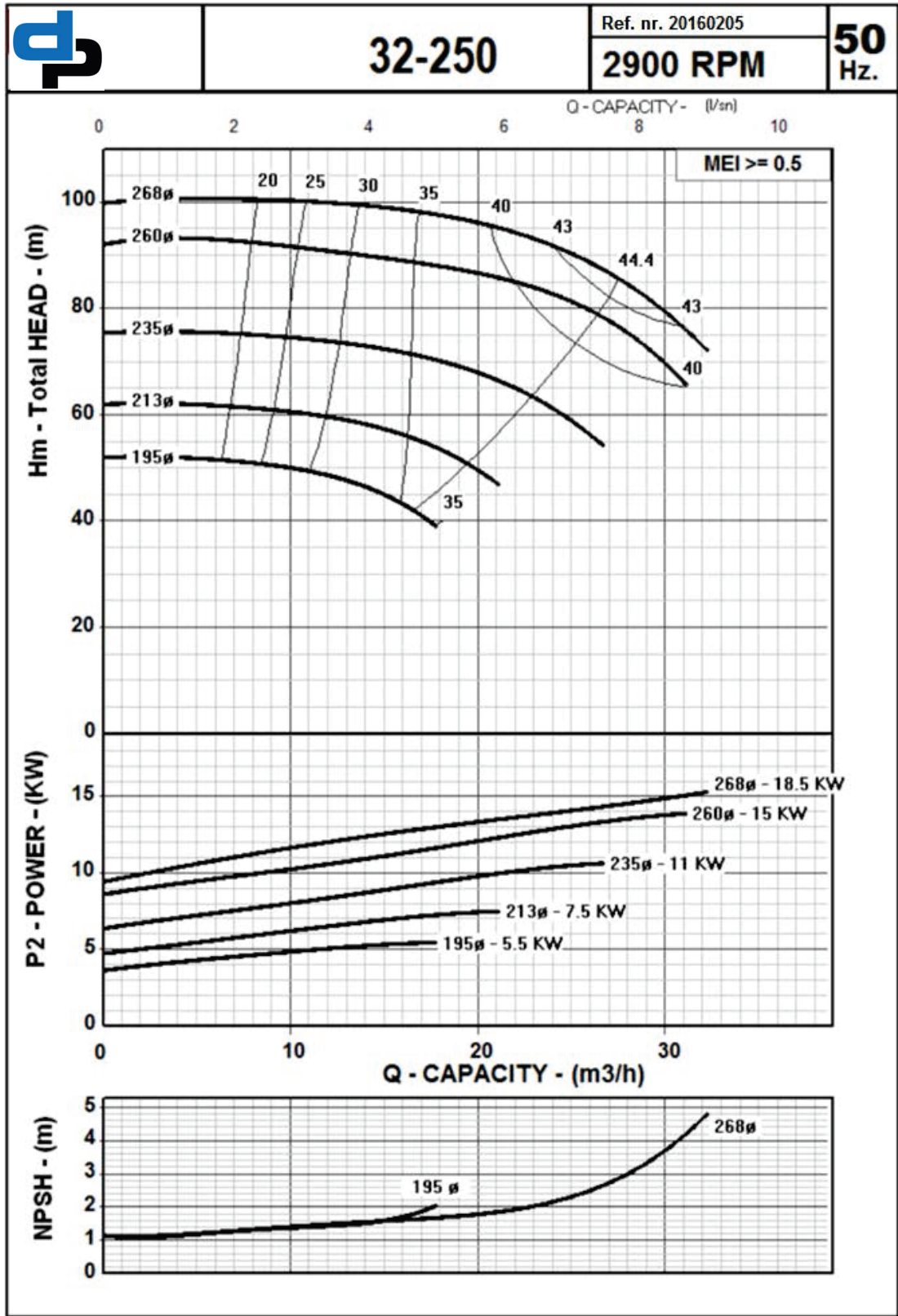
2.3 DPNT 32-200 2P



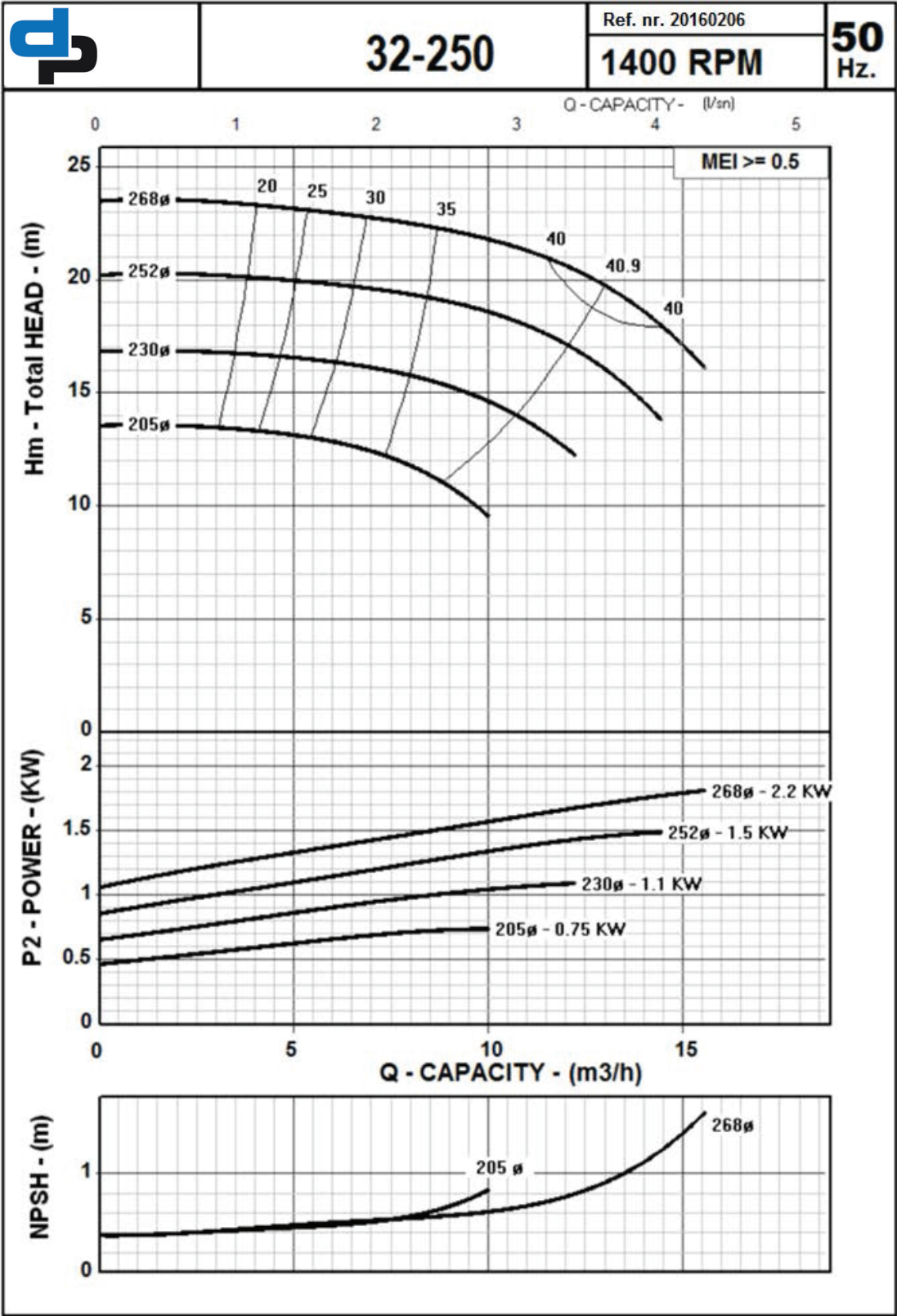
2.4 DPNT 32-200 4P



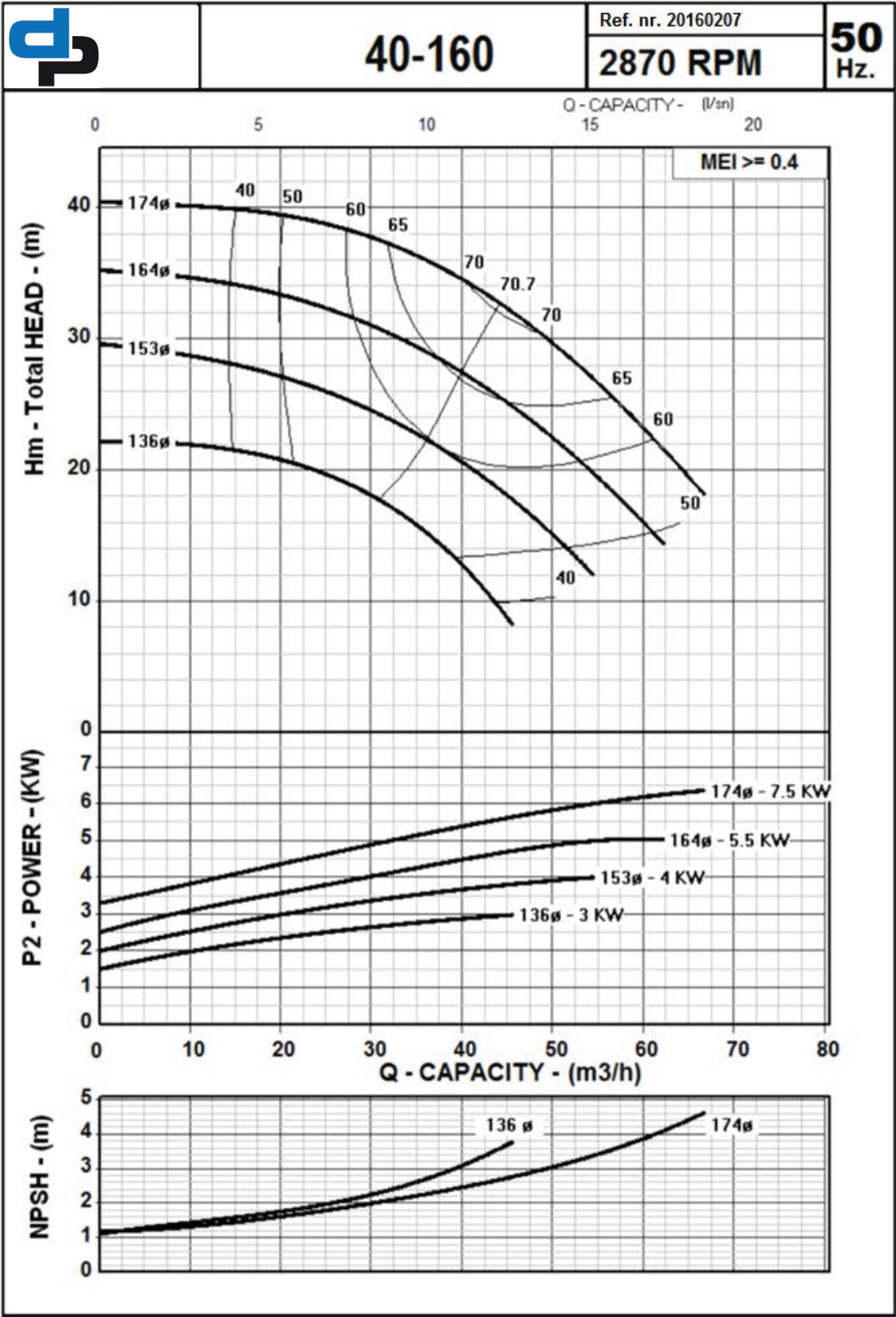
2.5 DPNT 32-250 2P



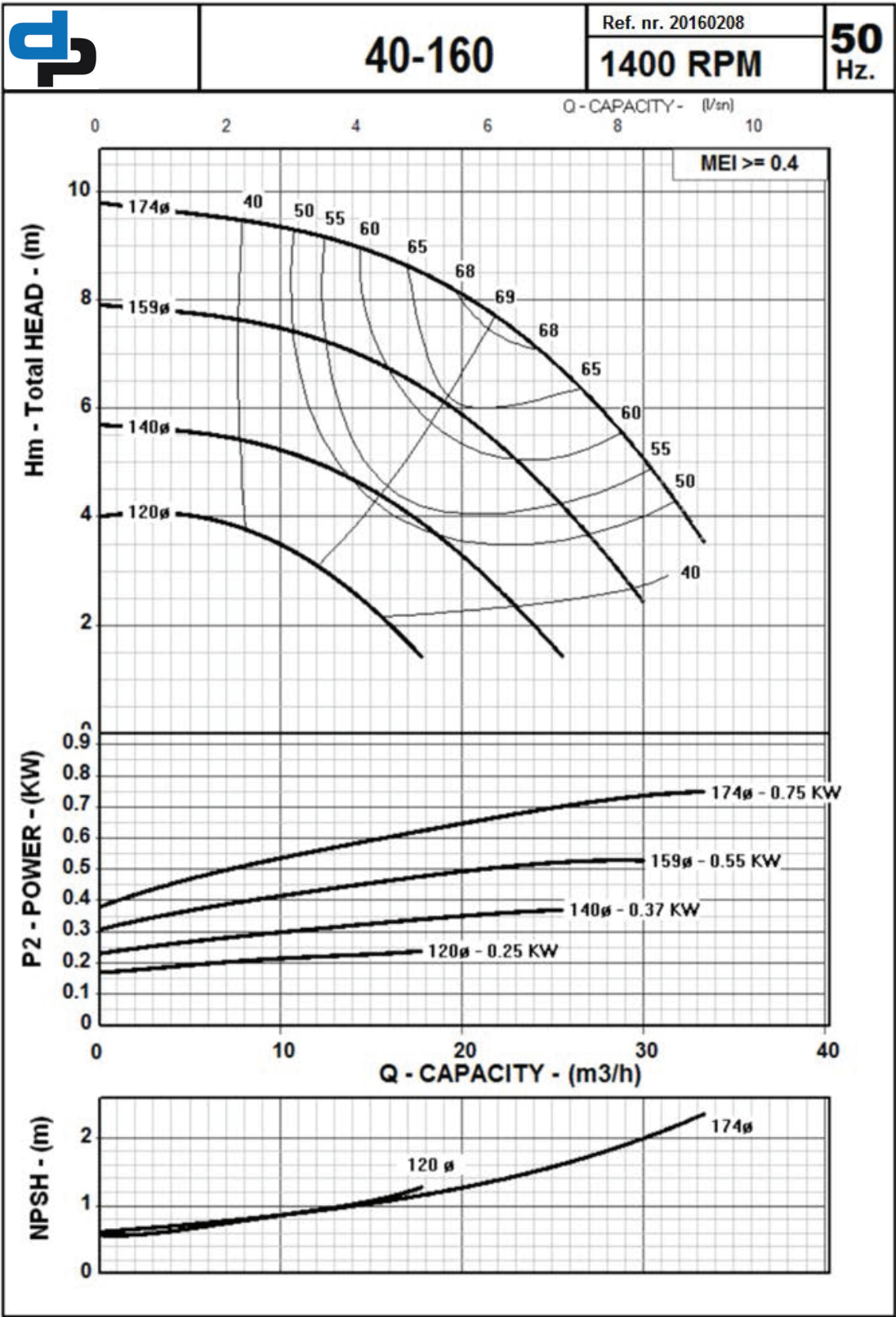
2.6 DPNT 32-250 4P



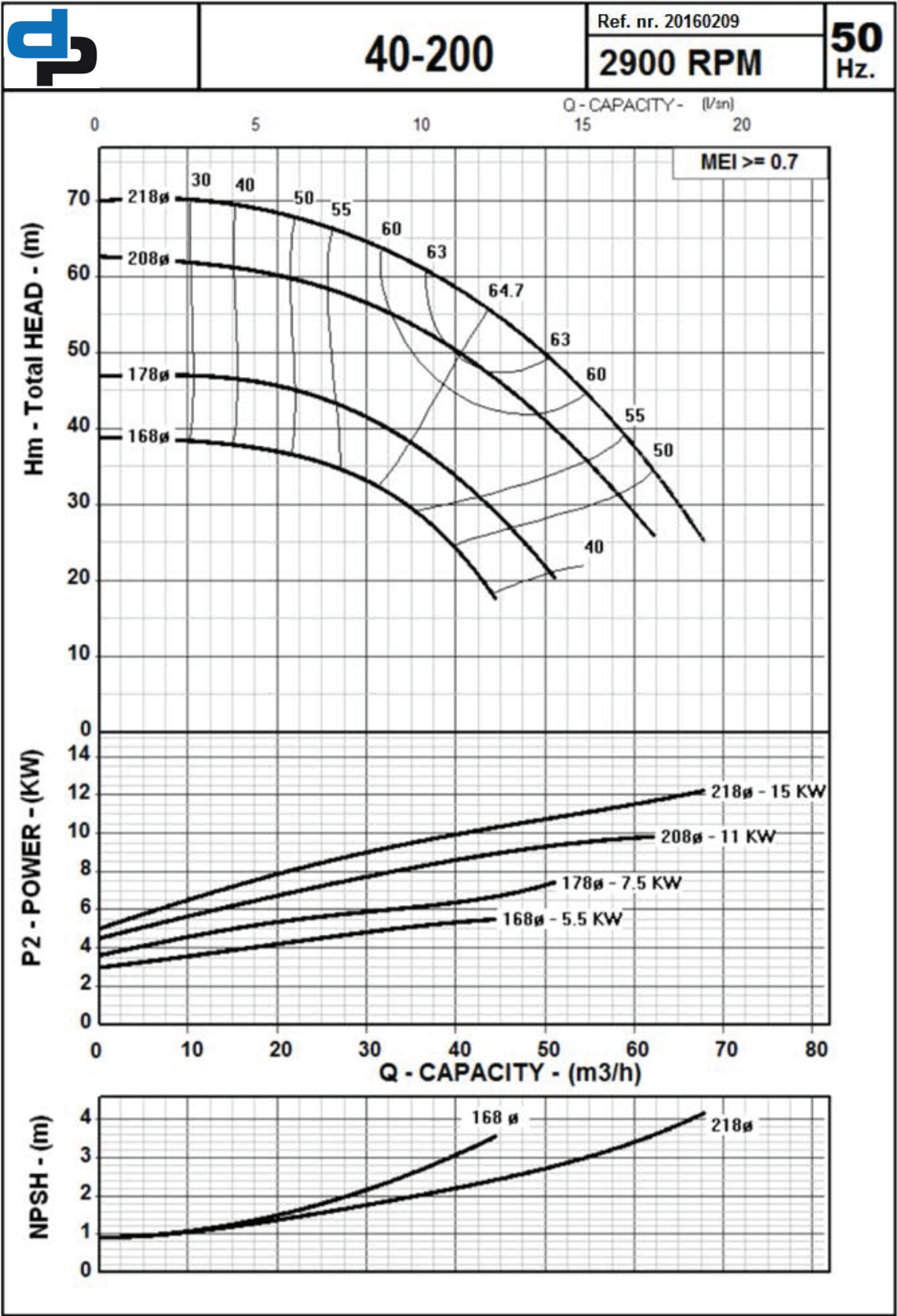
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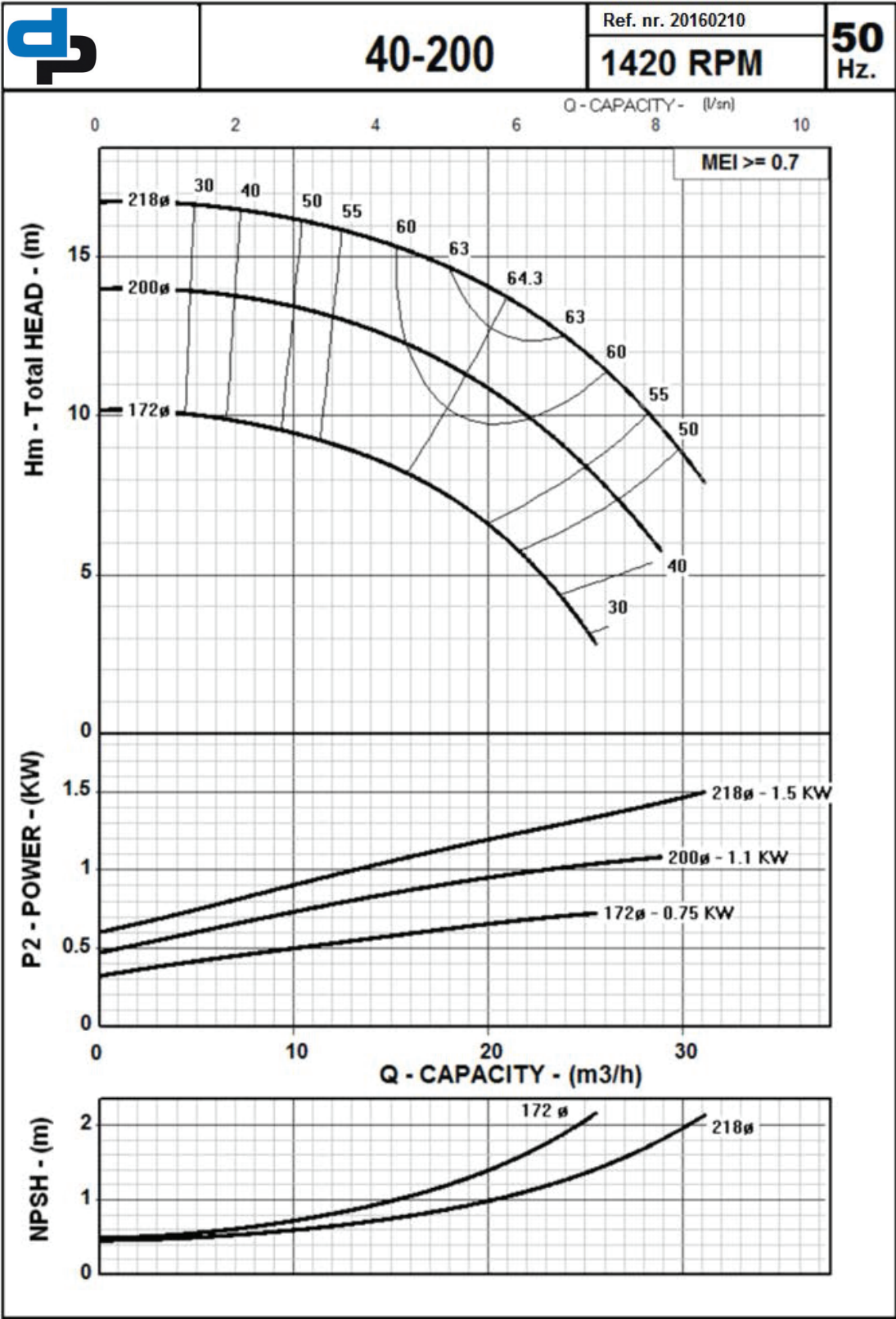
2.8 DPNT 40-160 4P



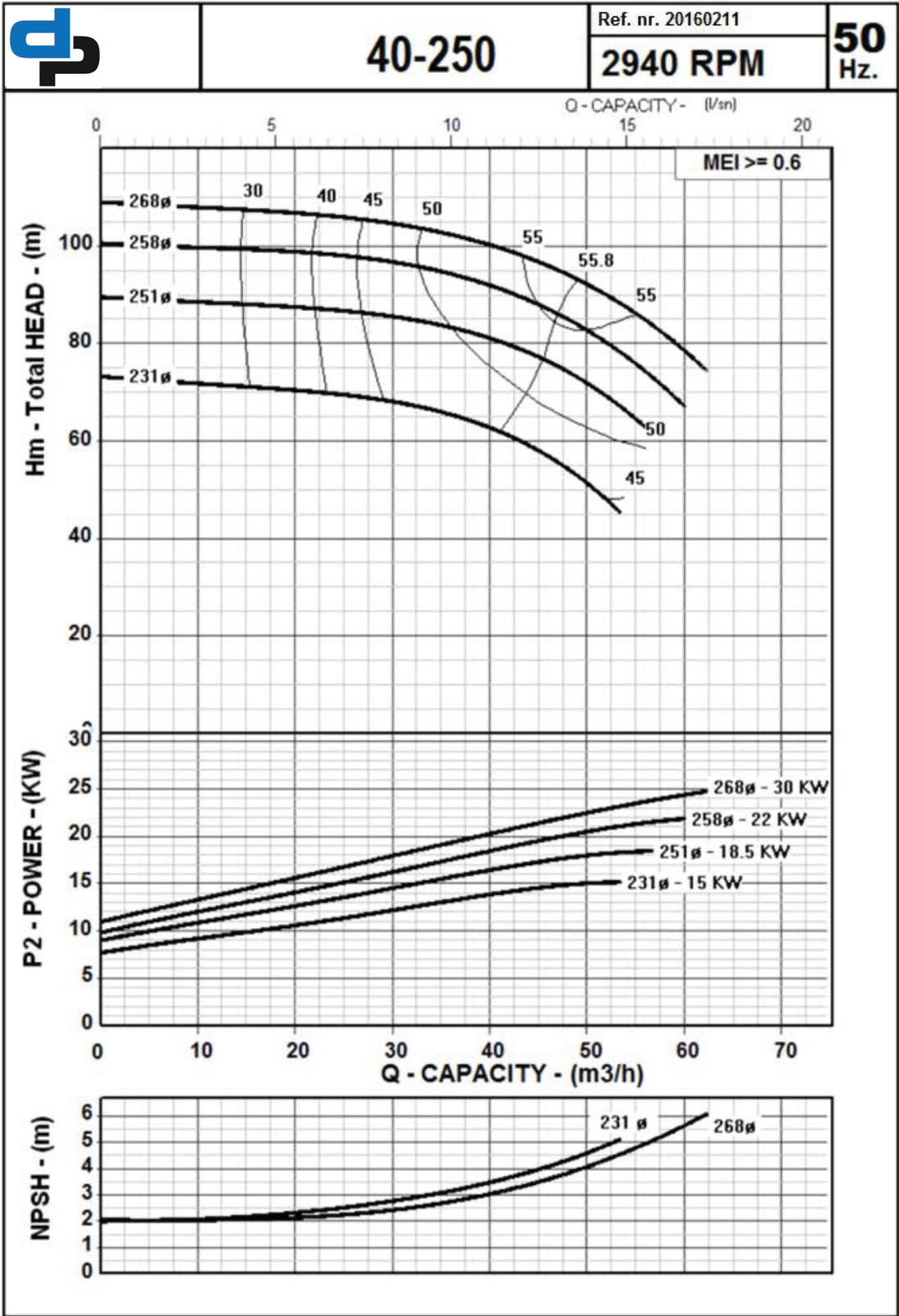
2.9 DPNT 40-200 2P



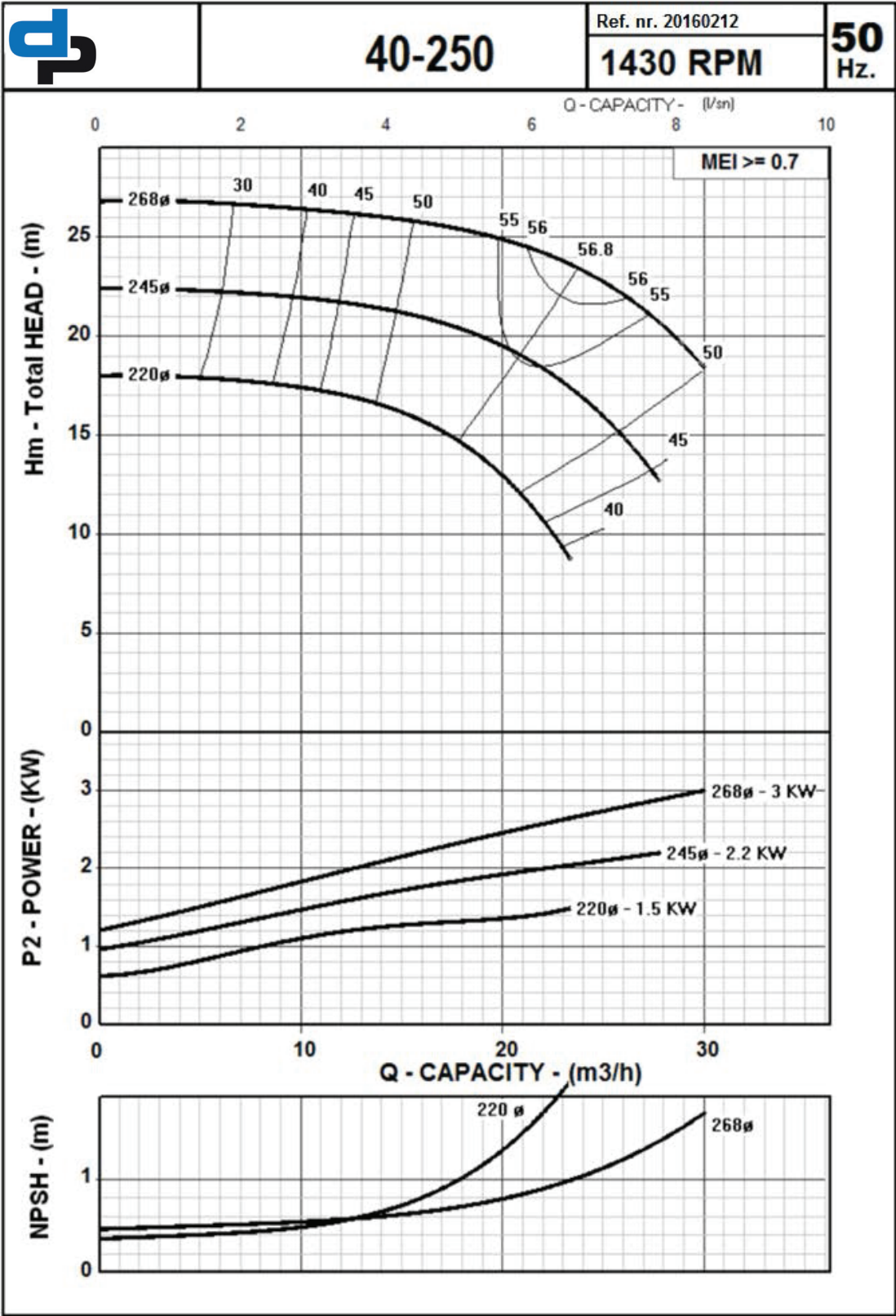
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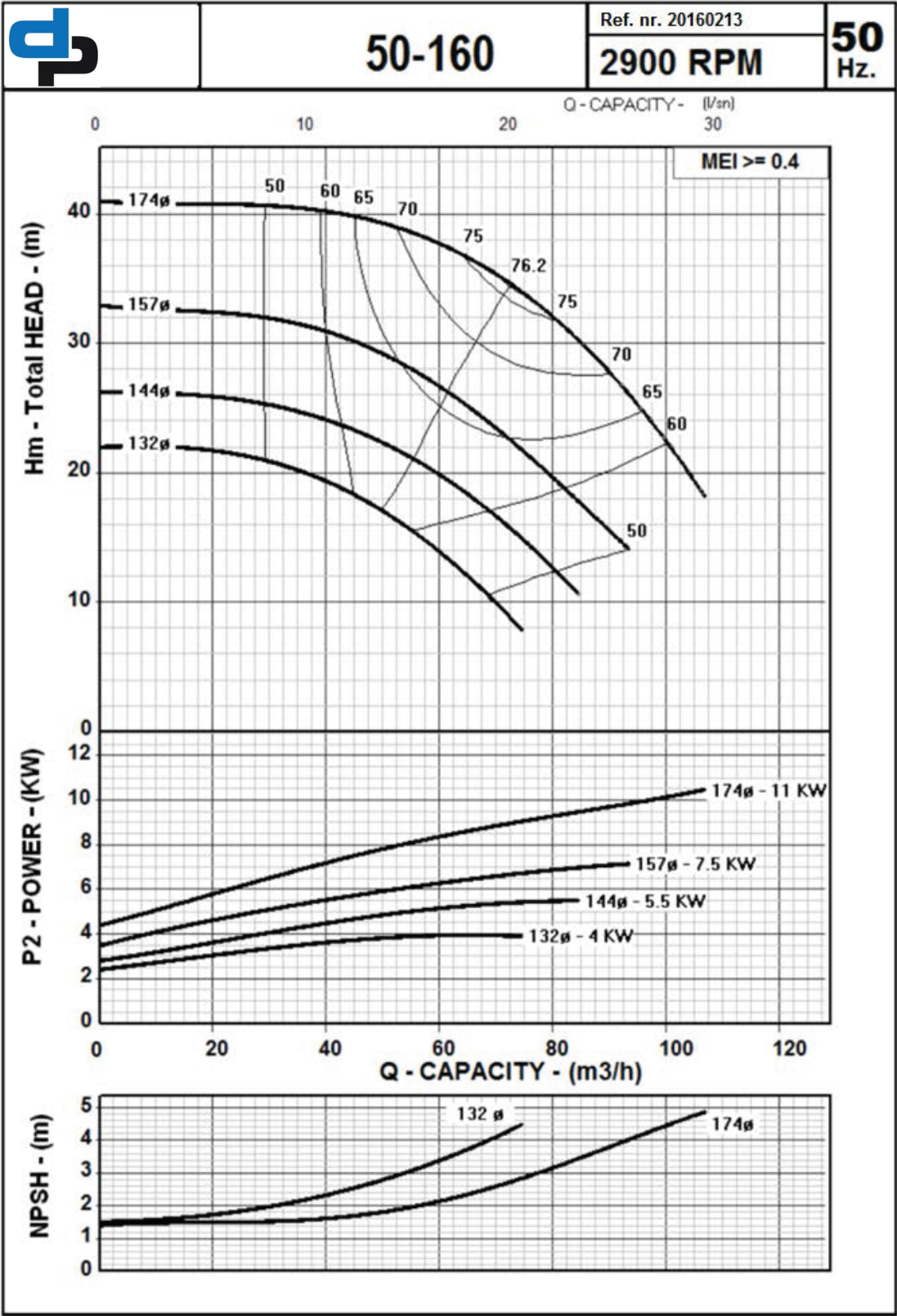
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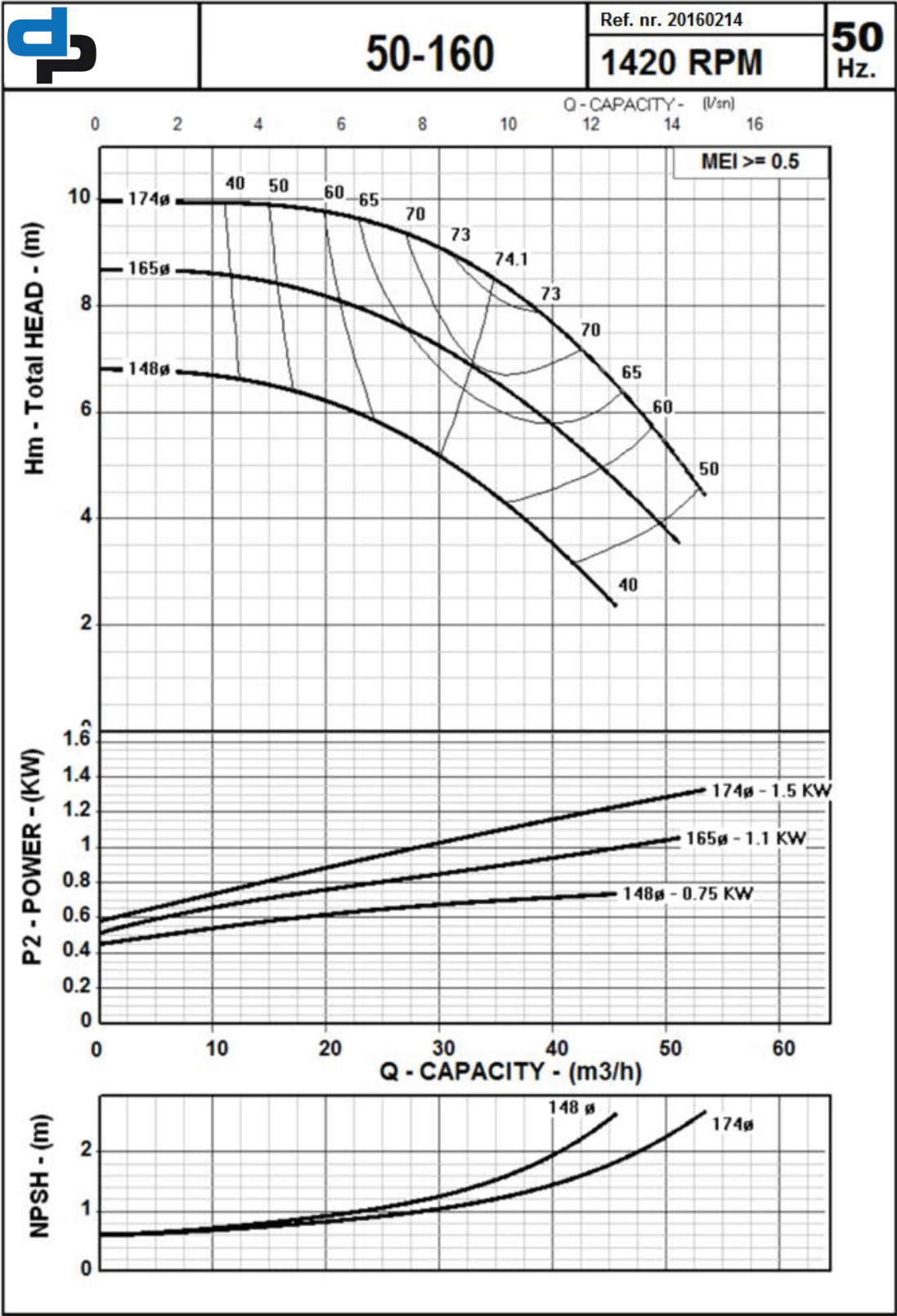
2.12 DPNT 40-250 4P



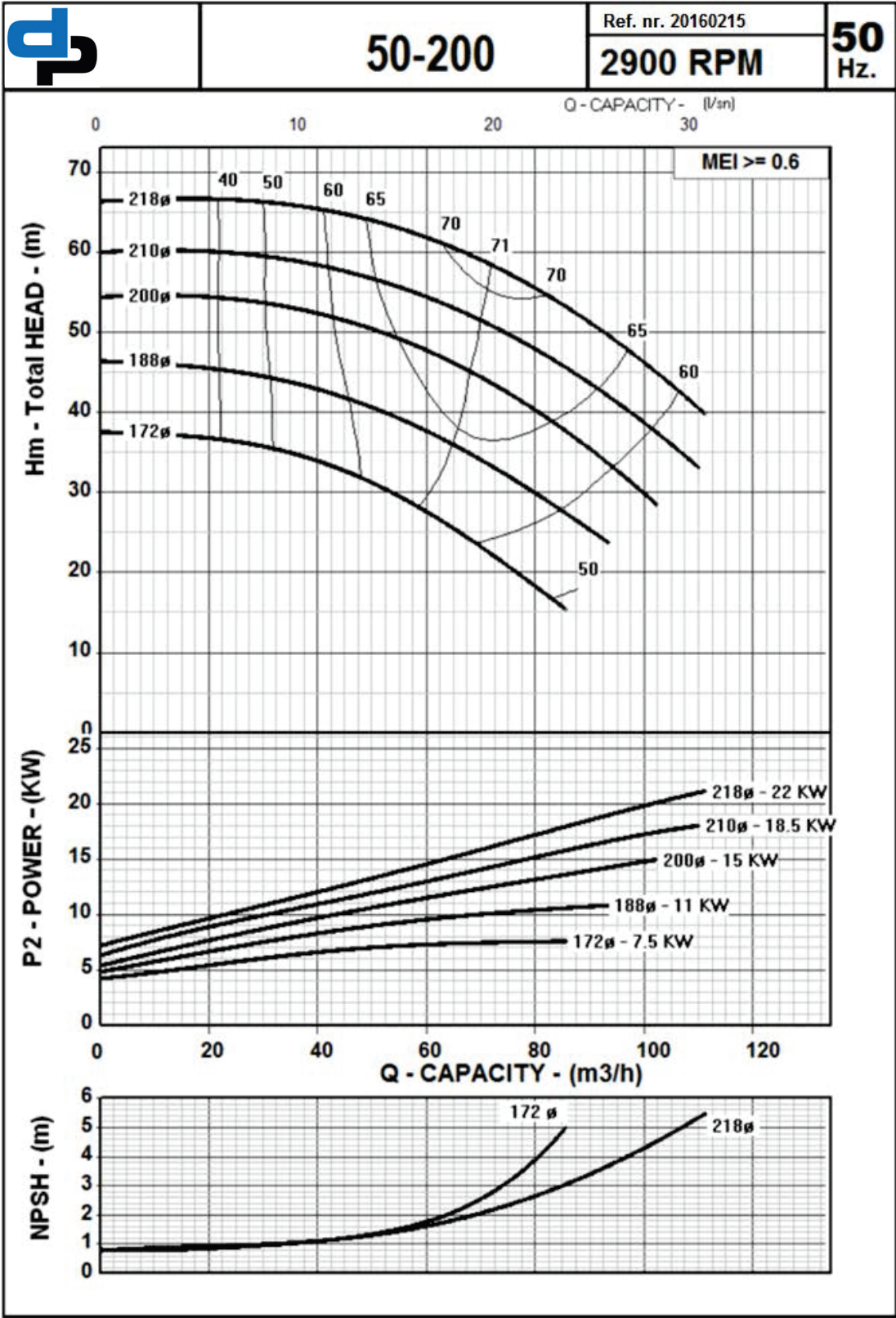
2.13 DPNT 50-160 2P



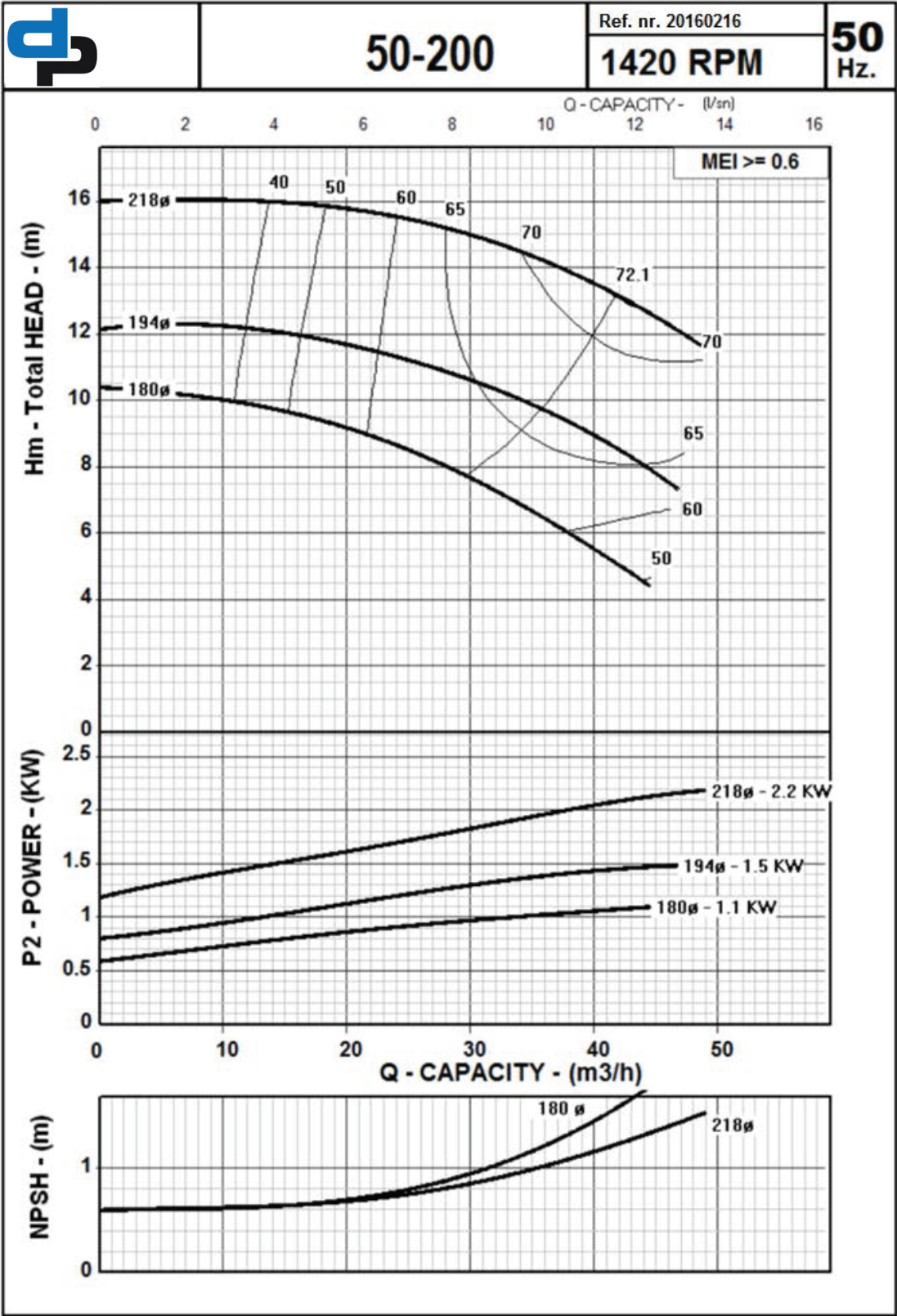
2.14 DPNT 50-160 4P



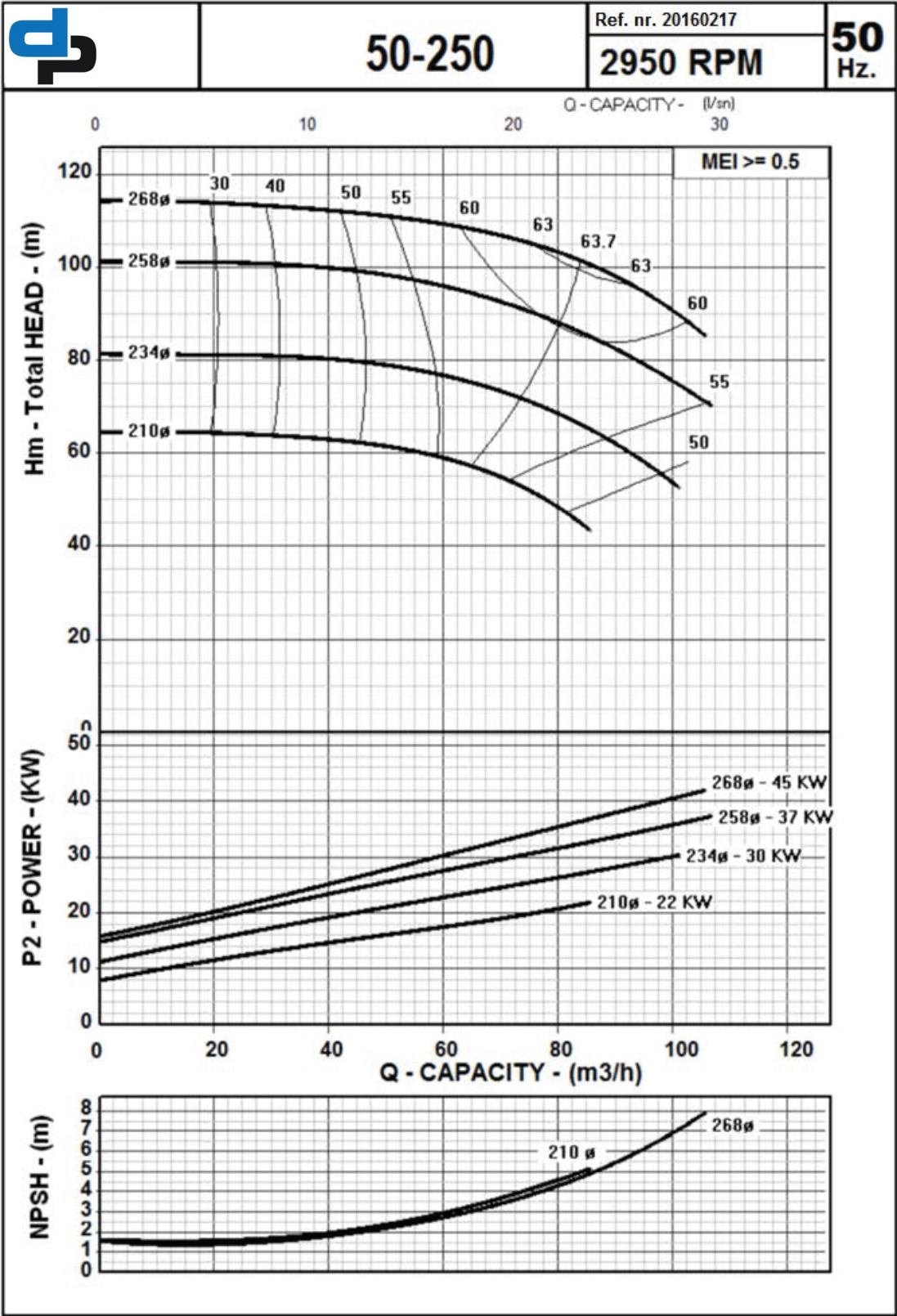
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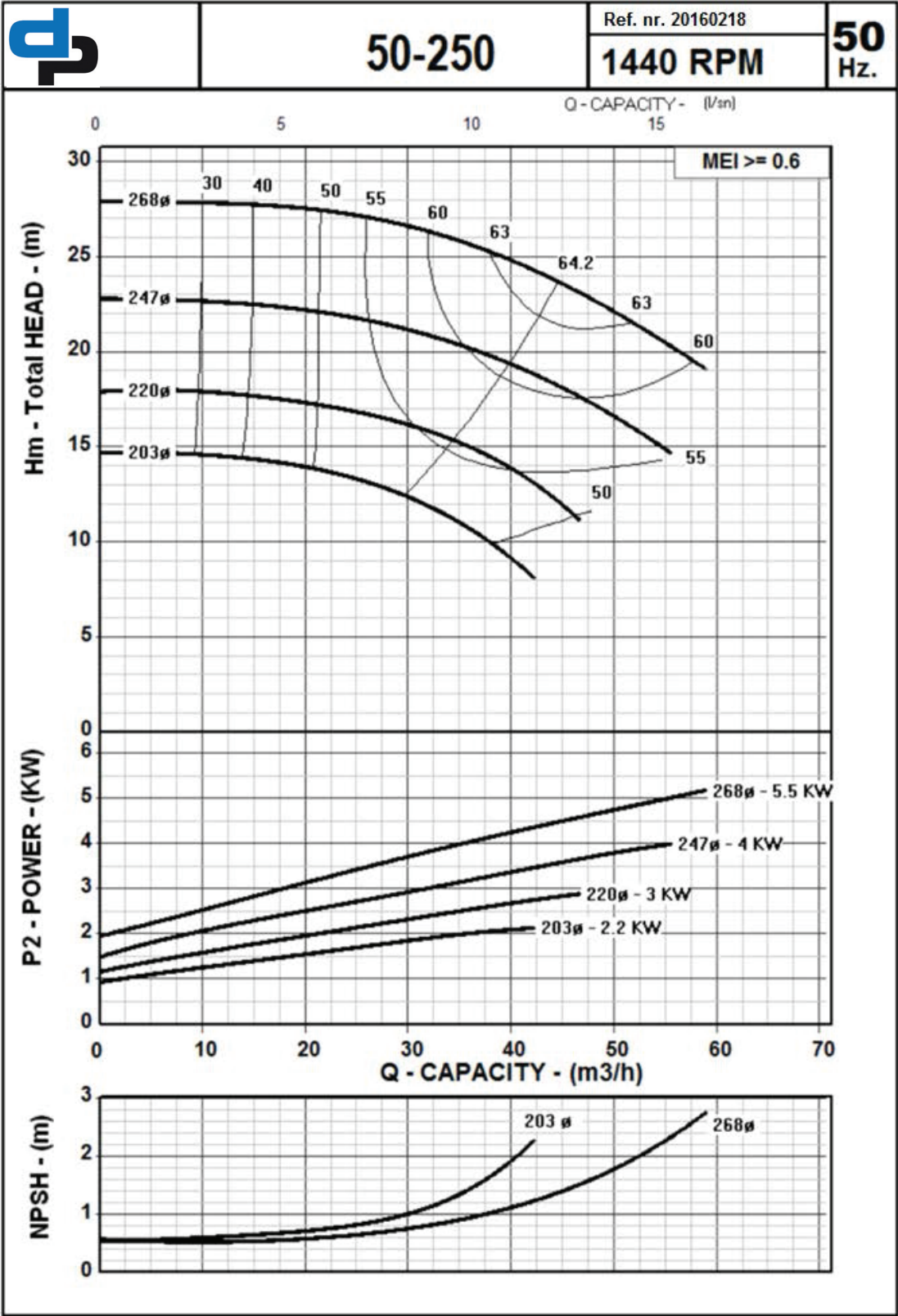
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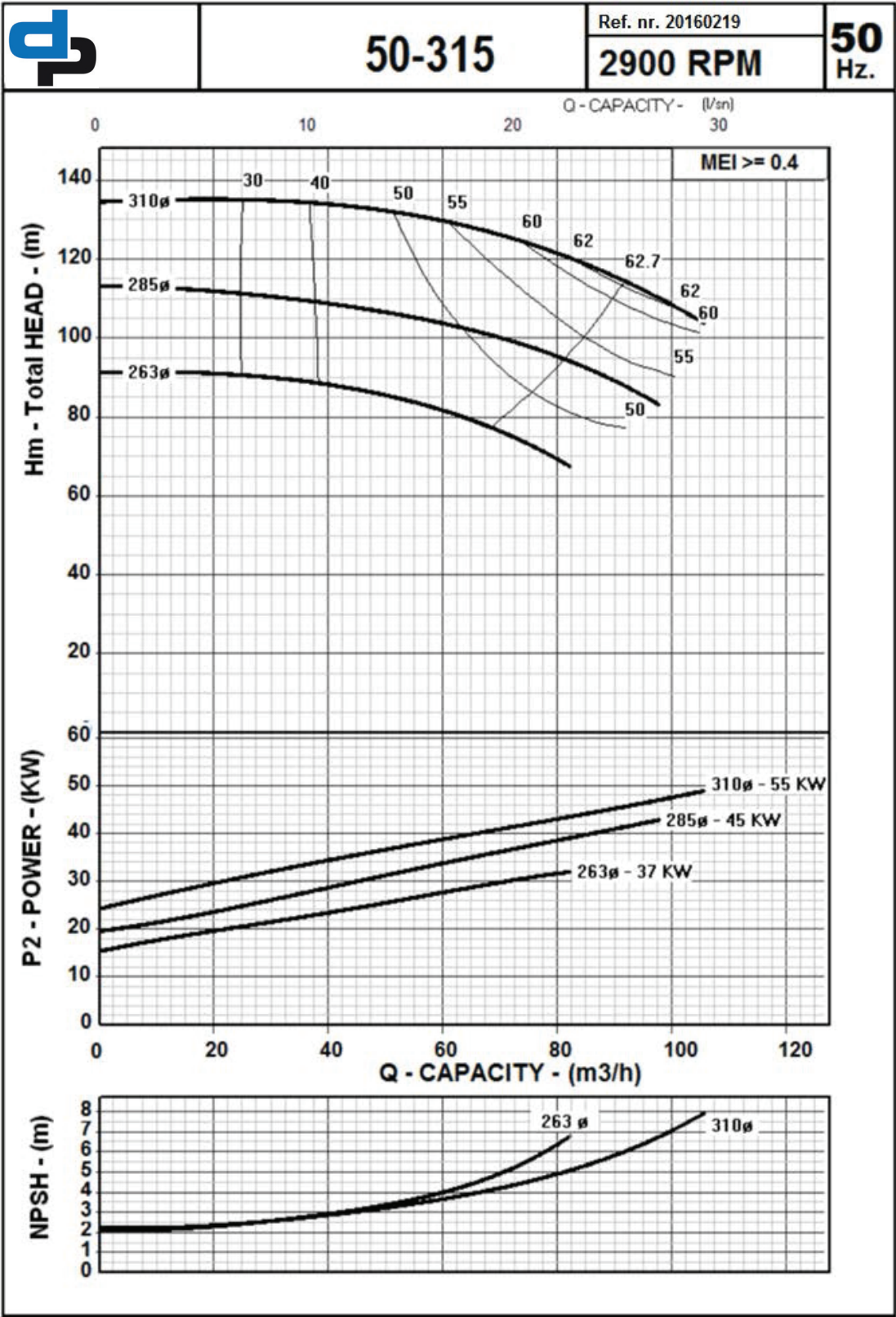
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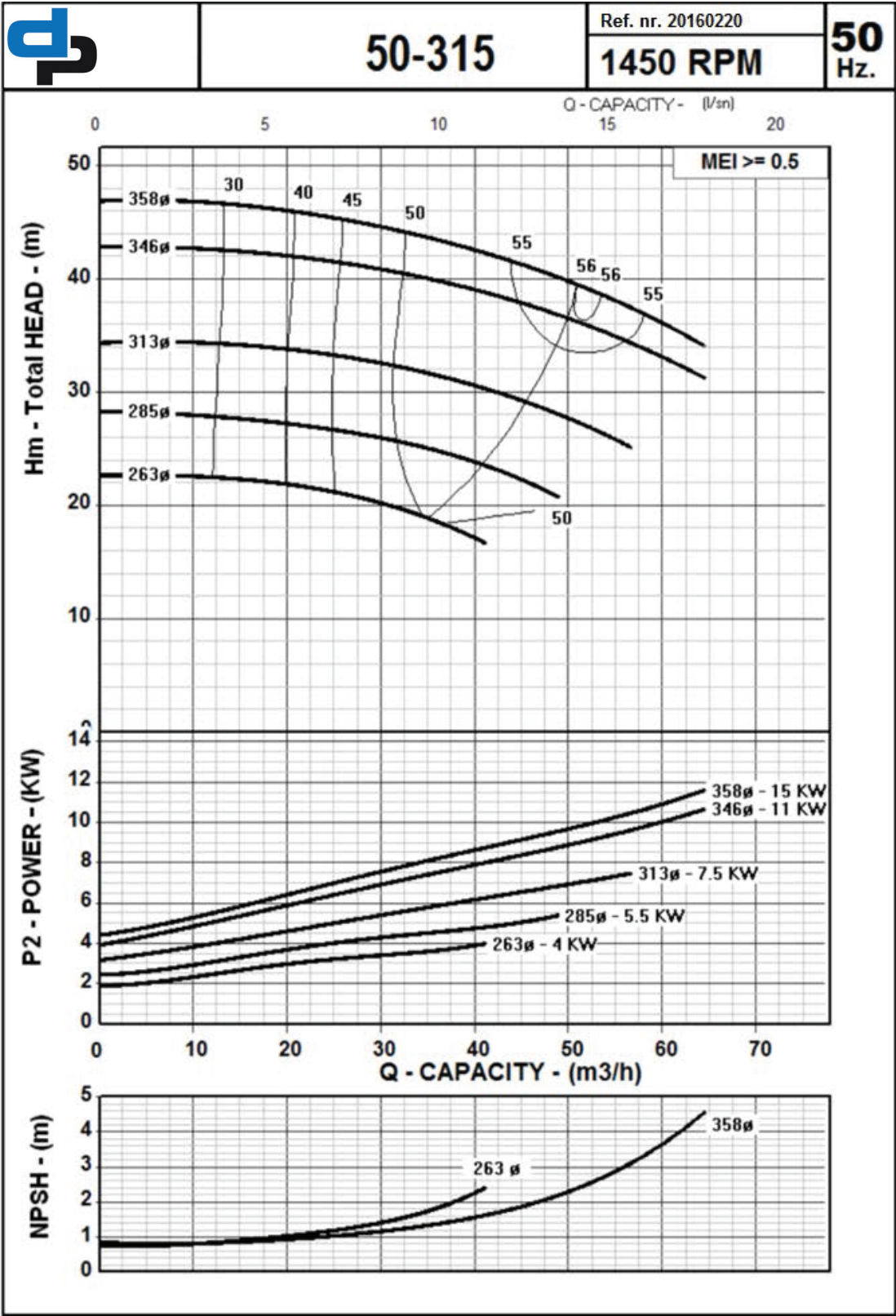
2.18 DPNT 50-250 4P



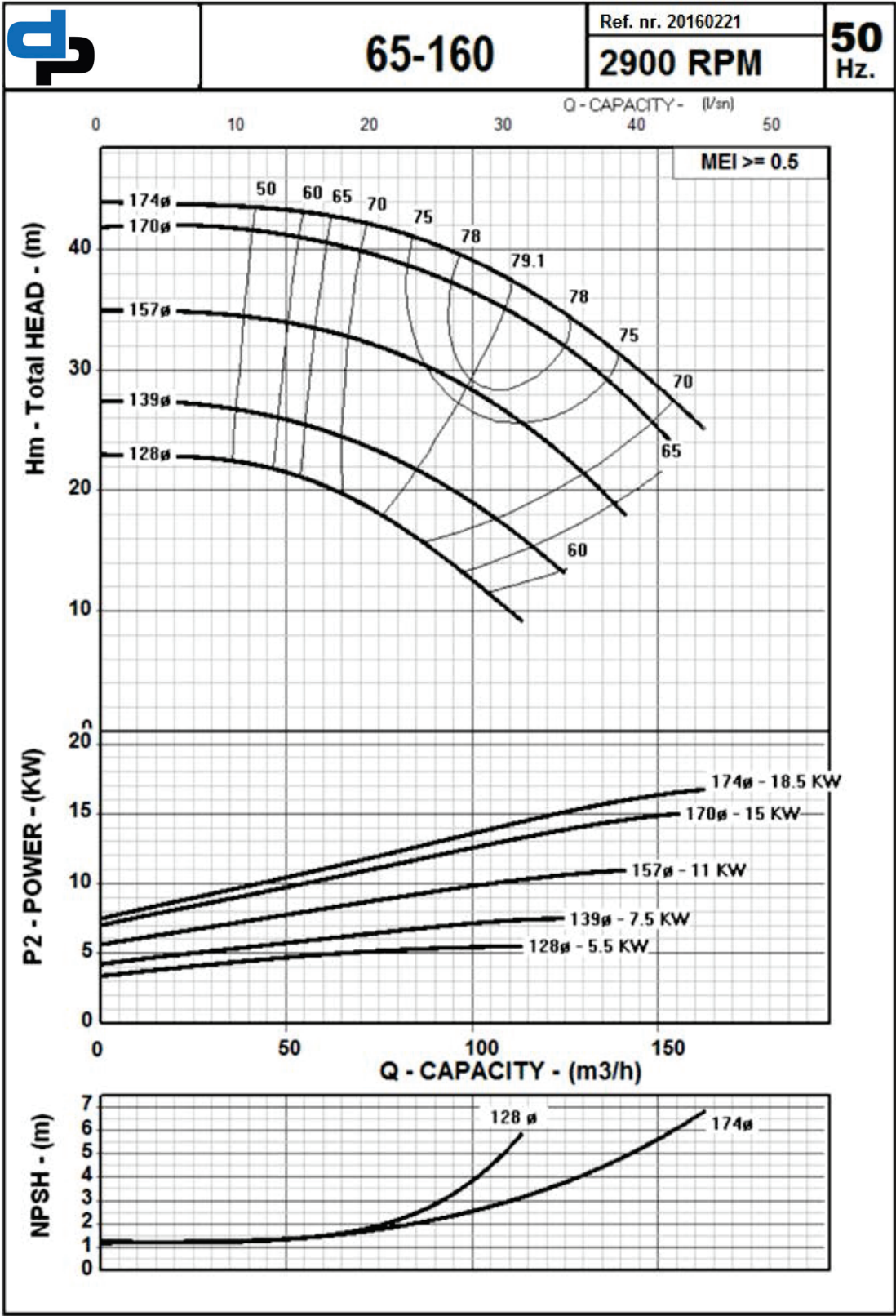
2.19 DPNT 50-315 2P



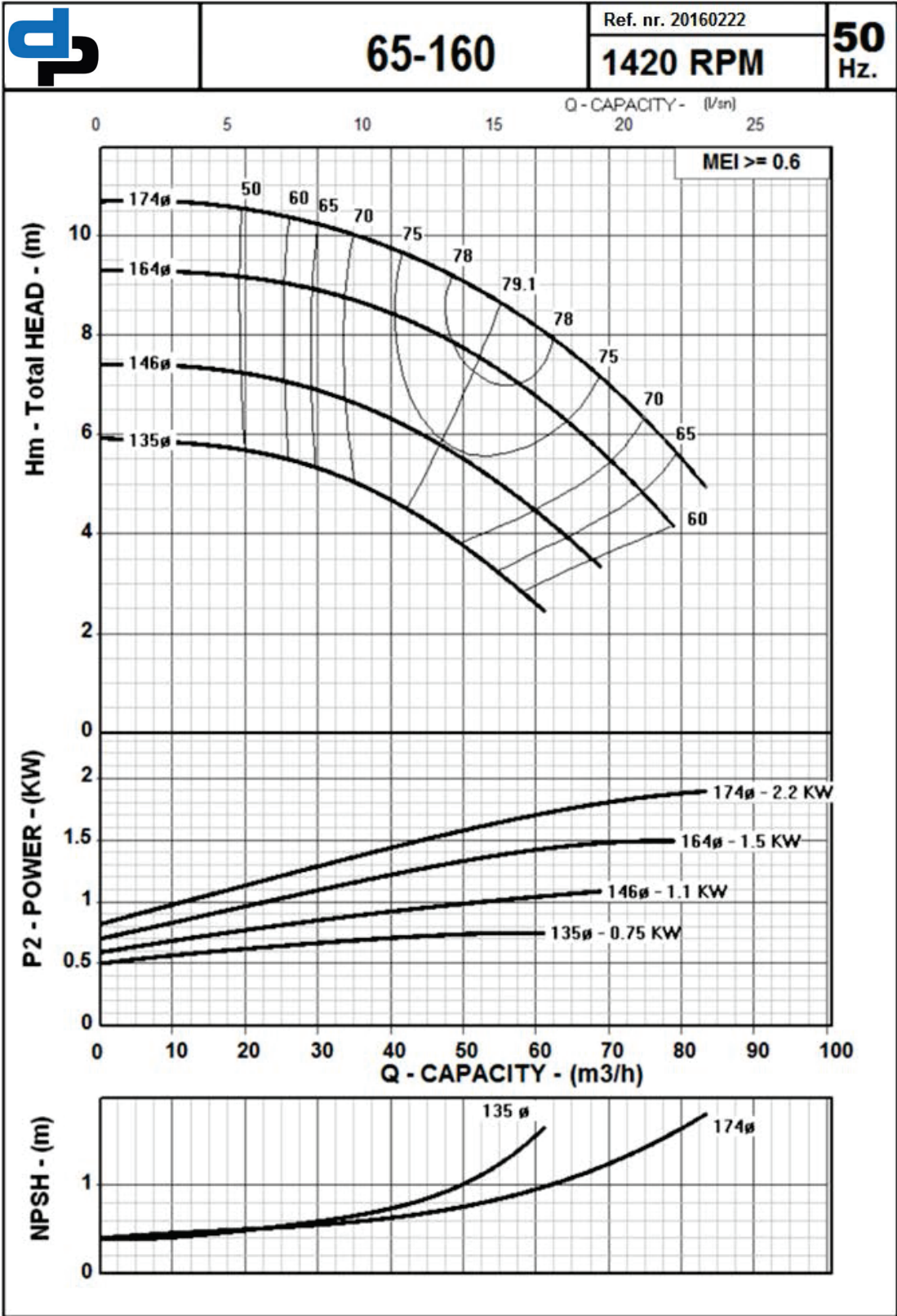
2.20 DPNT 50-315 4P



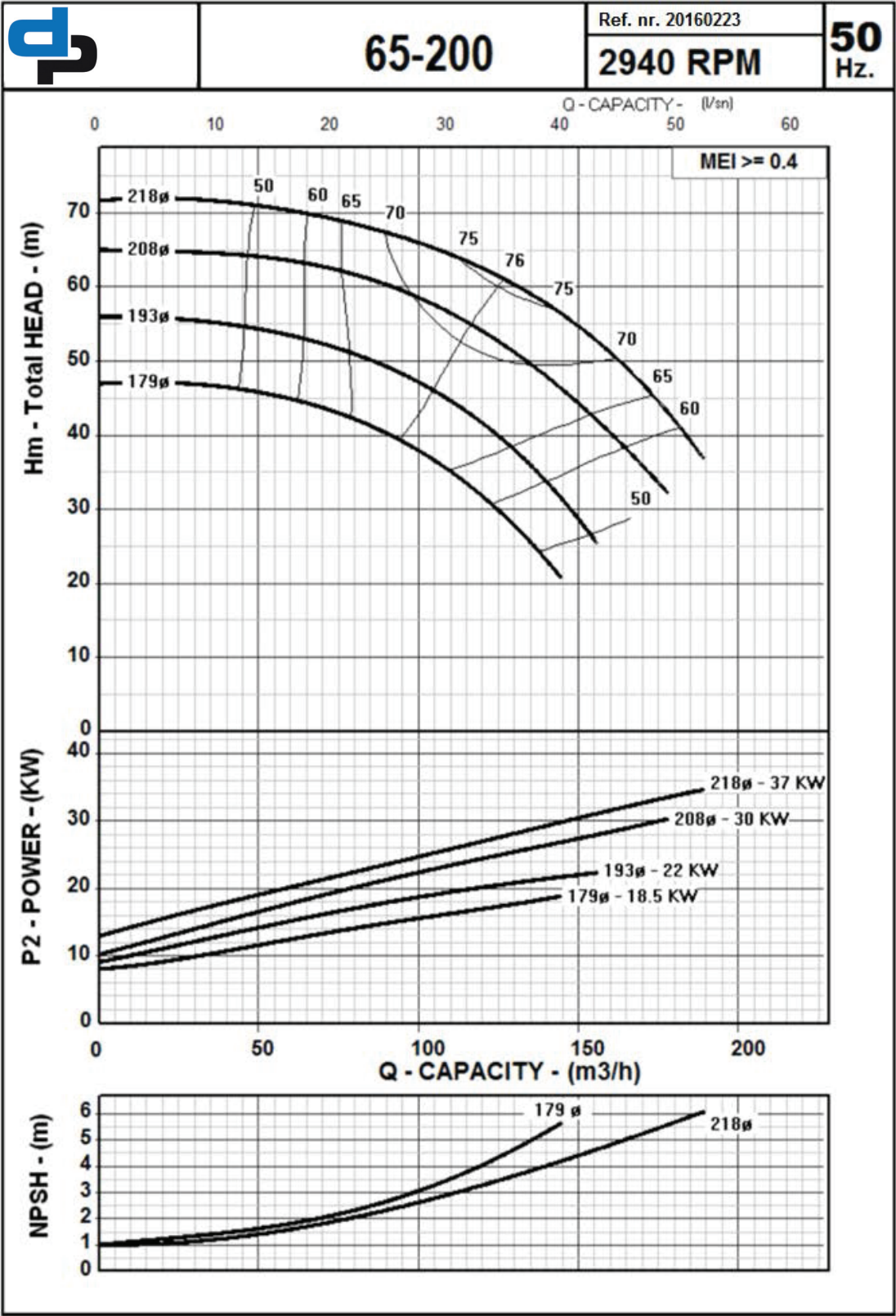
2.21 DPNT 65-160 2P



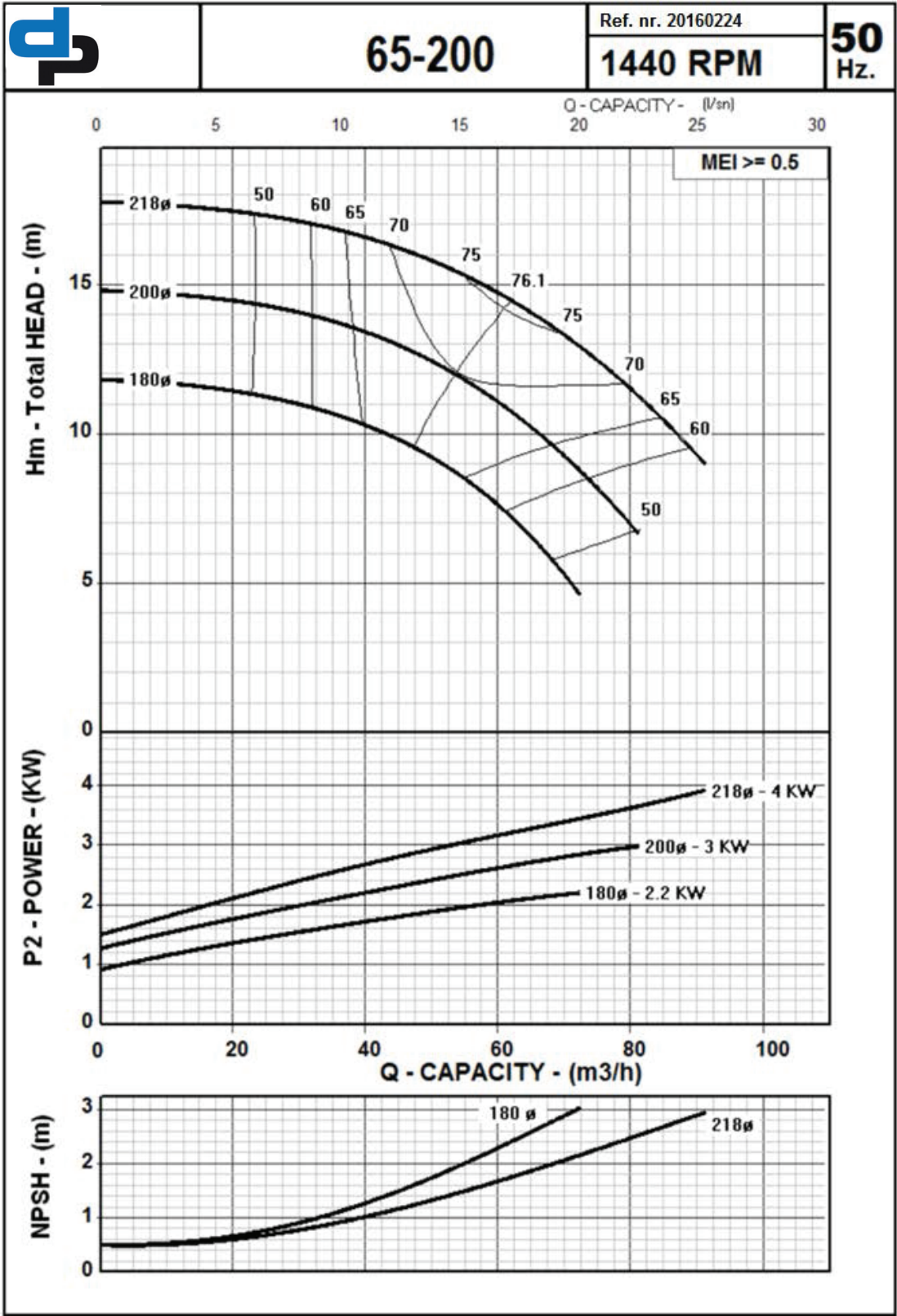
2.22 DPNT 65-160 4P



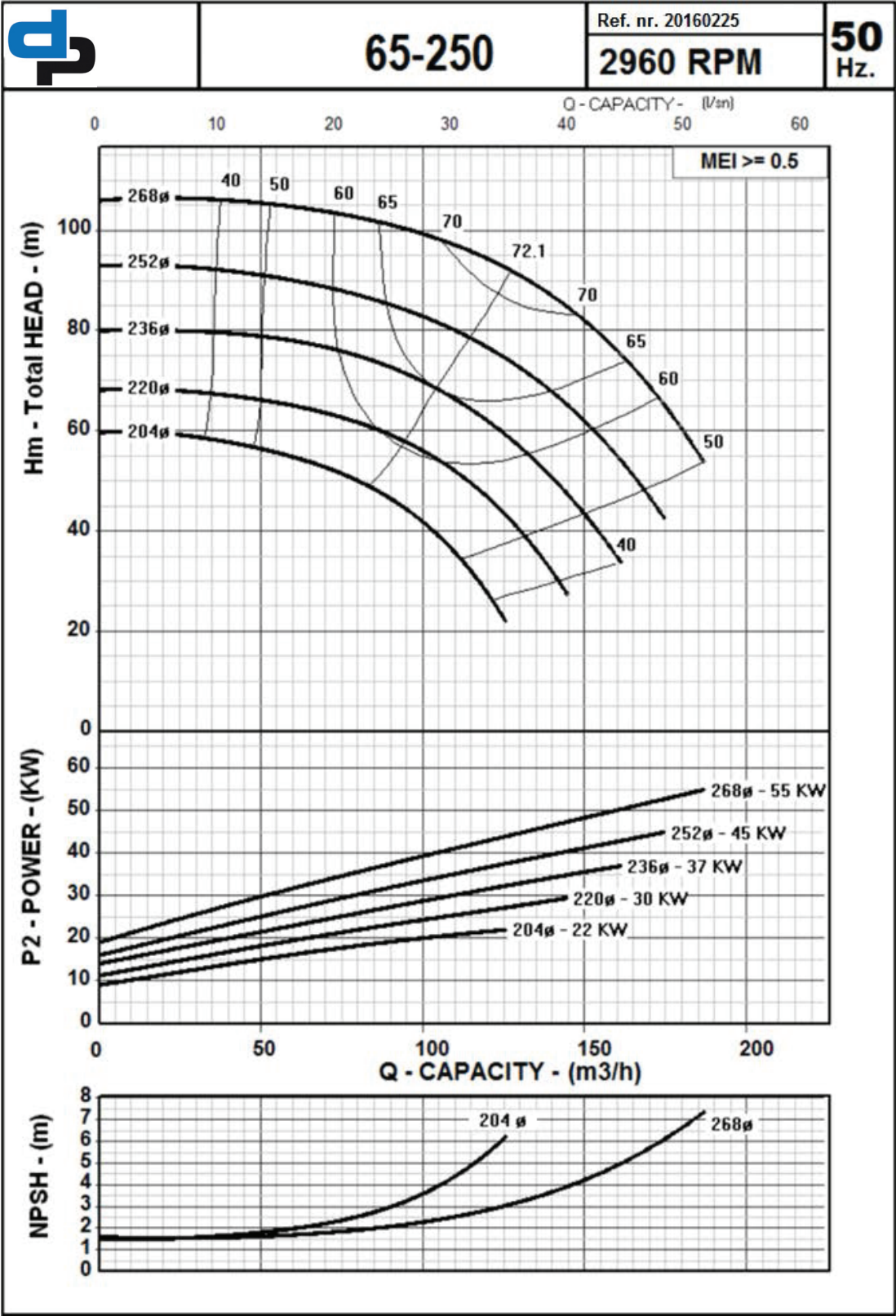
2.23 DPNT 65-200 2P



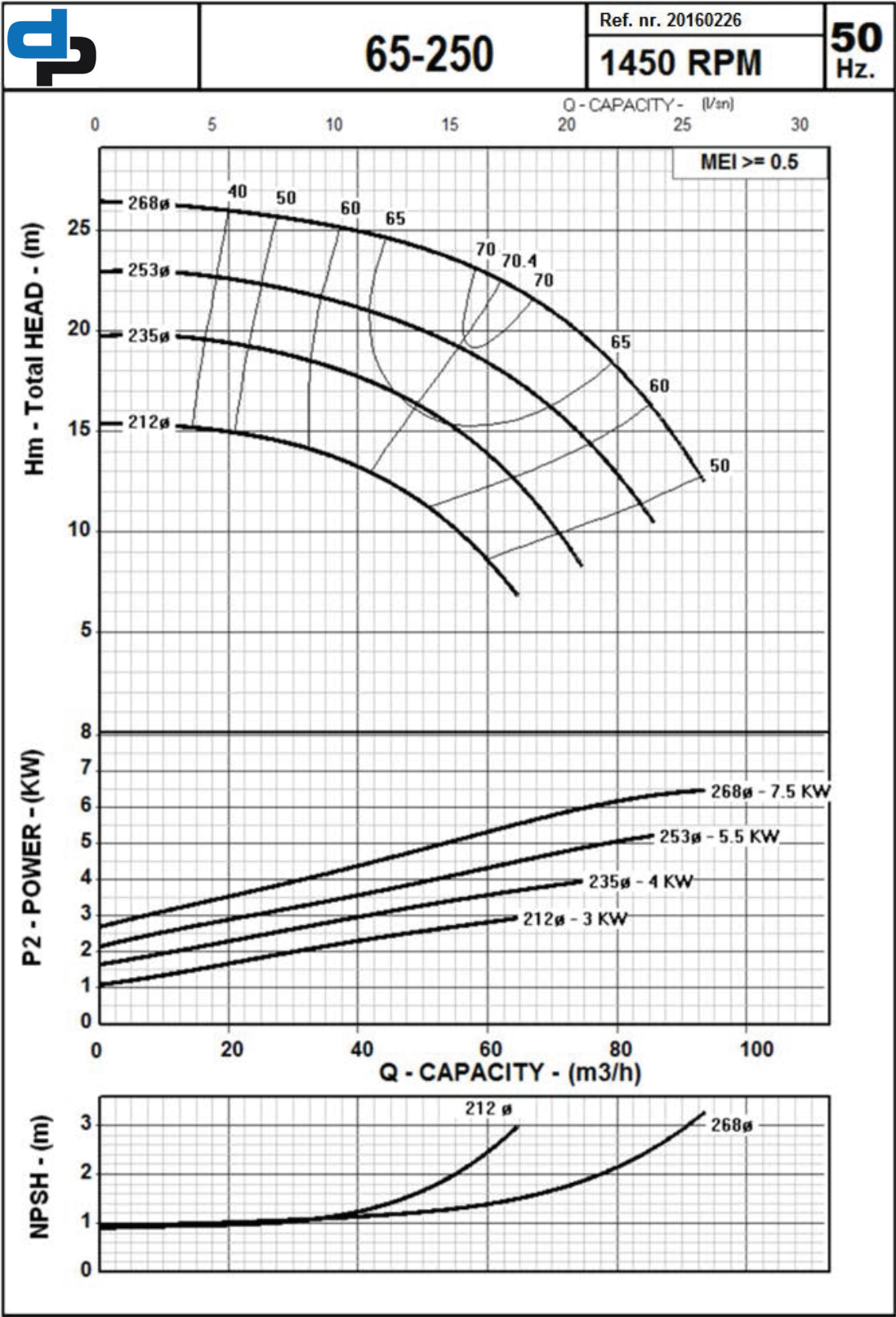
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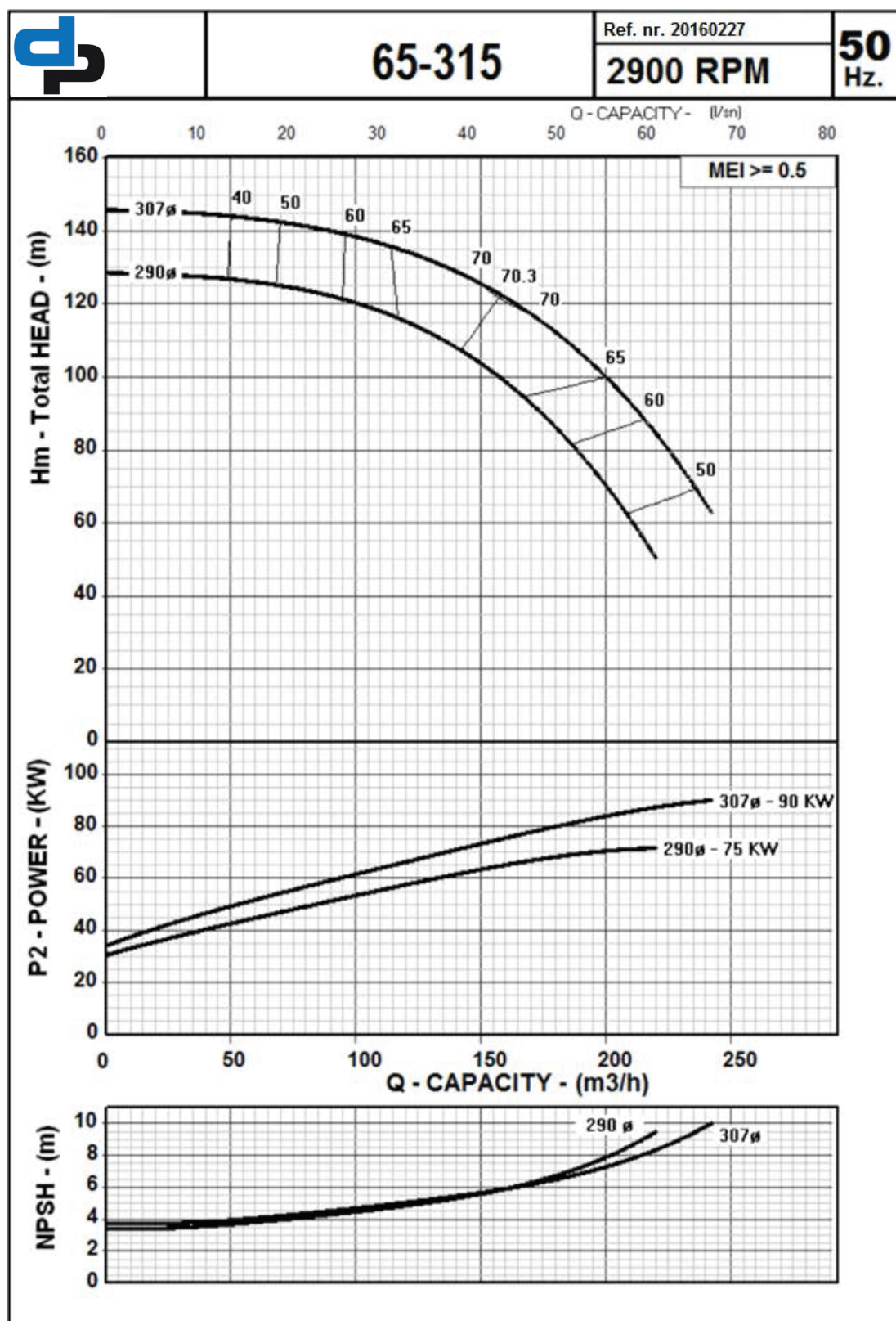
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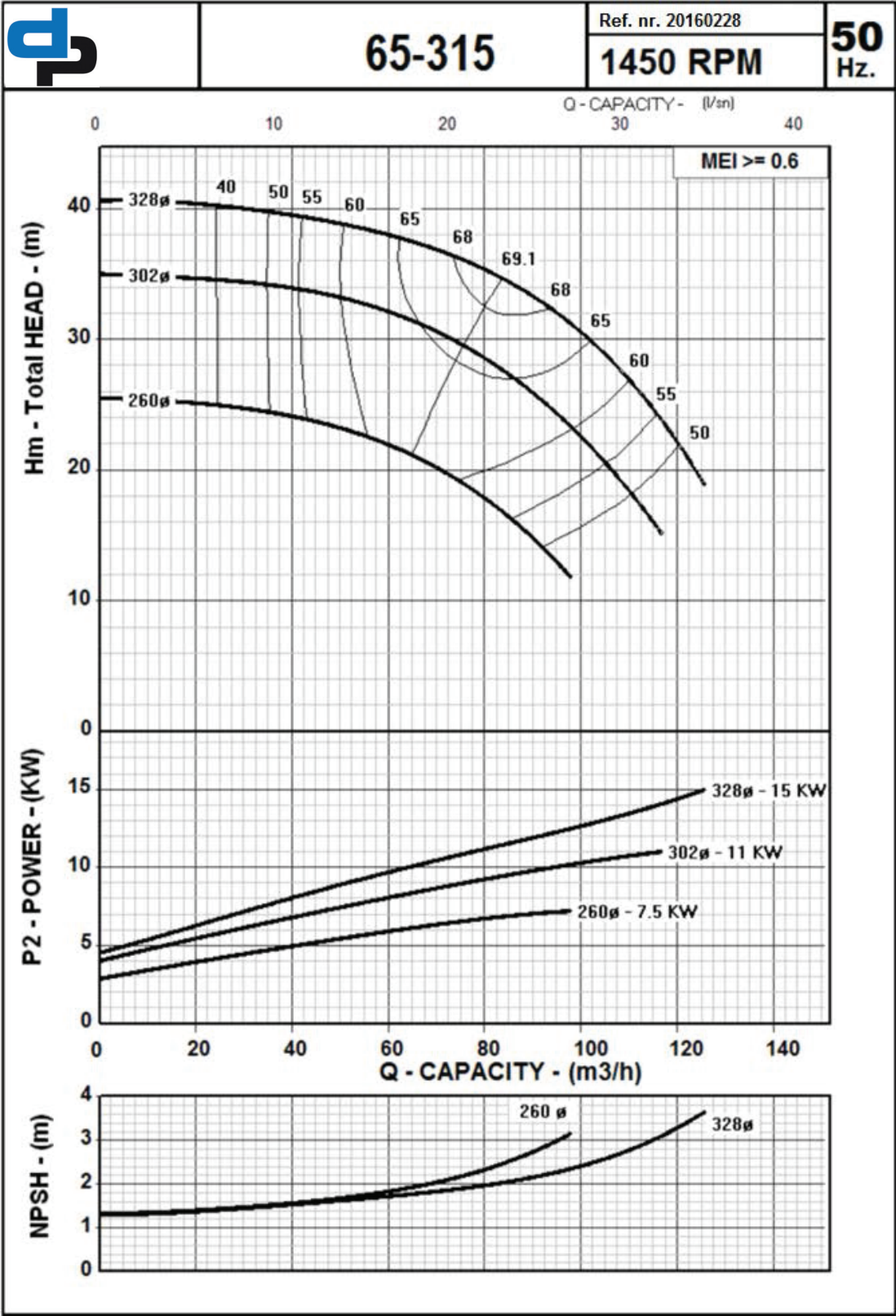
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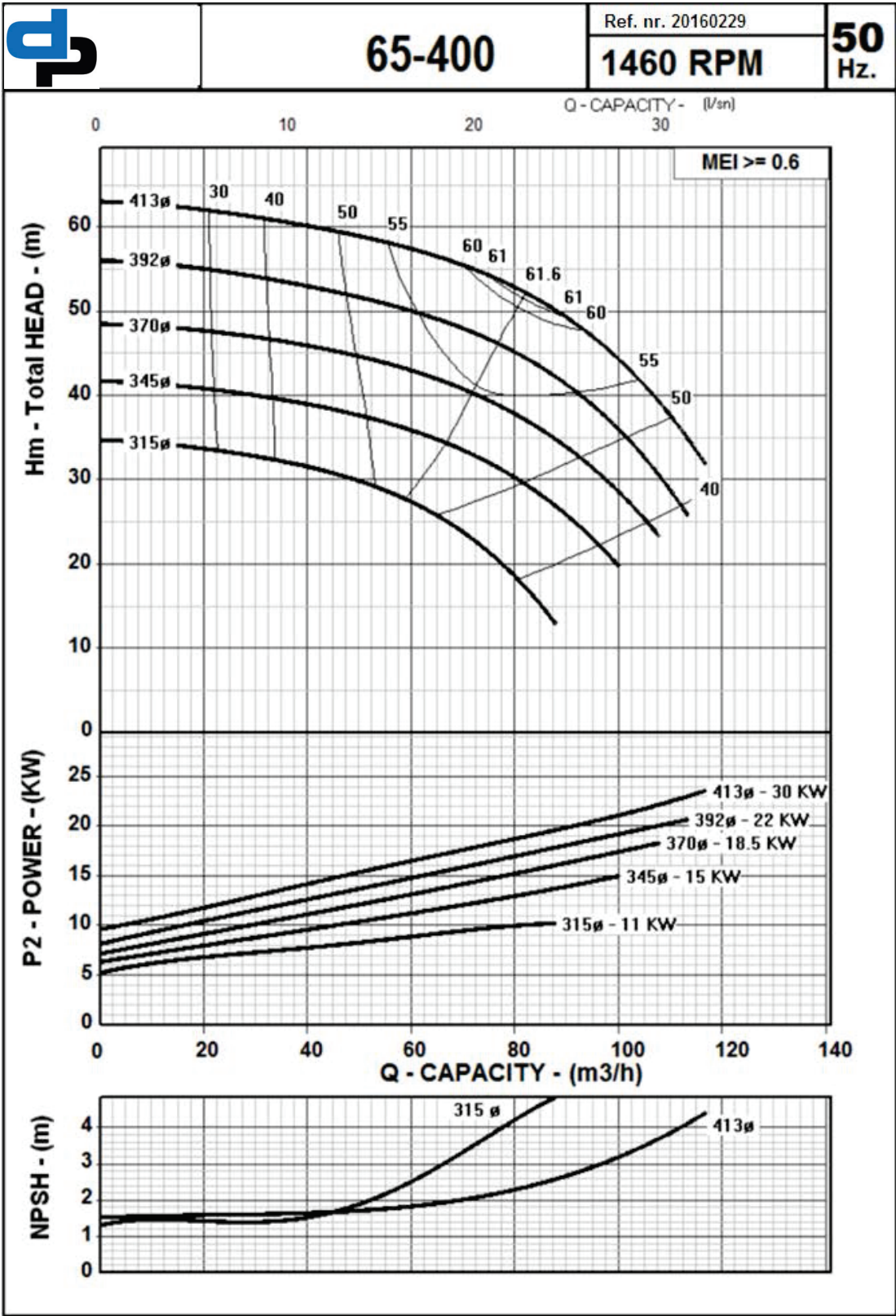
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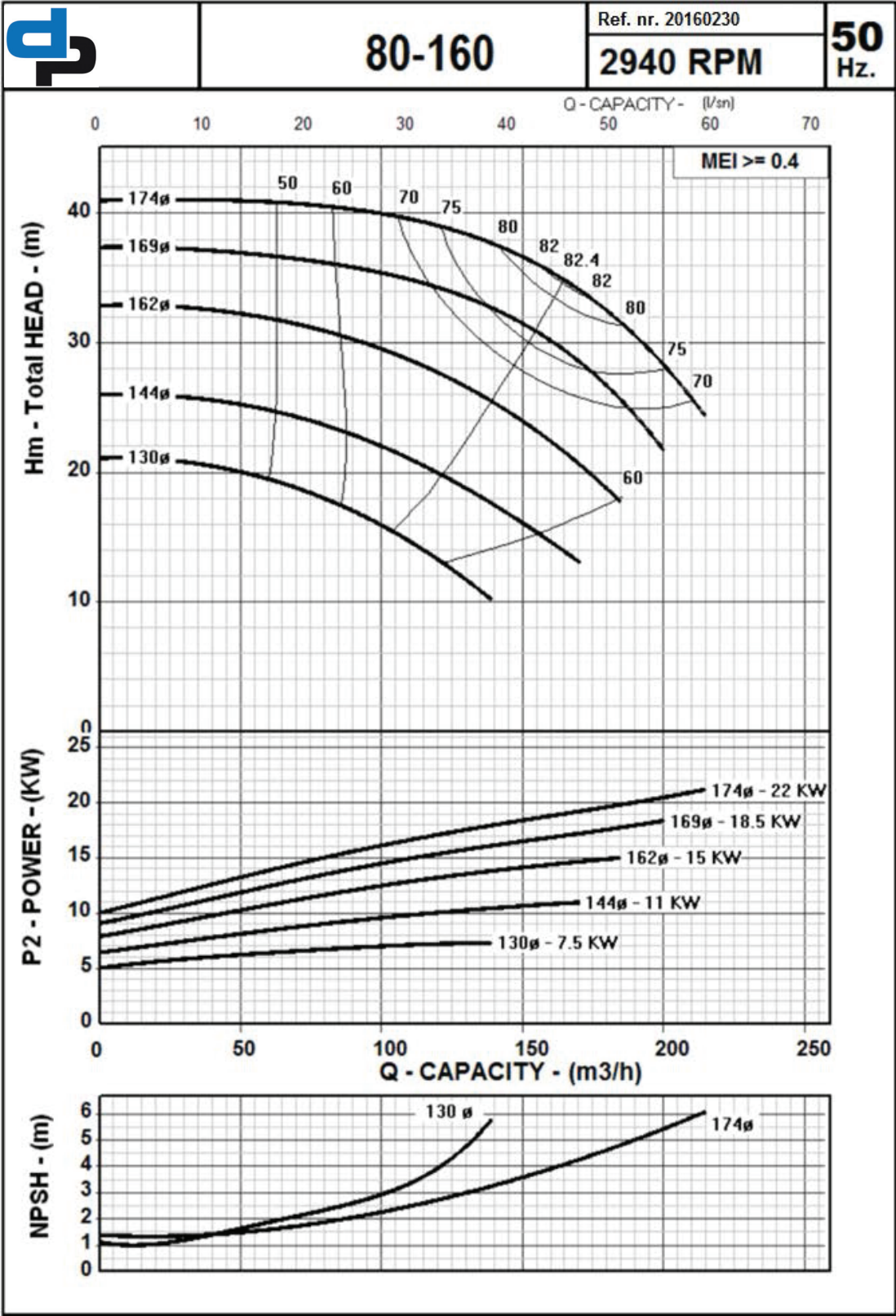
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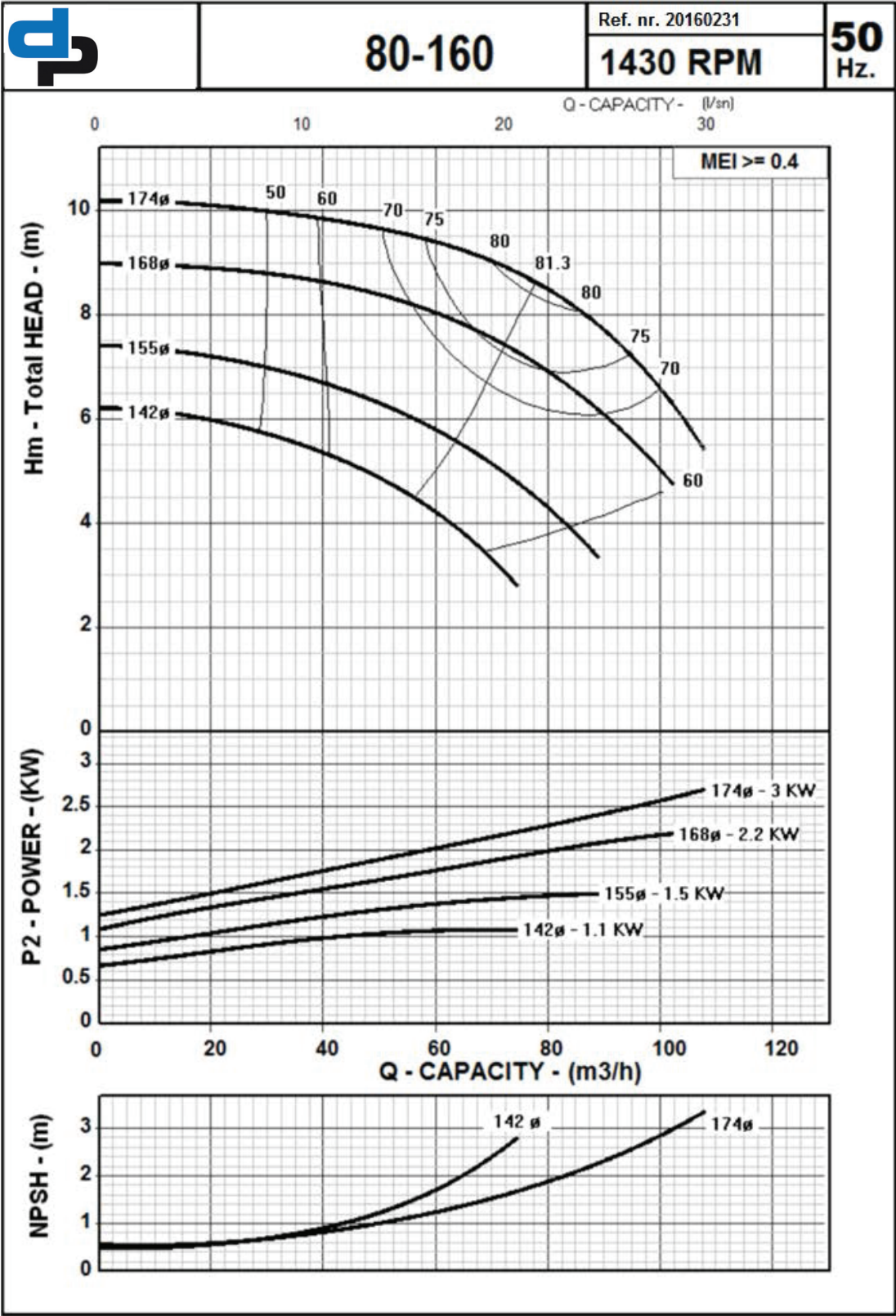
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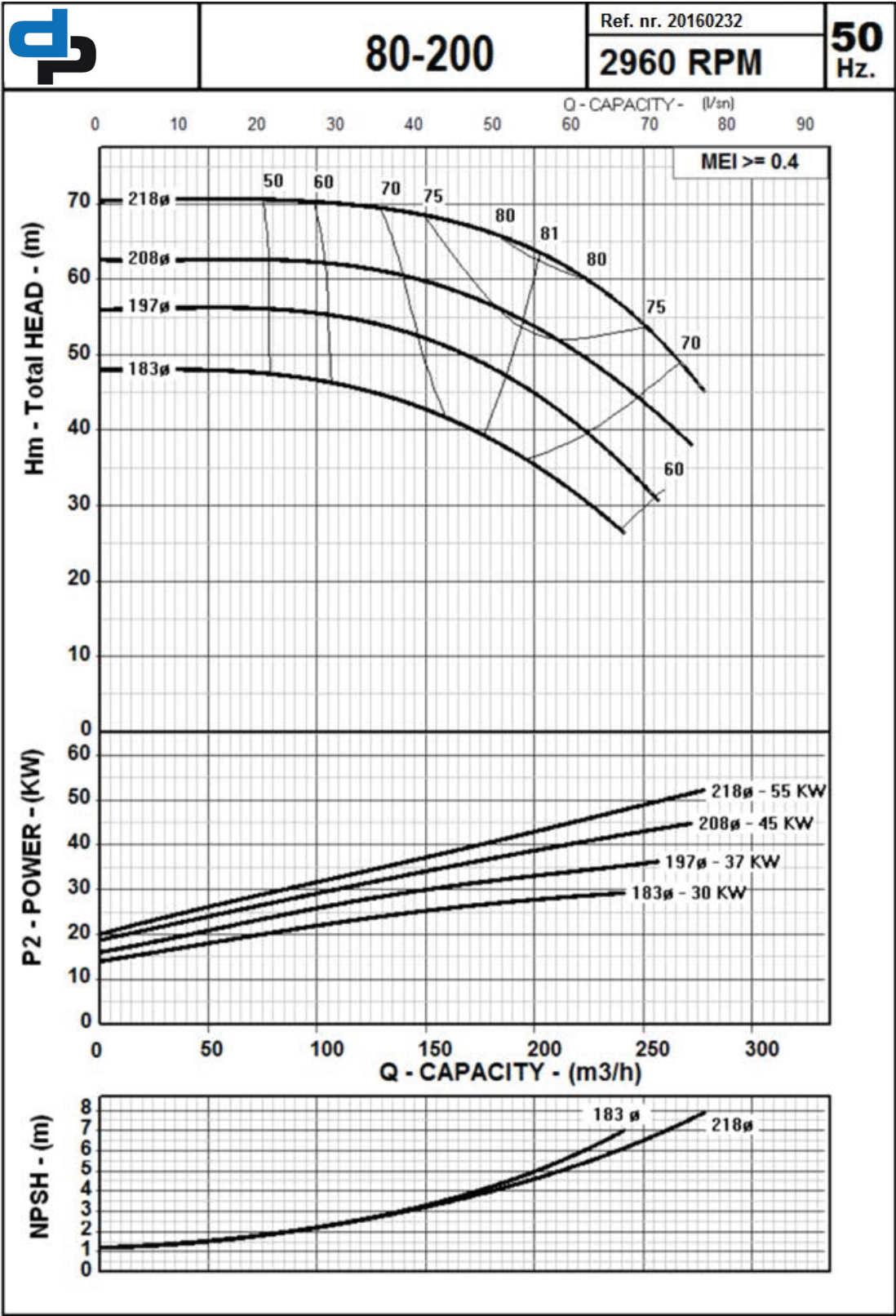
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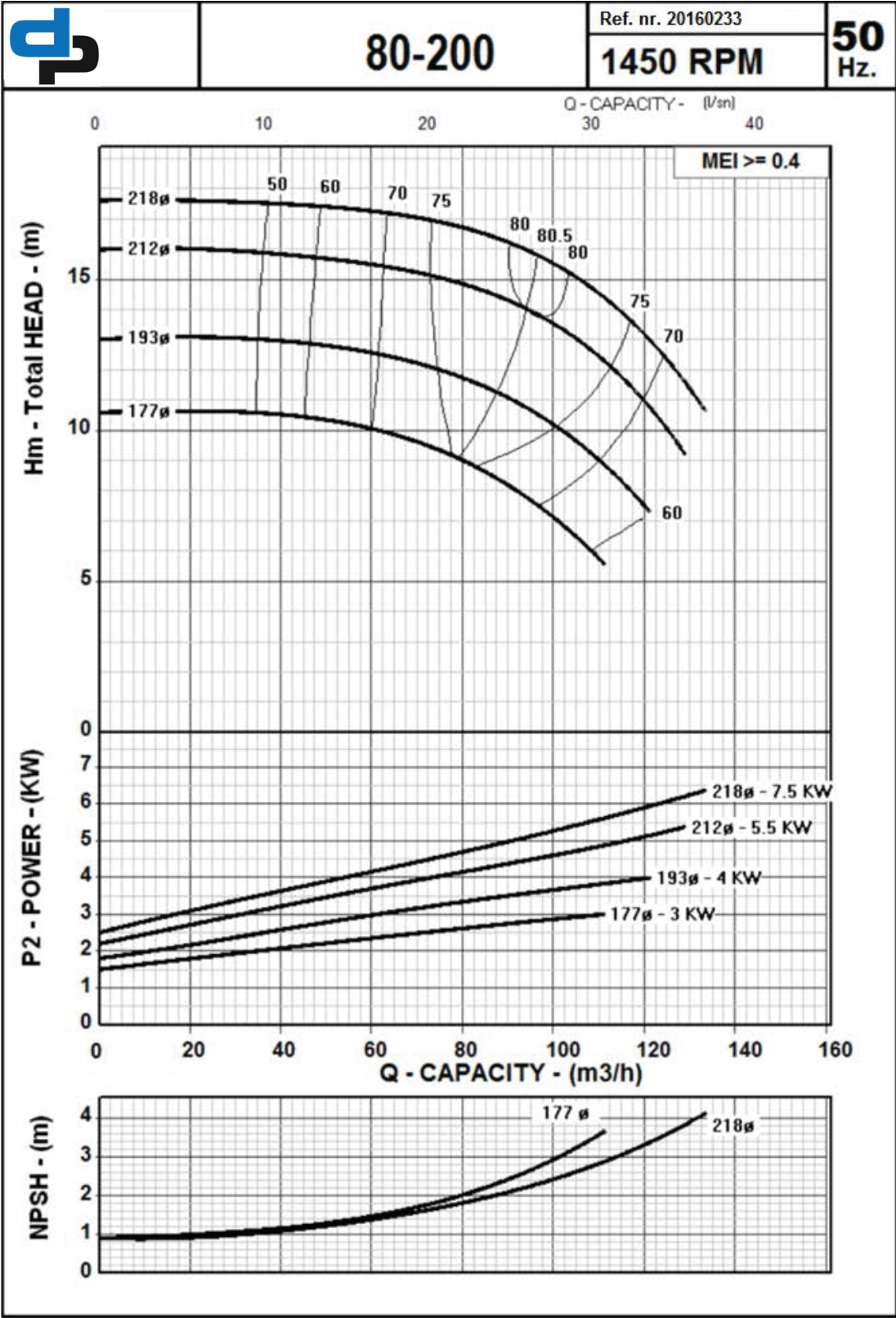
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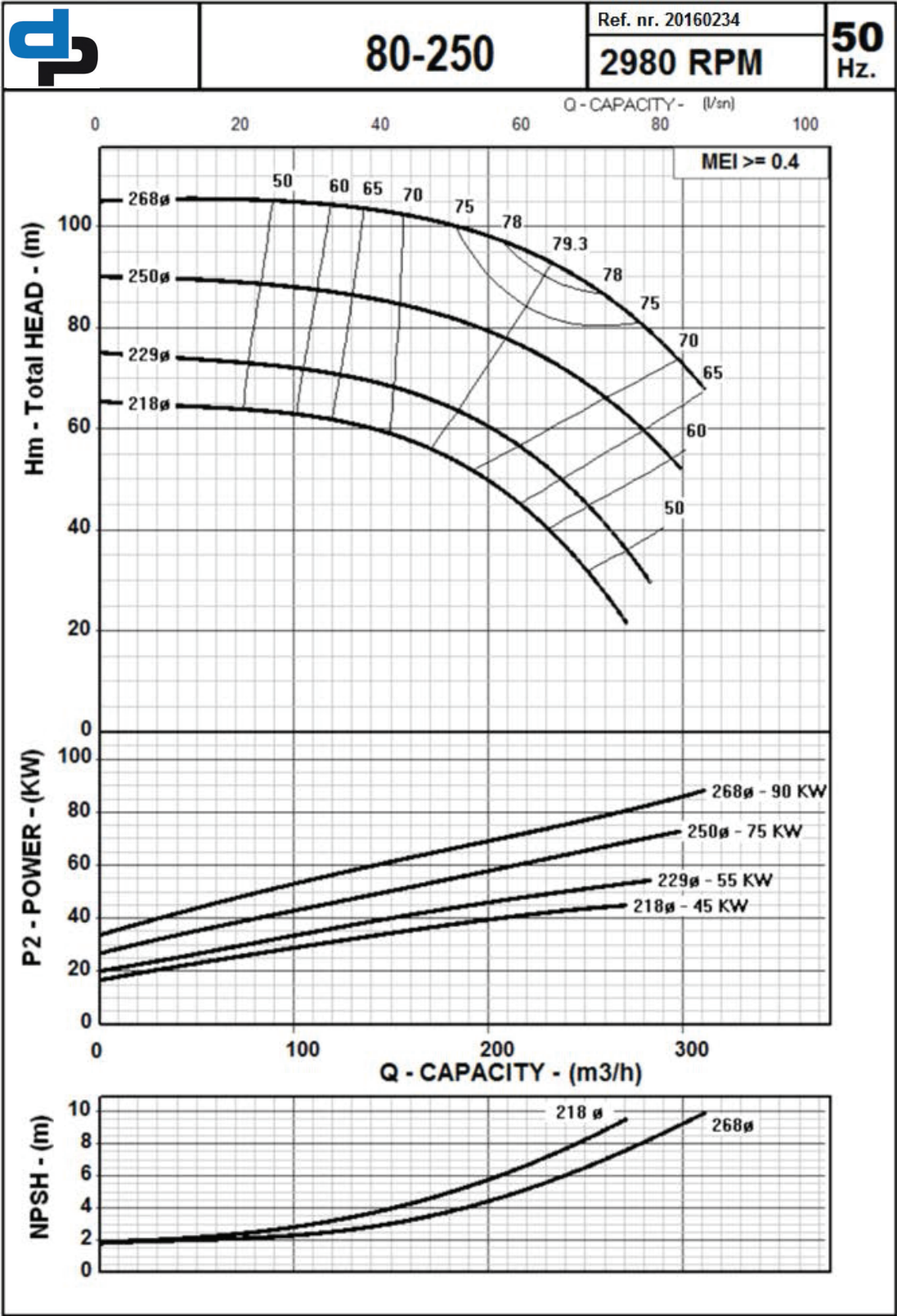
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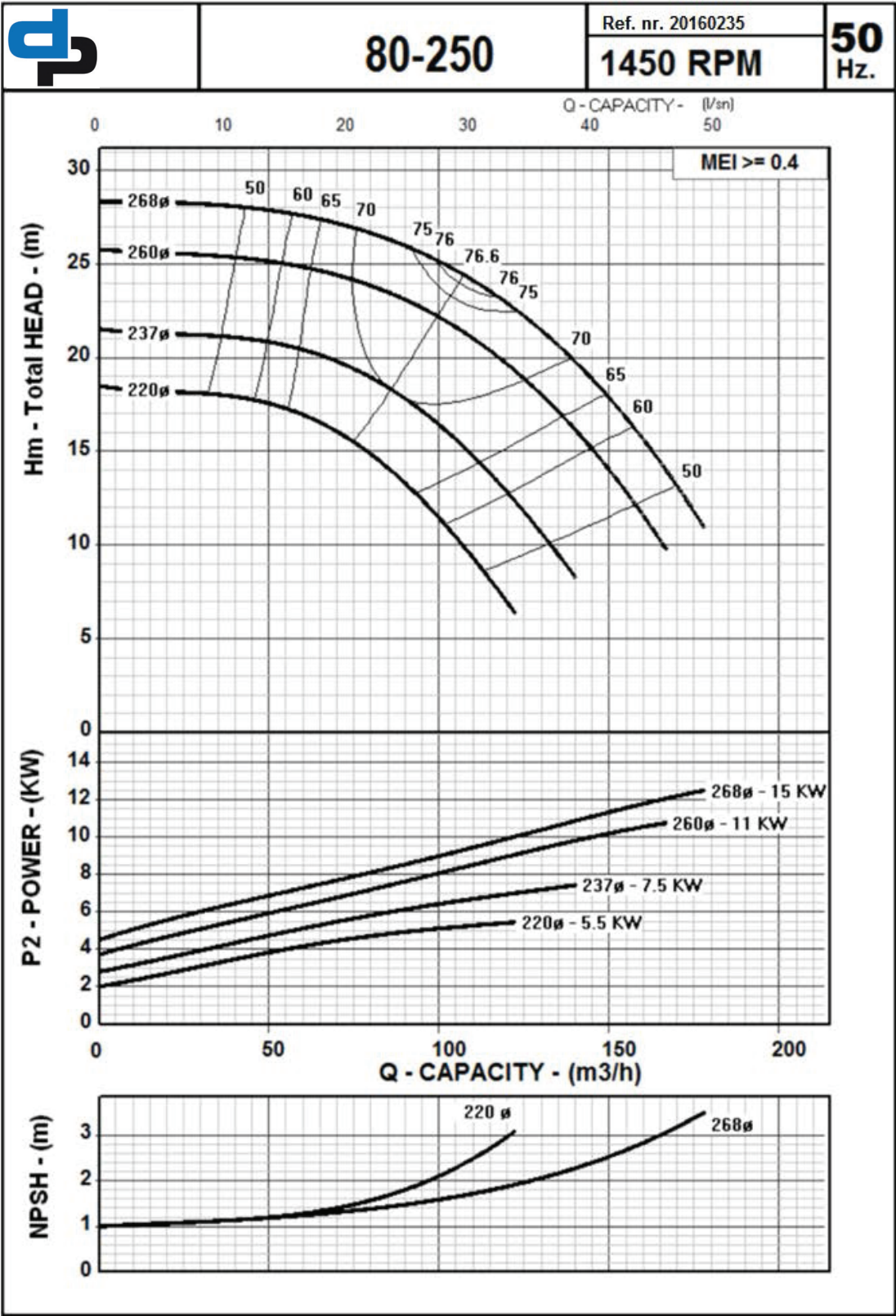
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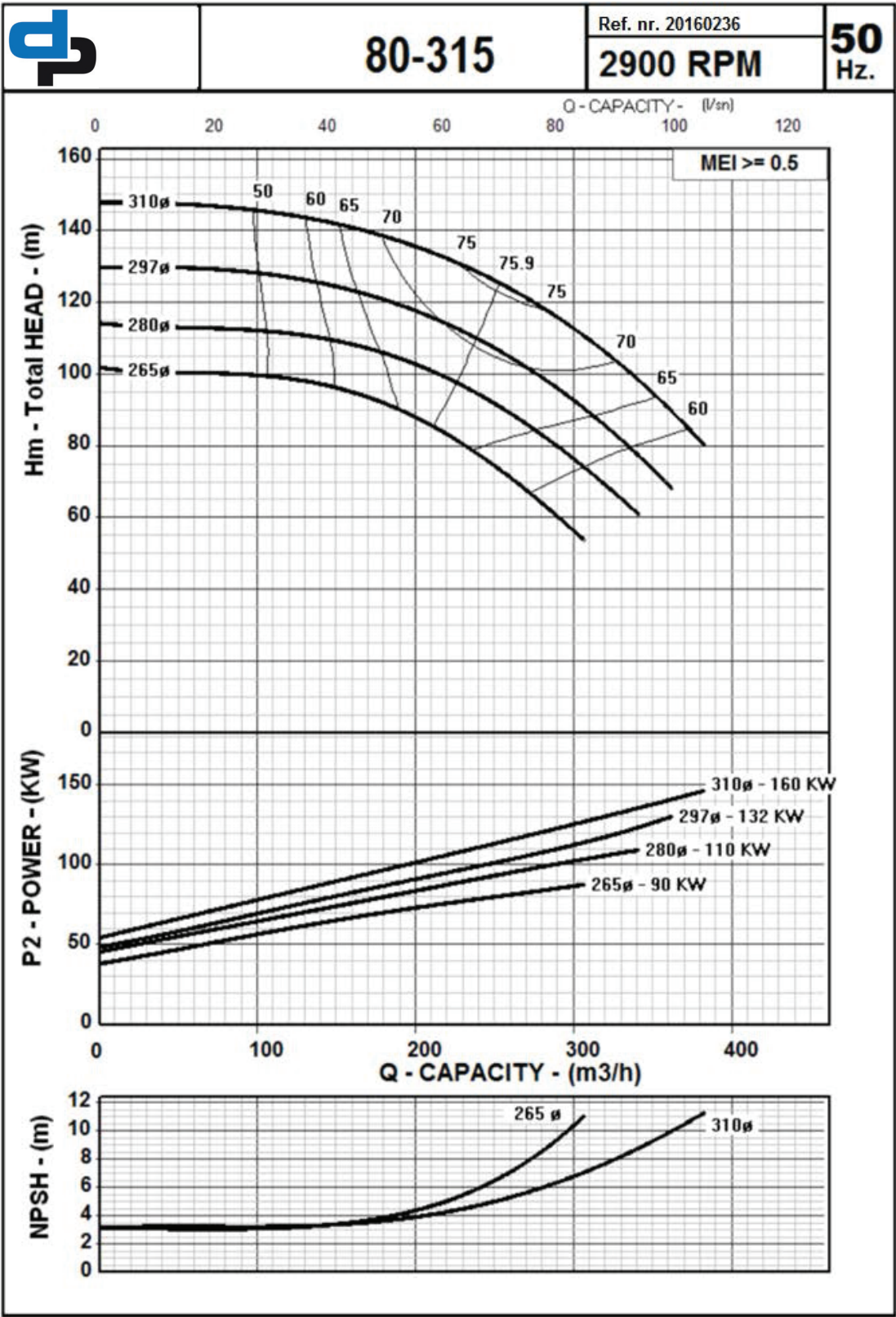
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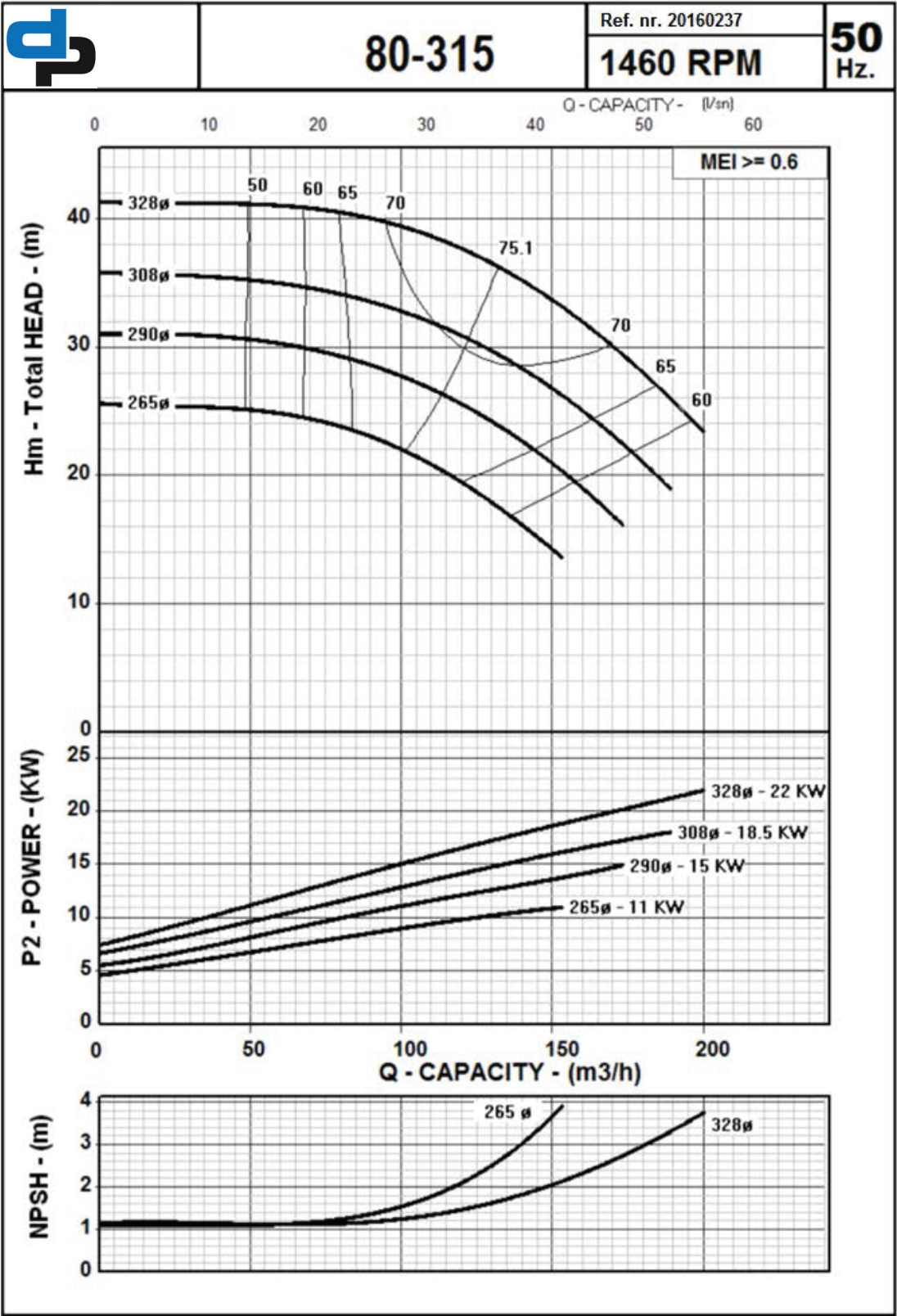
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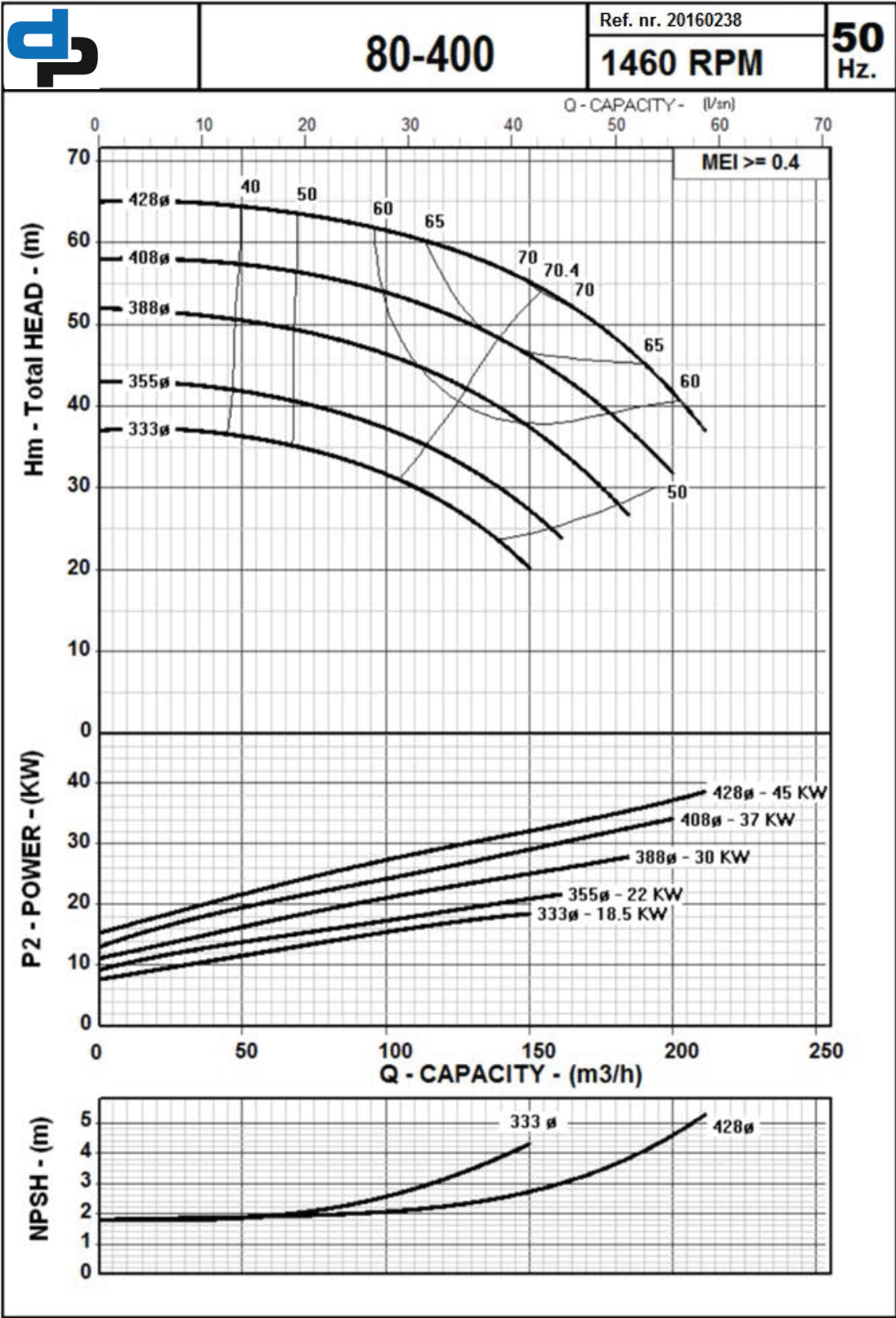
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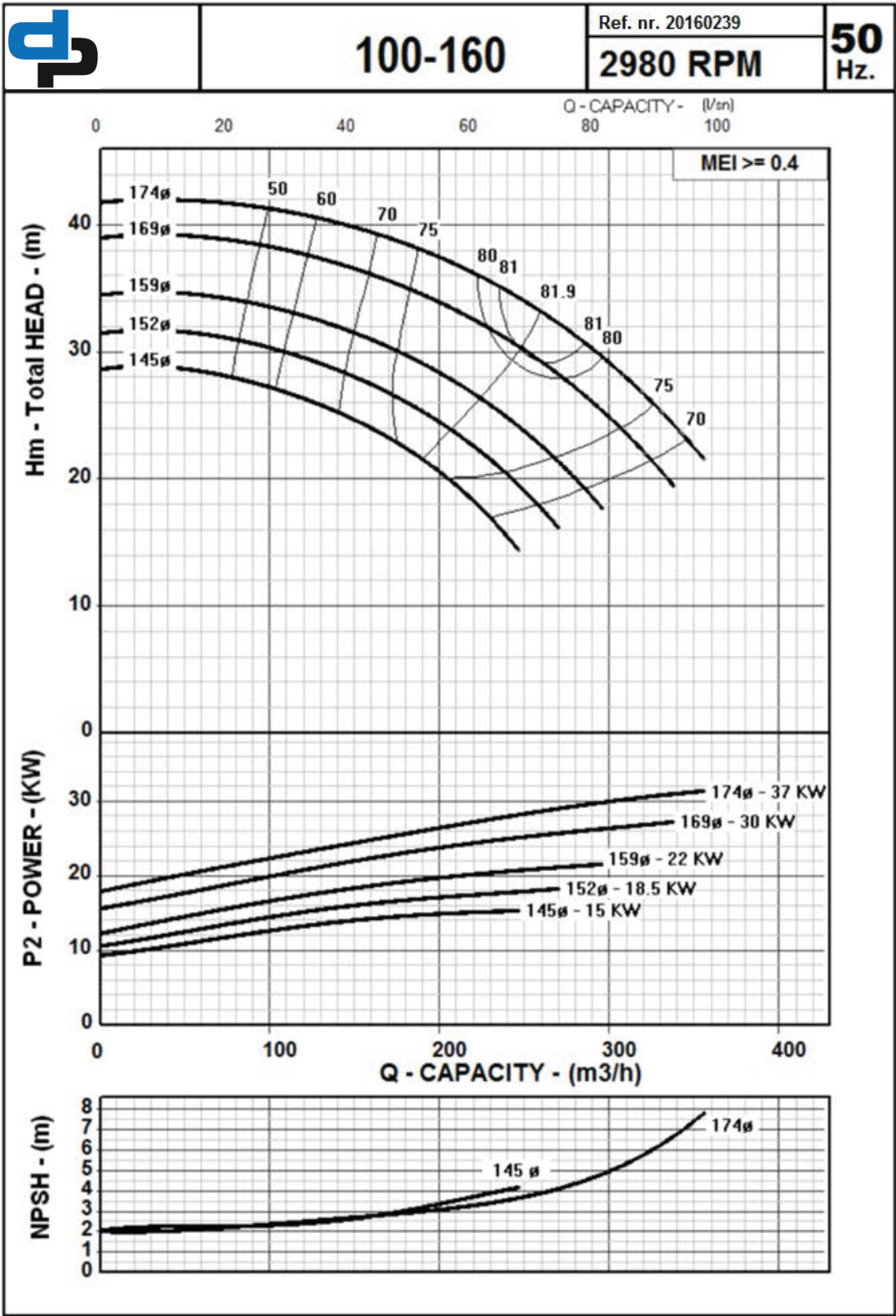
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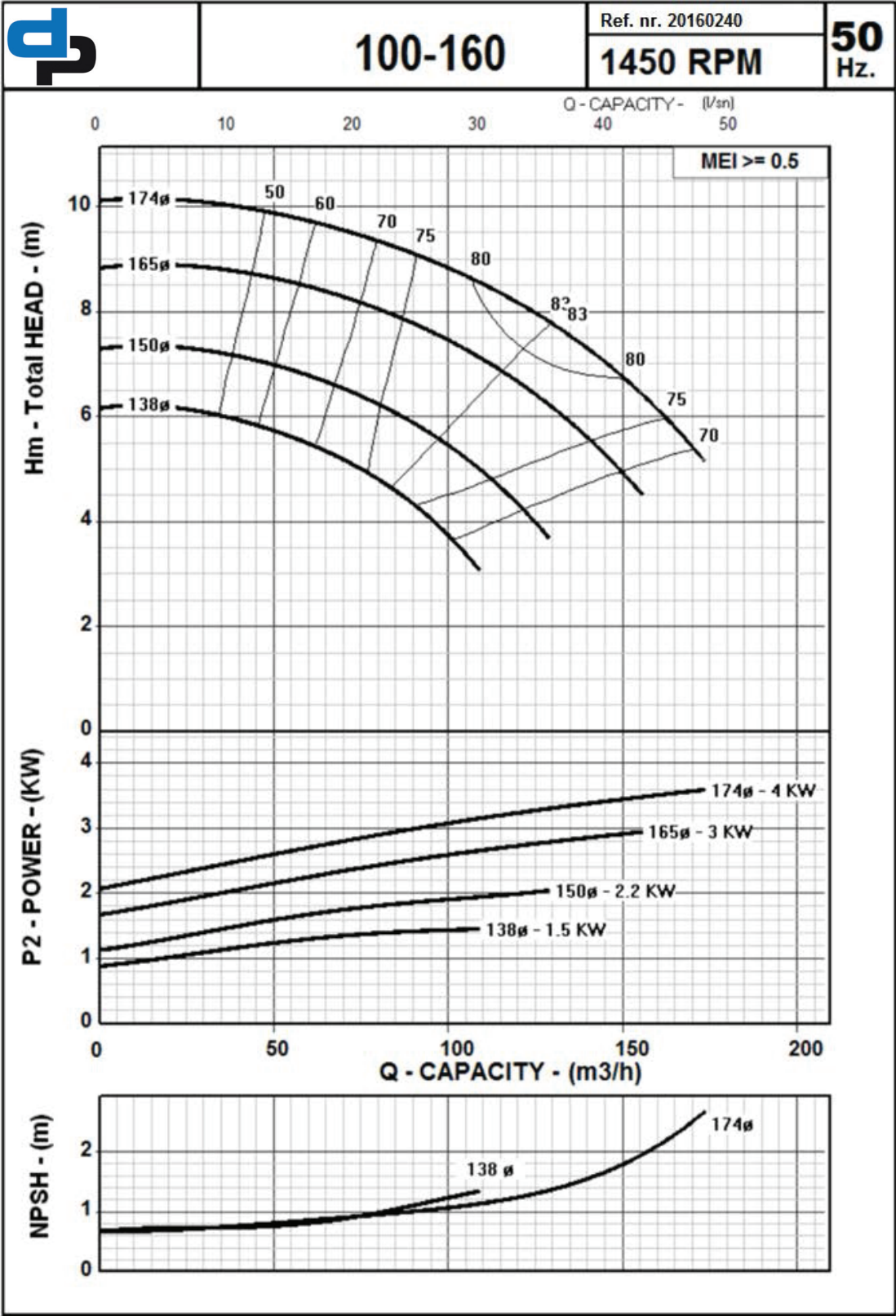
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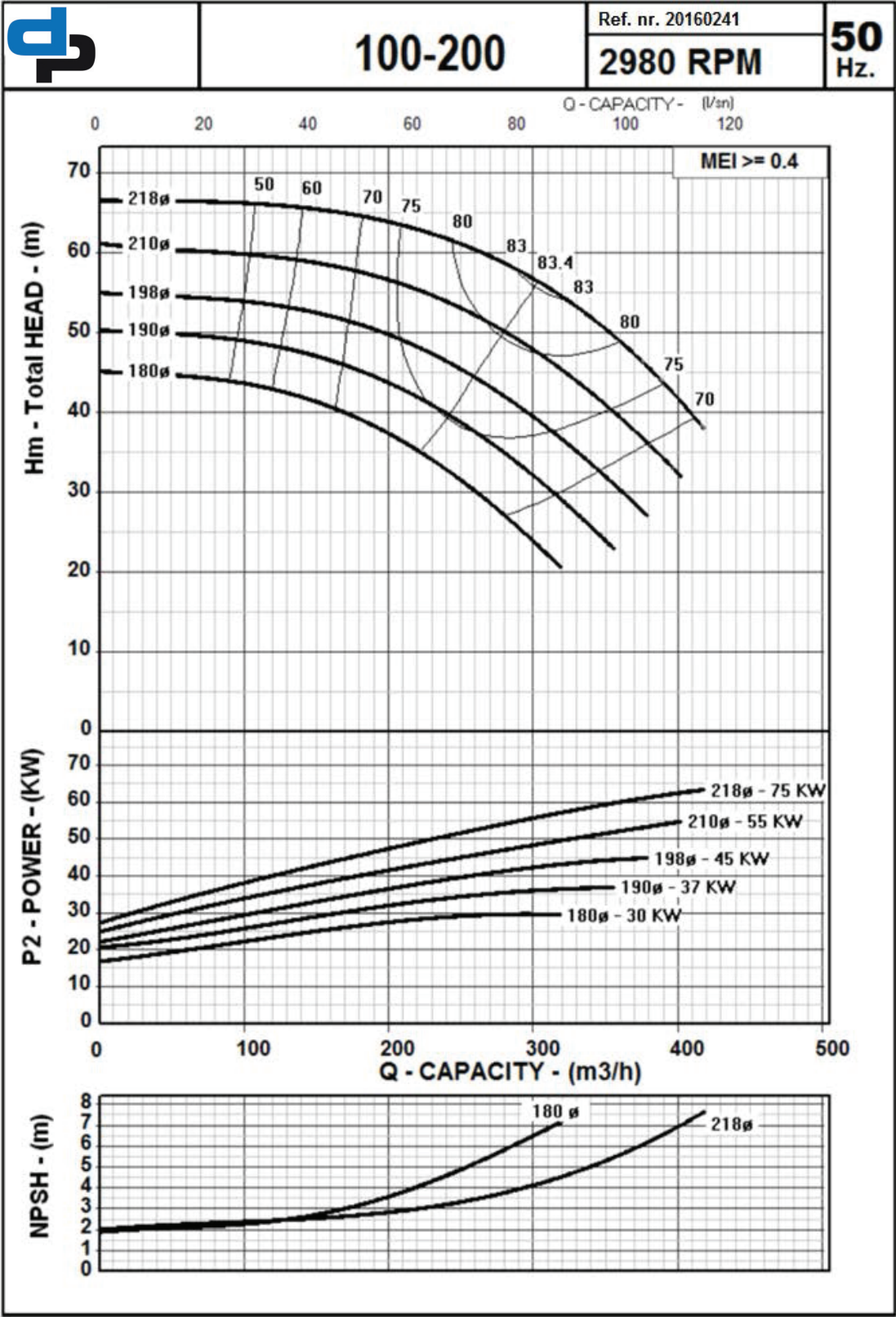
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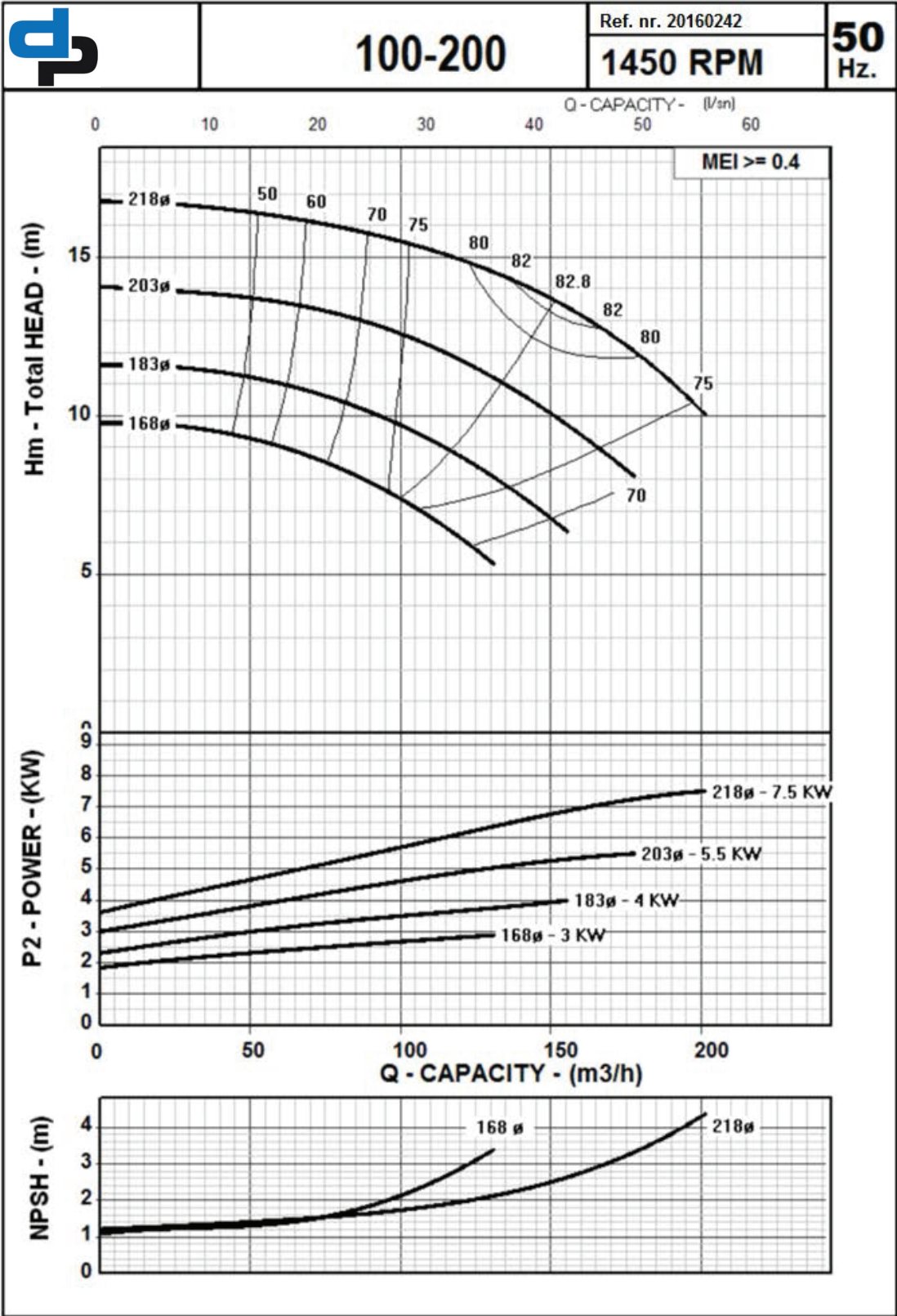
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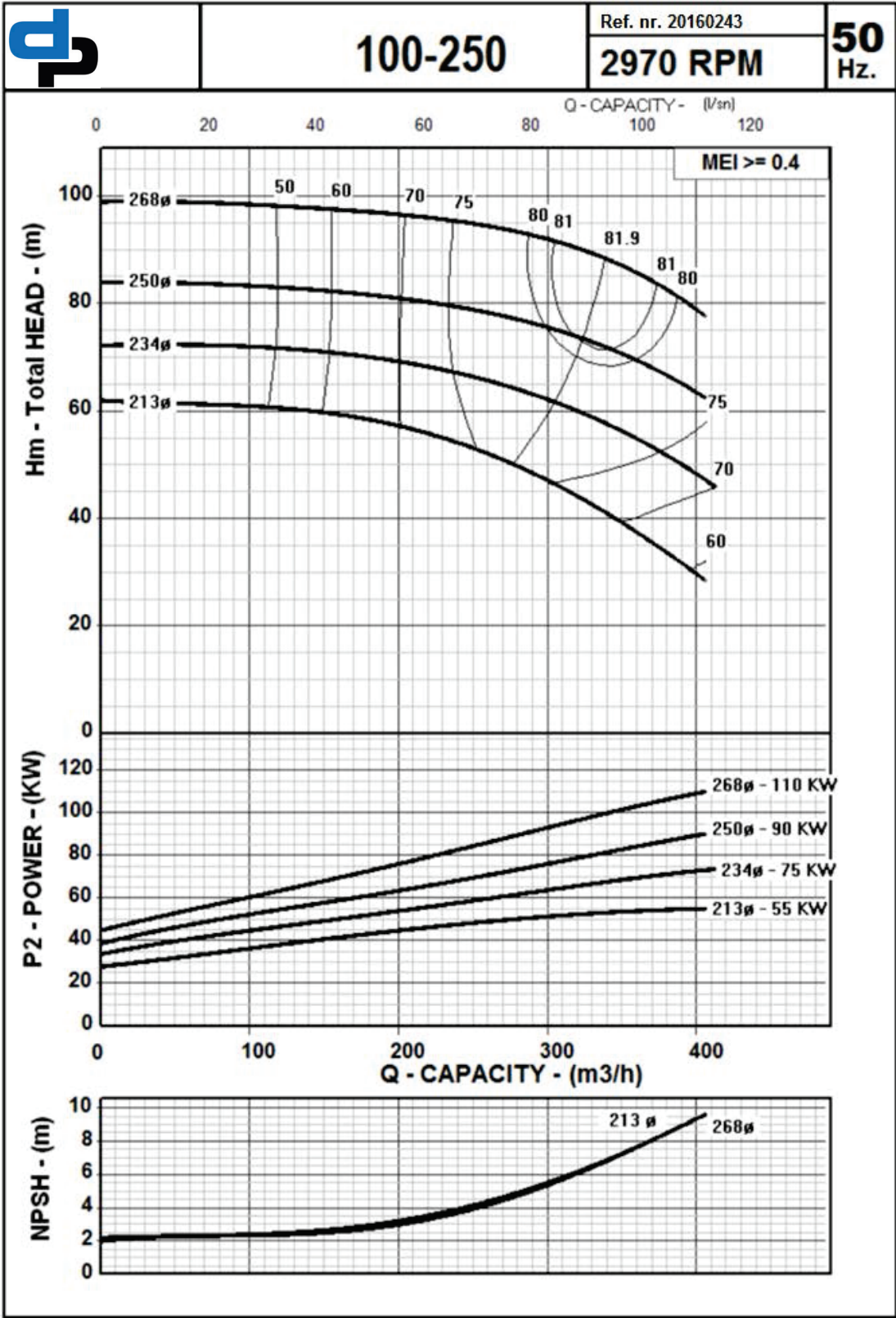
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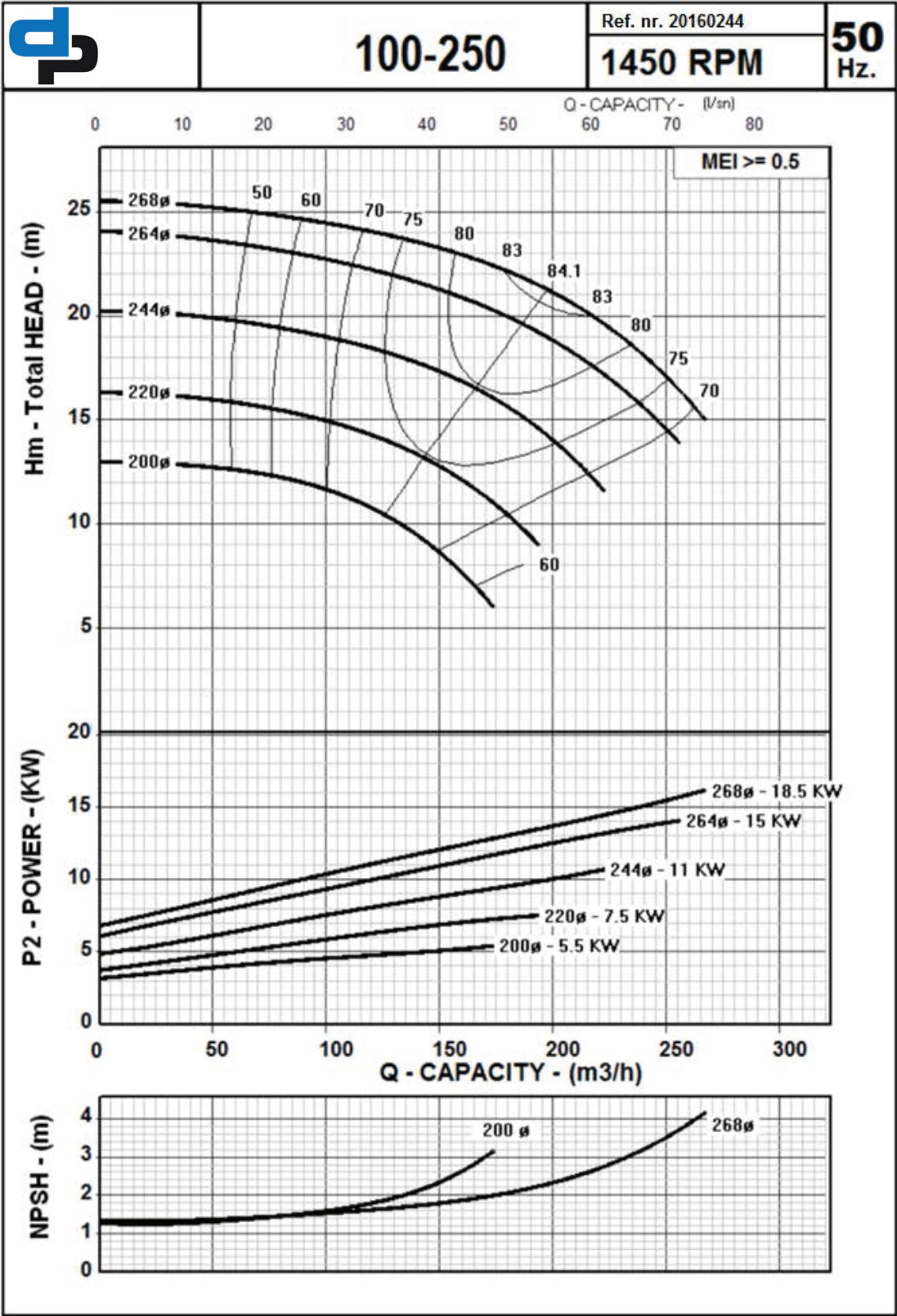
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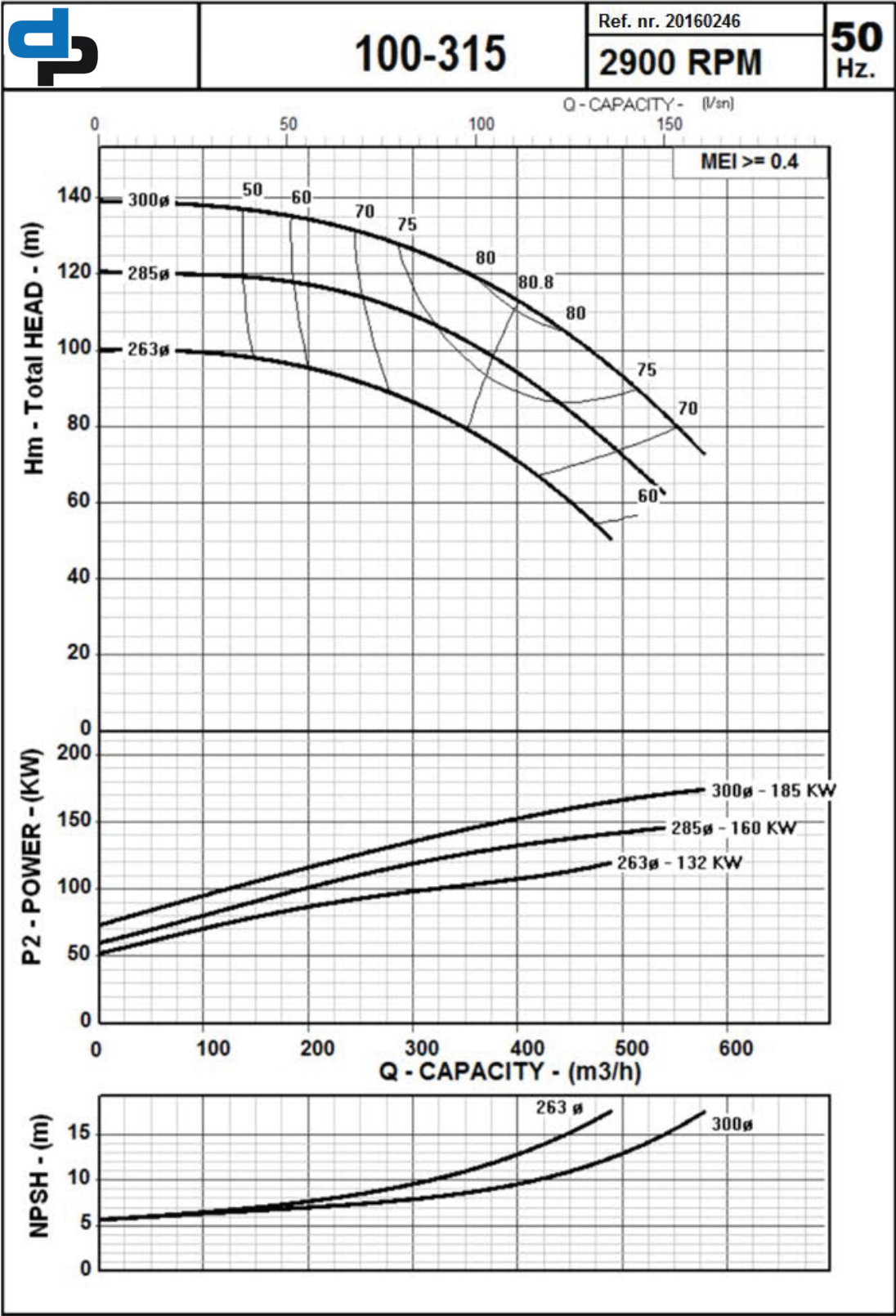
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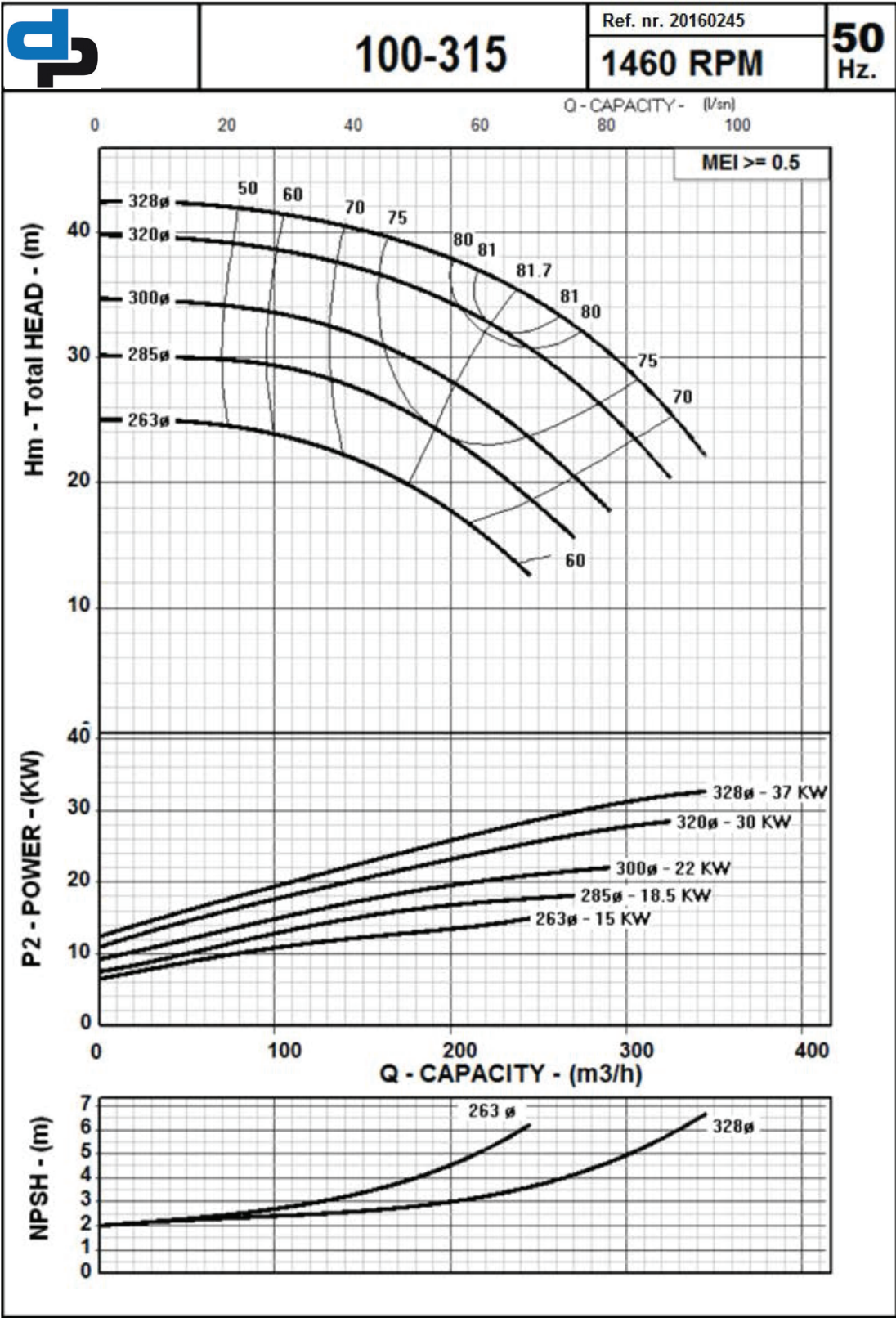
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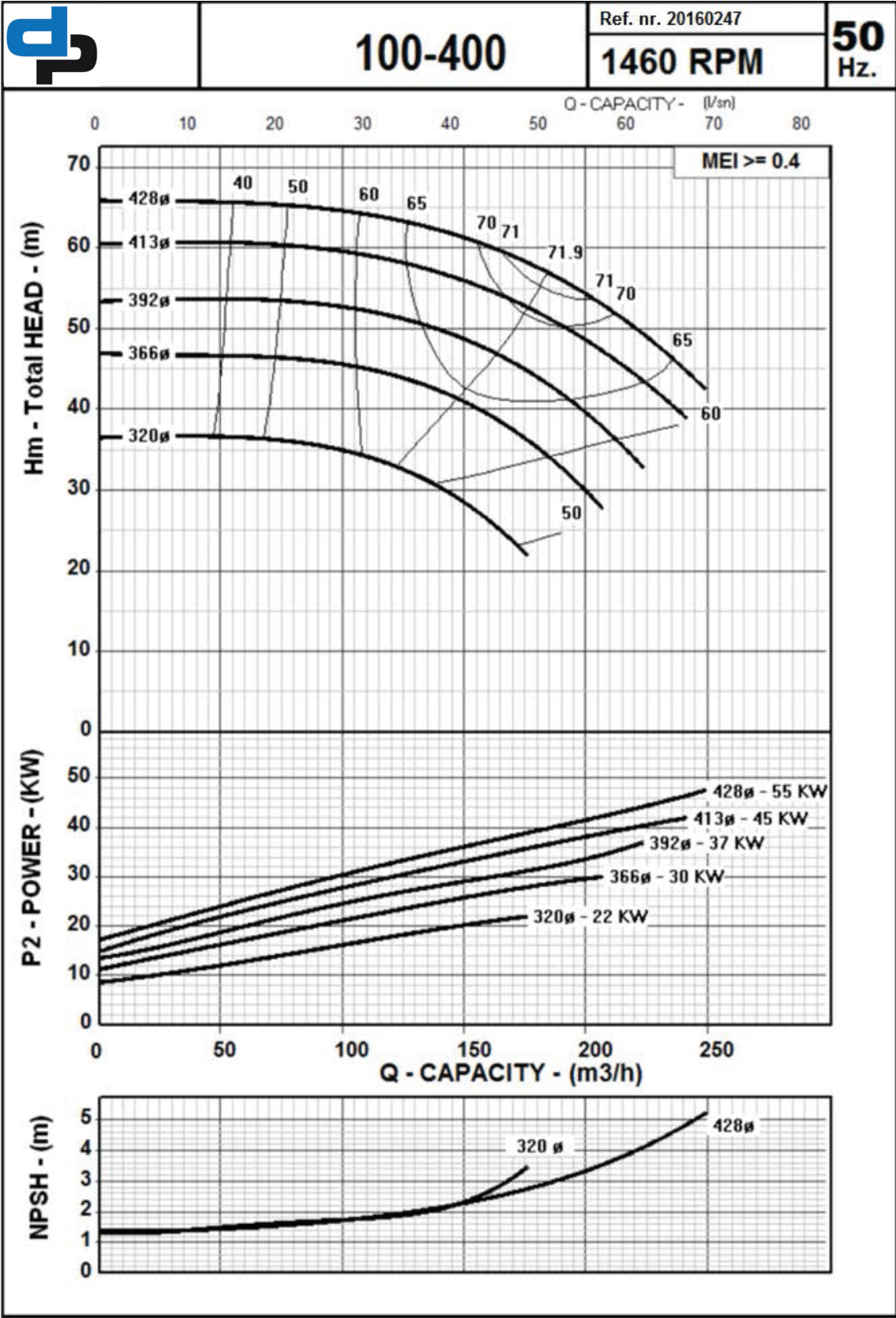
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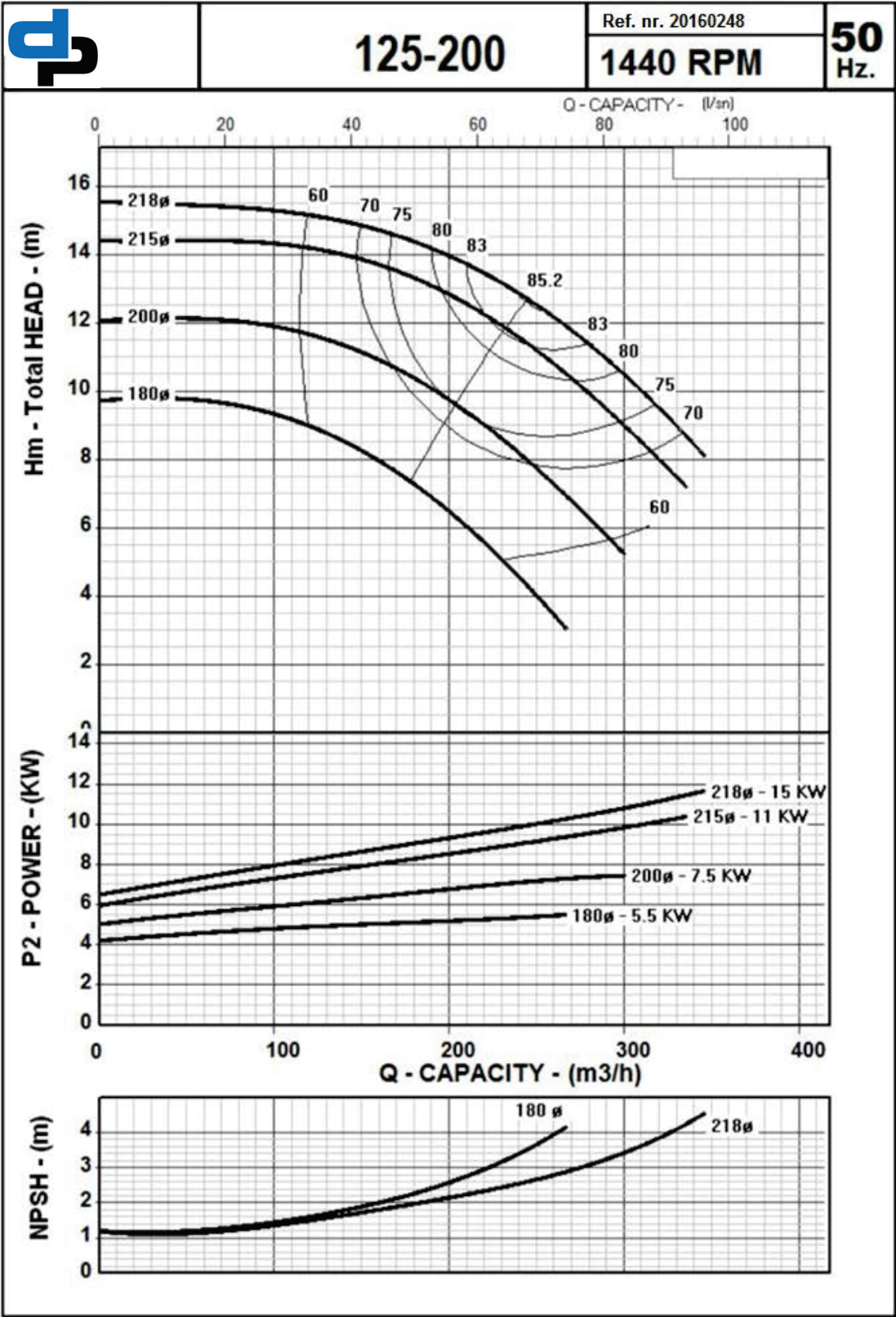
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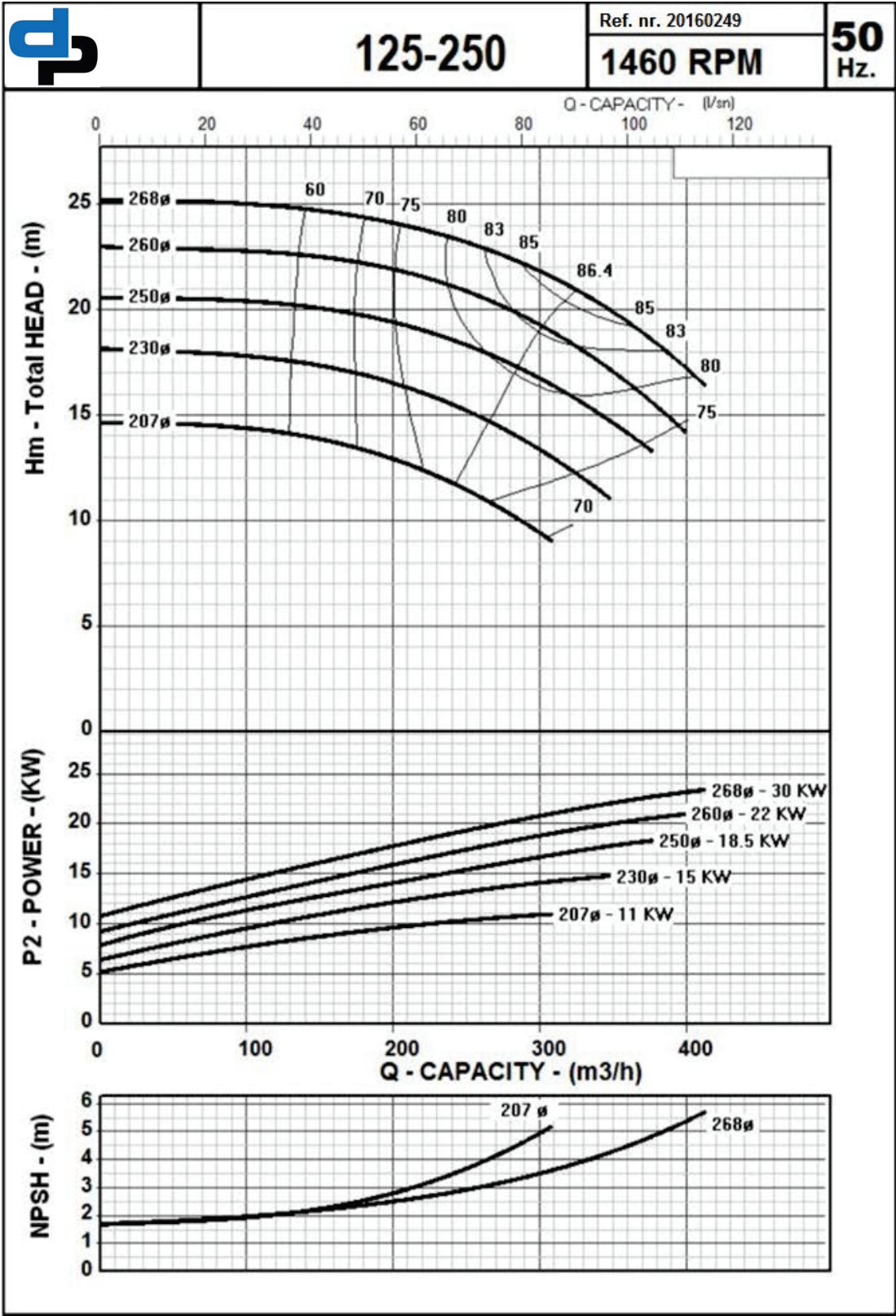
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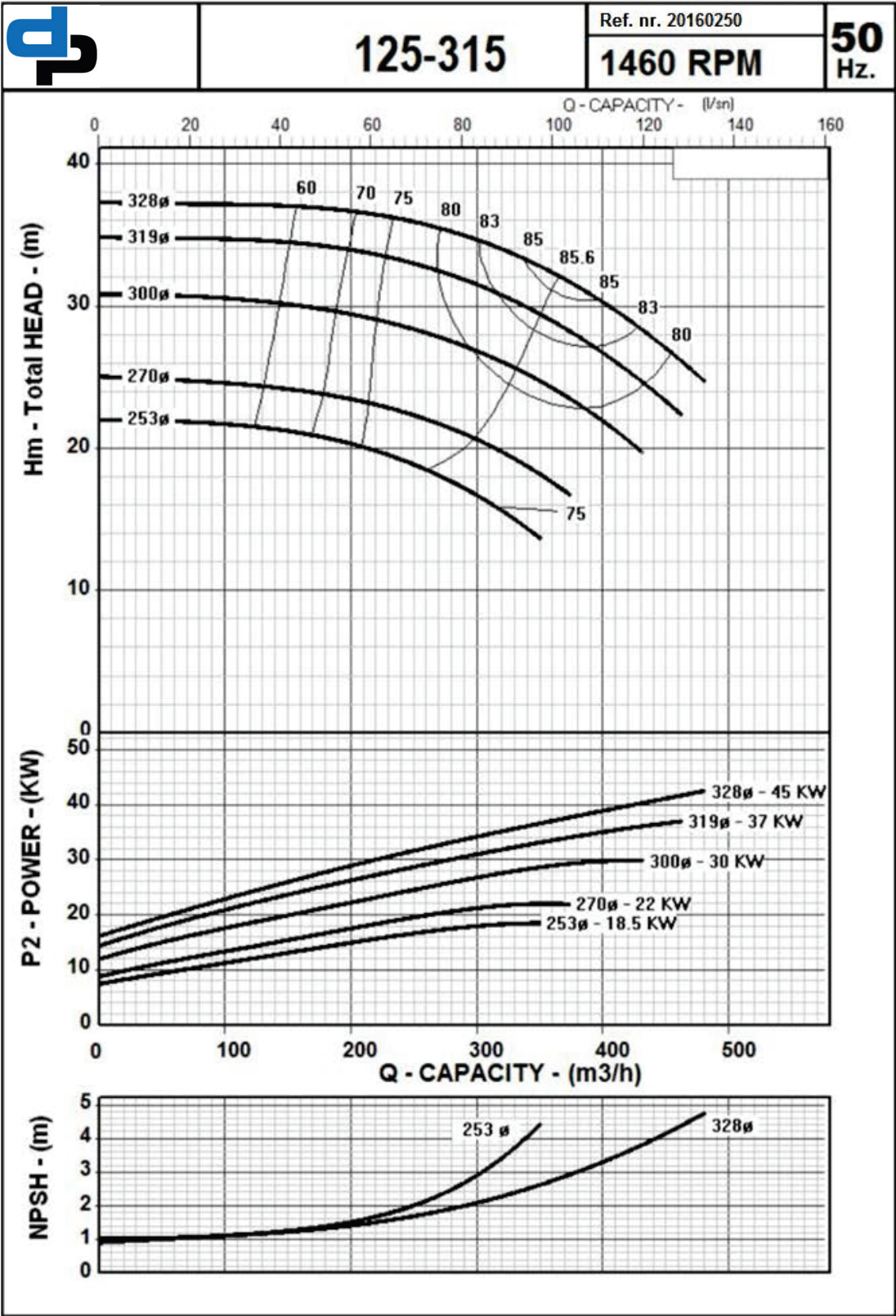
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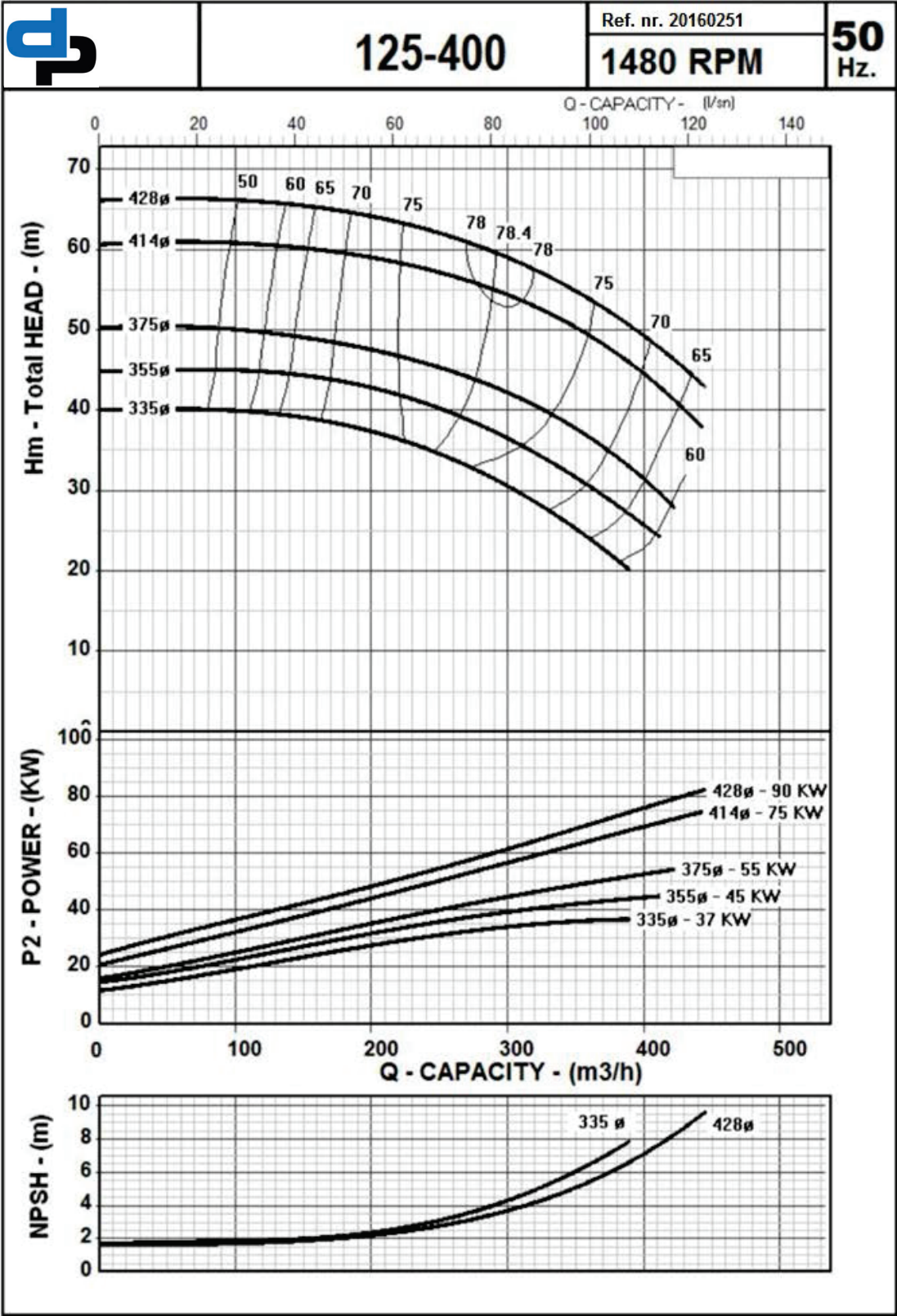
2.49 DPNT 125-250 4P



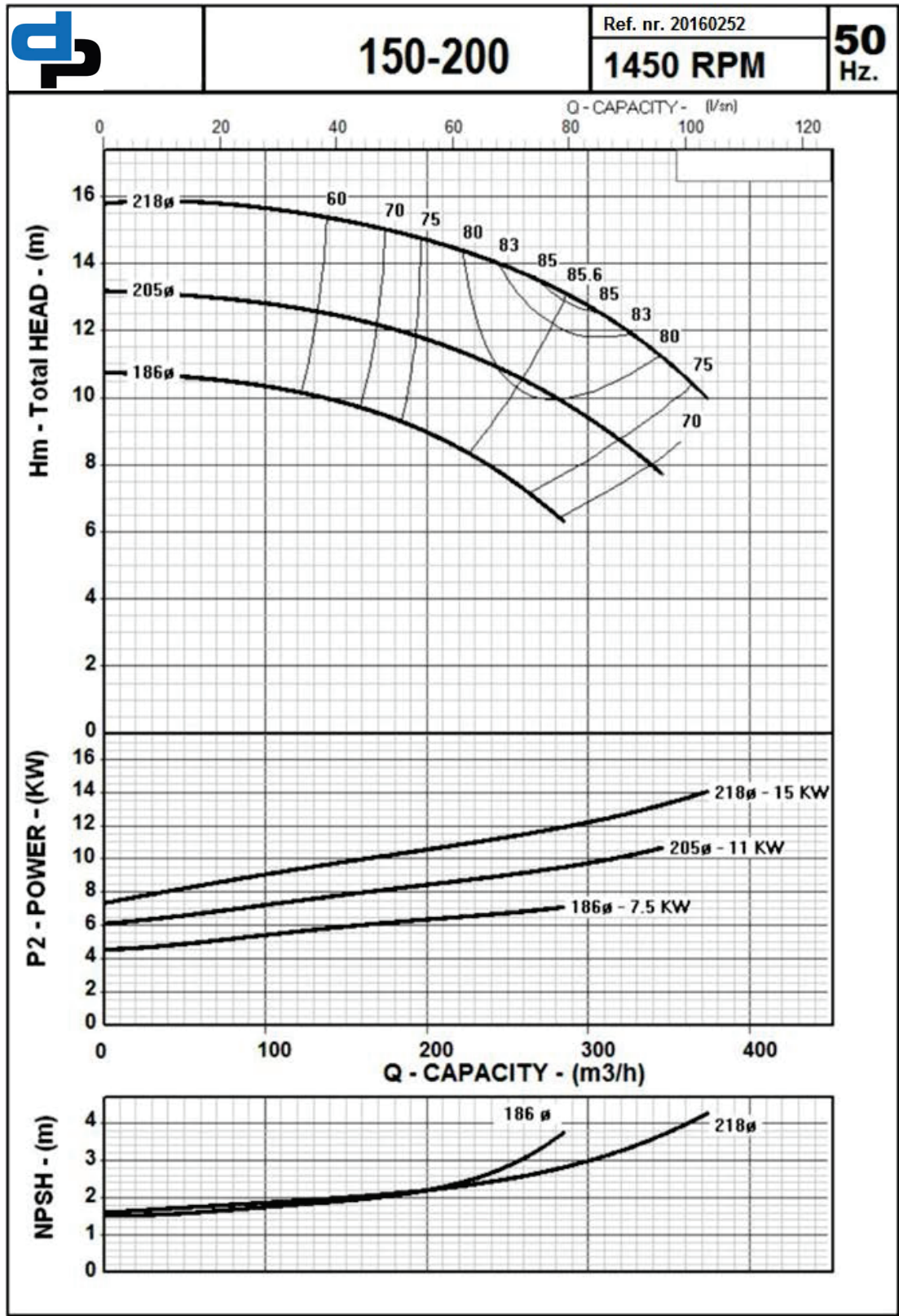
2.50 DPNT 125-315 4P



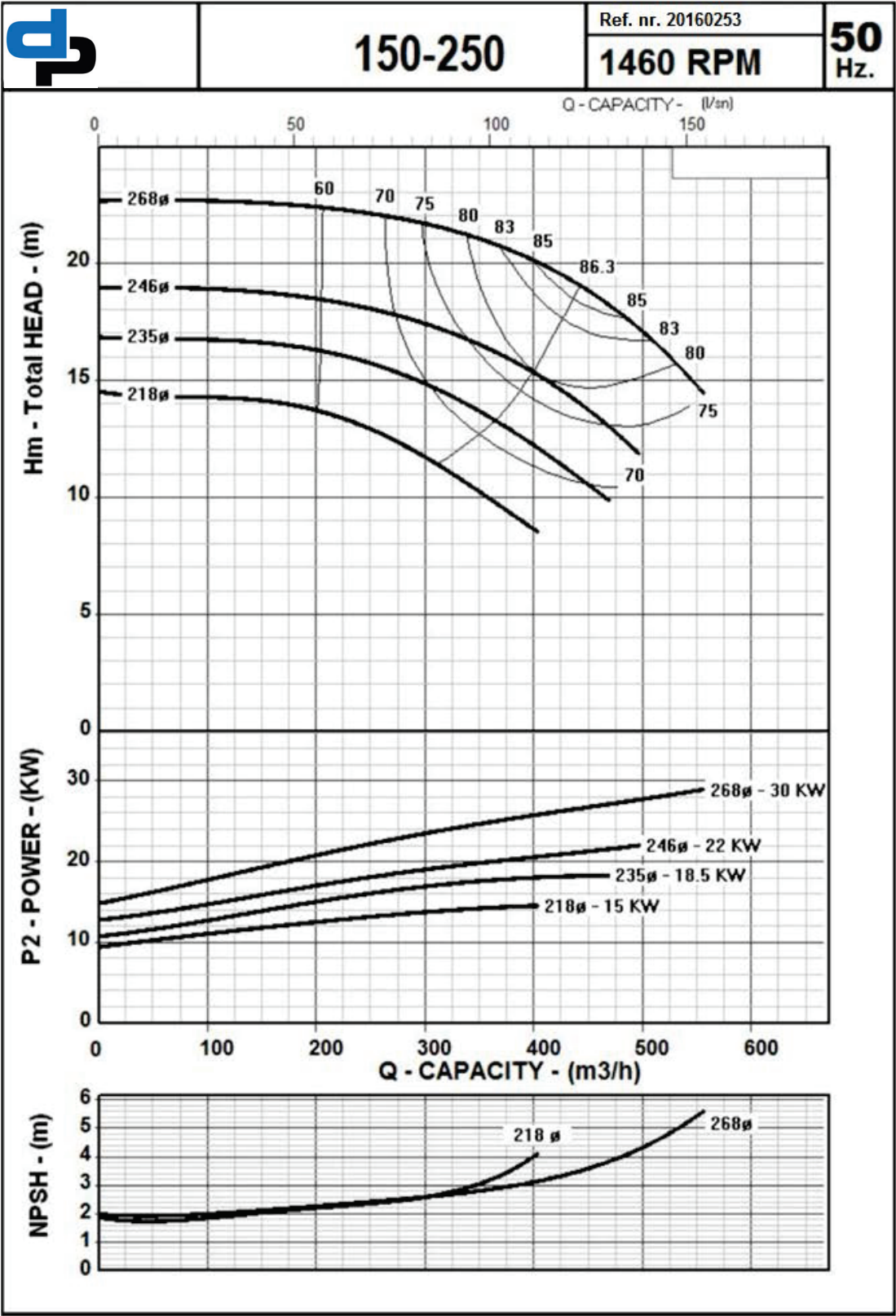
2.51 DPNT 125-400 4P



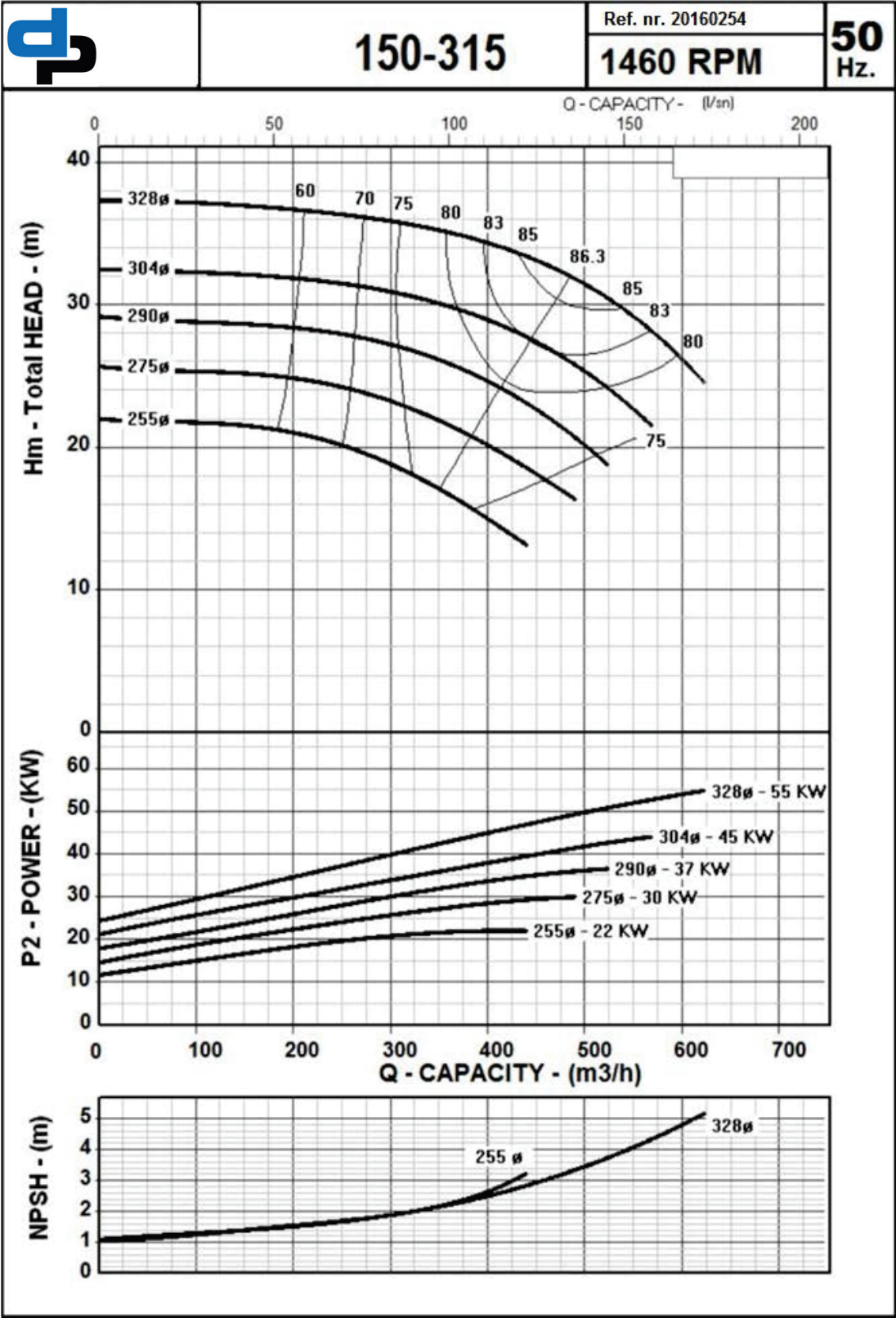
2.52 DPNT 150-200 4P



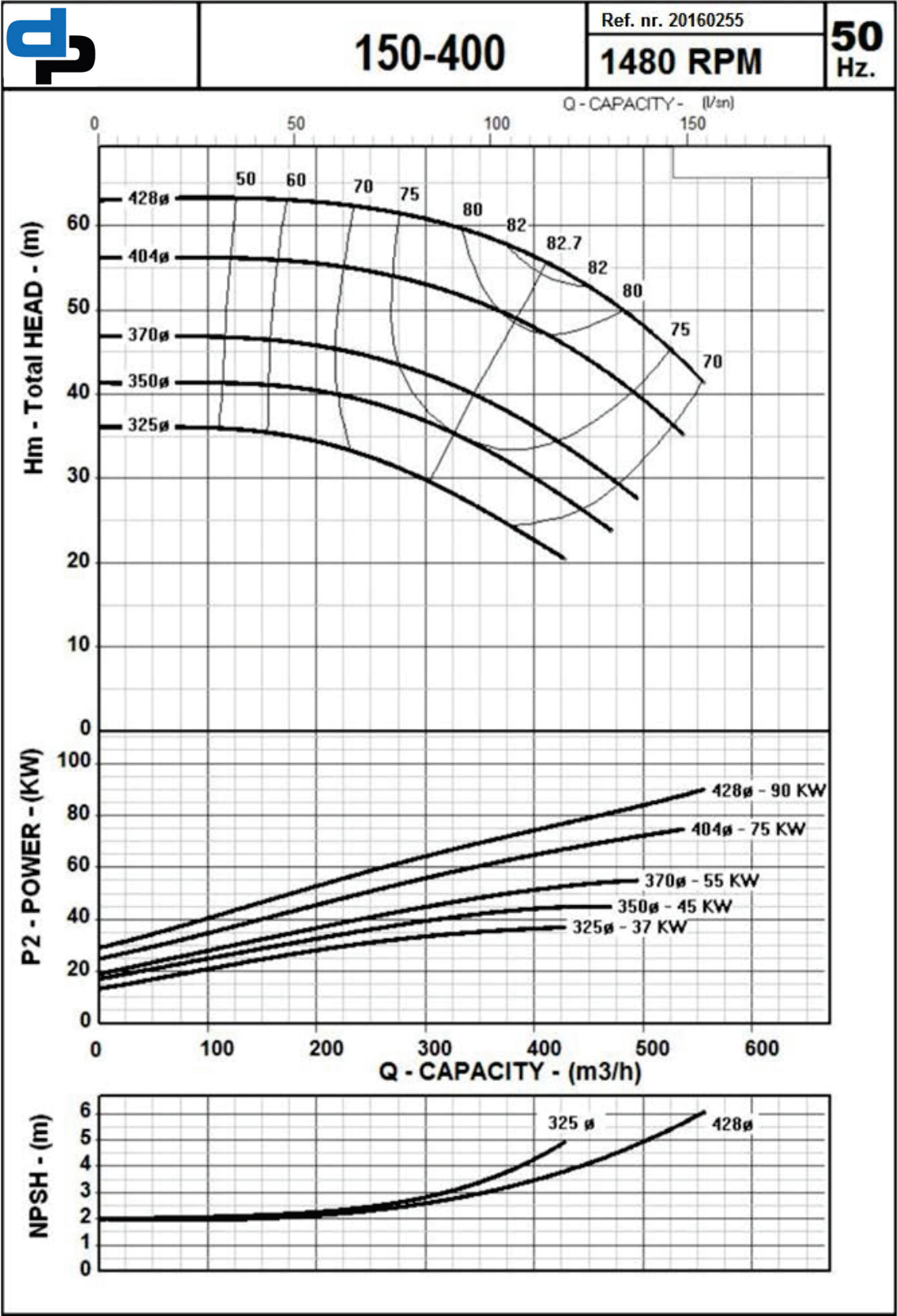
2.53 DPNT 150-250 4P



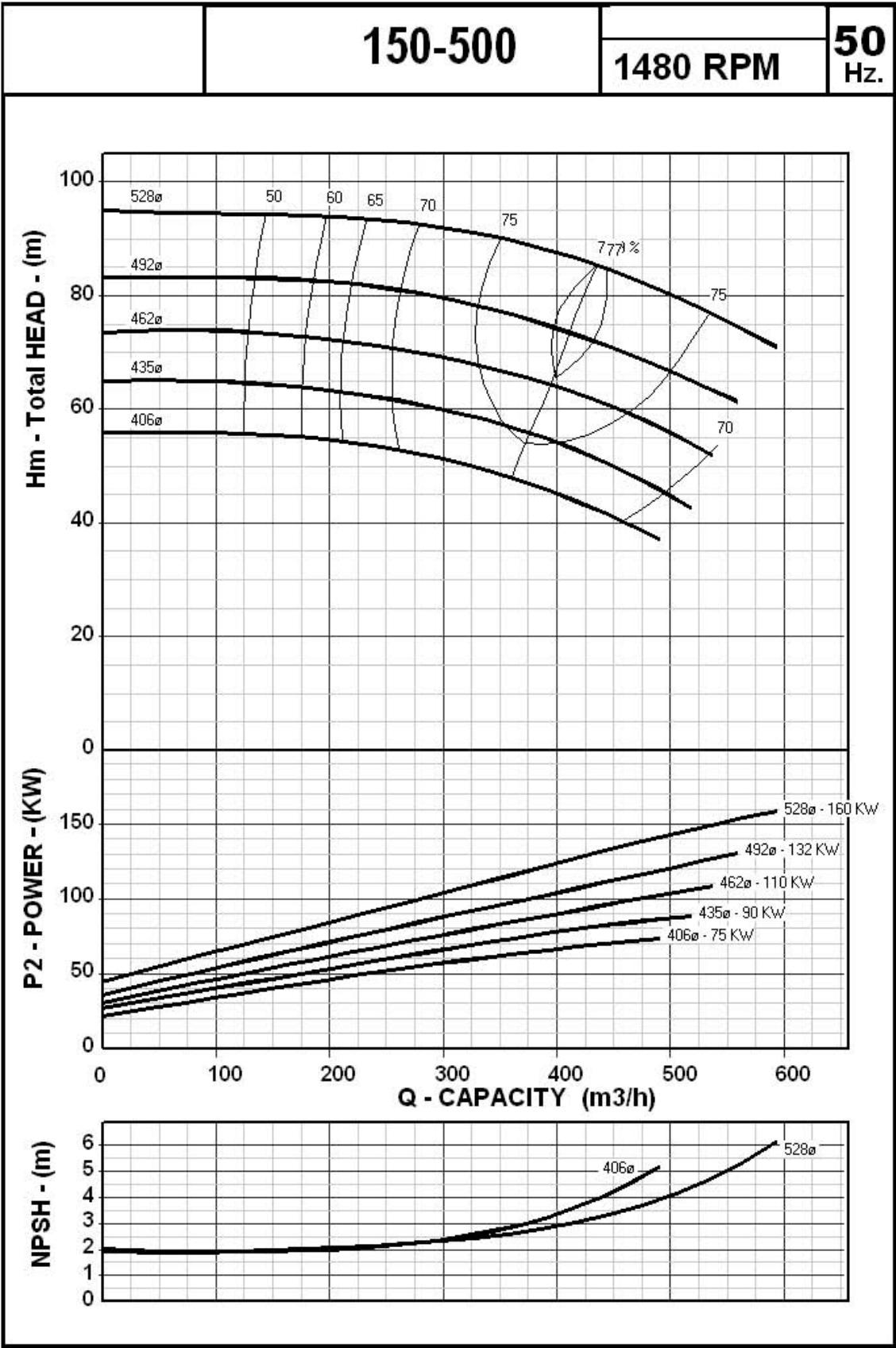
2.54 DPNT 150-315 4P



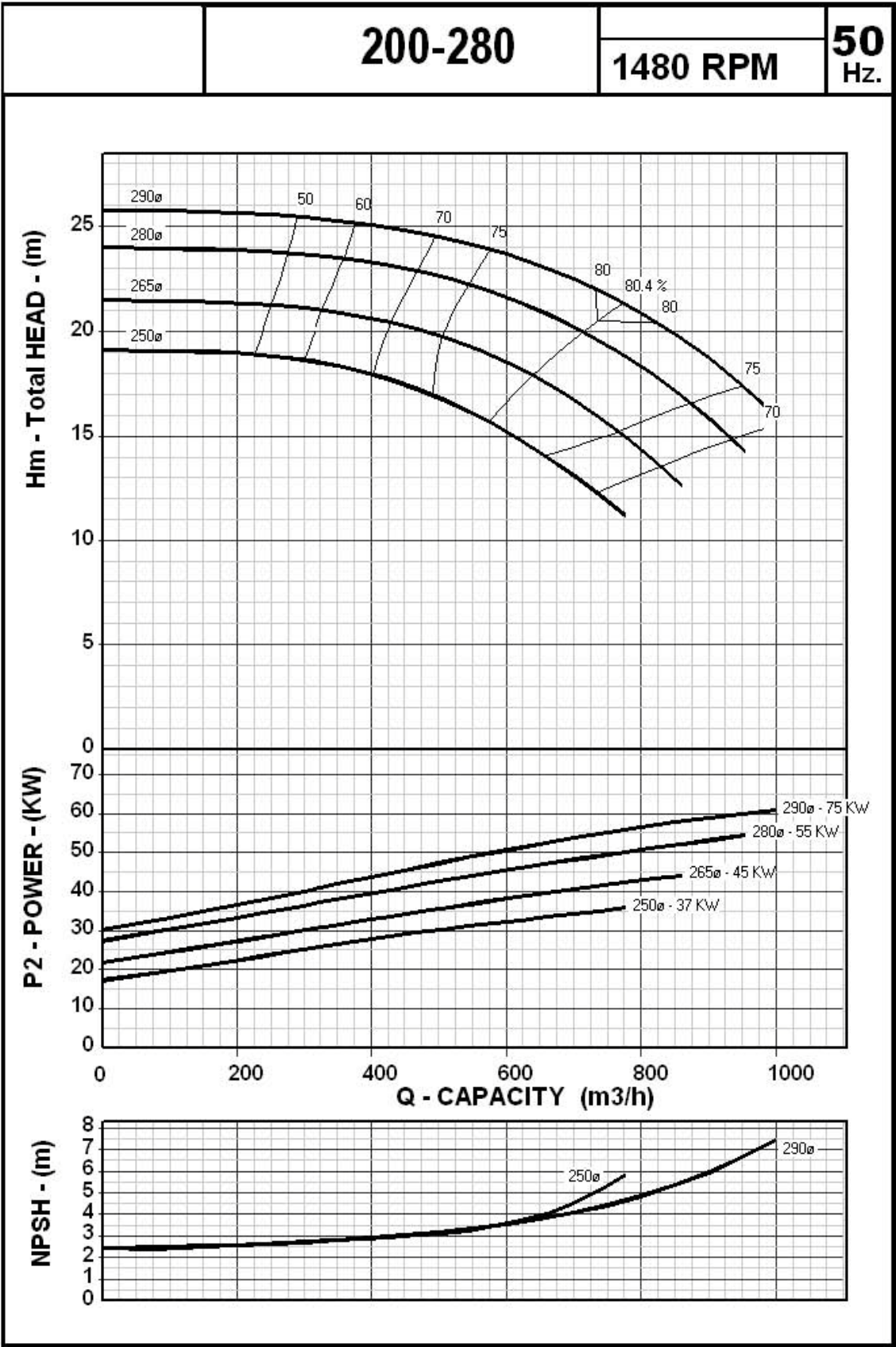
2.55 DPNT 150-400 4P



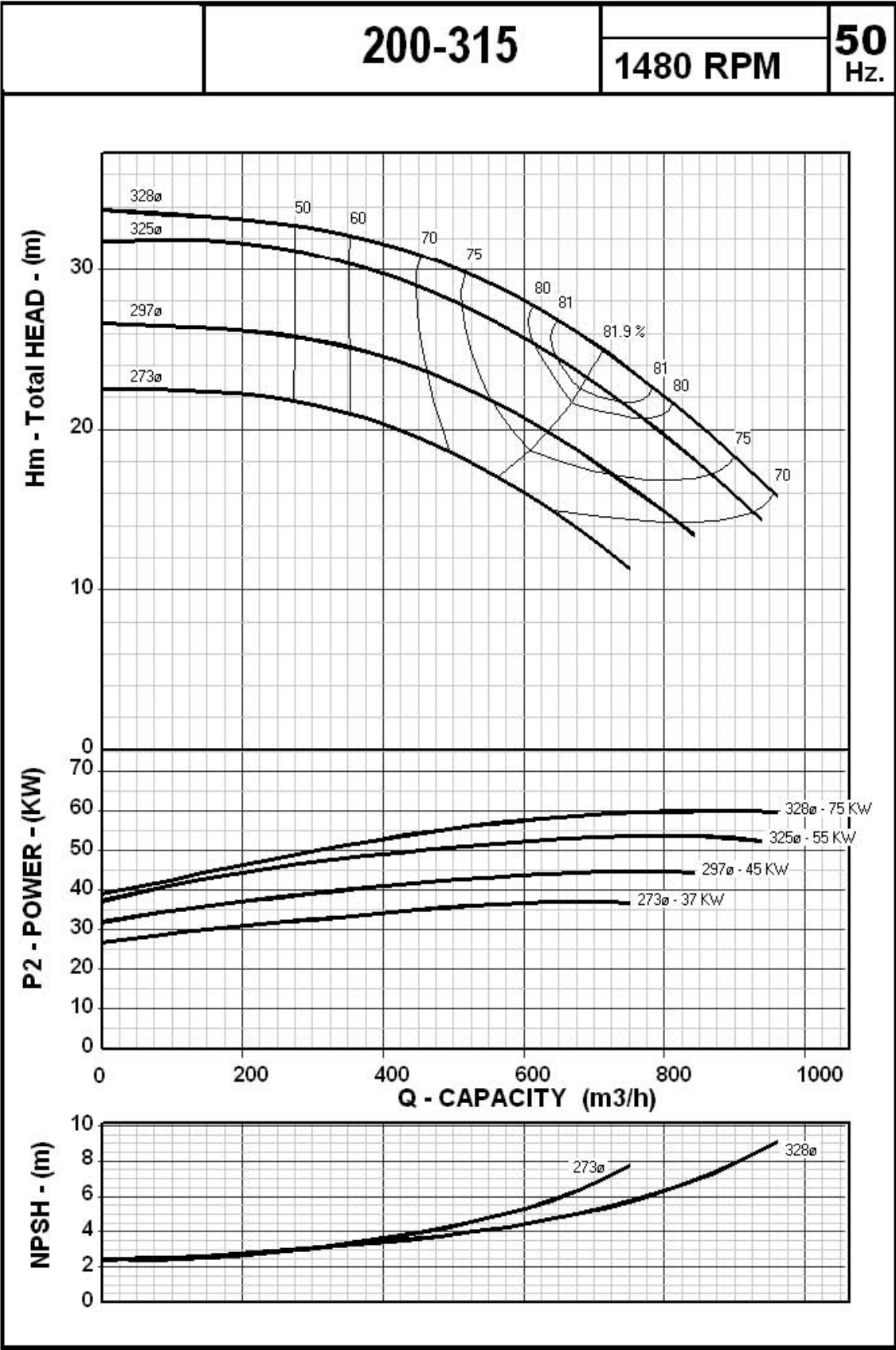
2.56 DPNT 150-500 4P



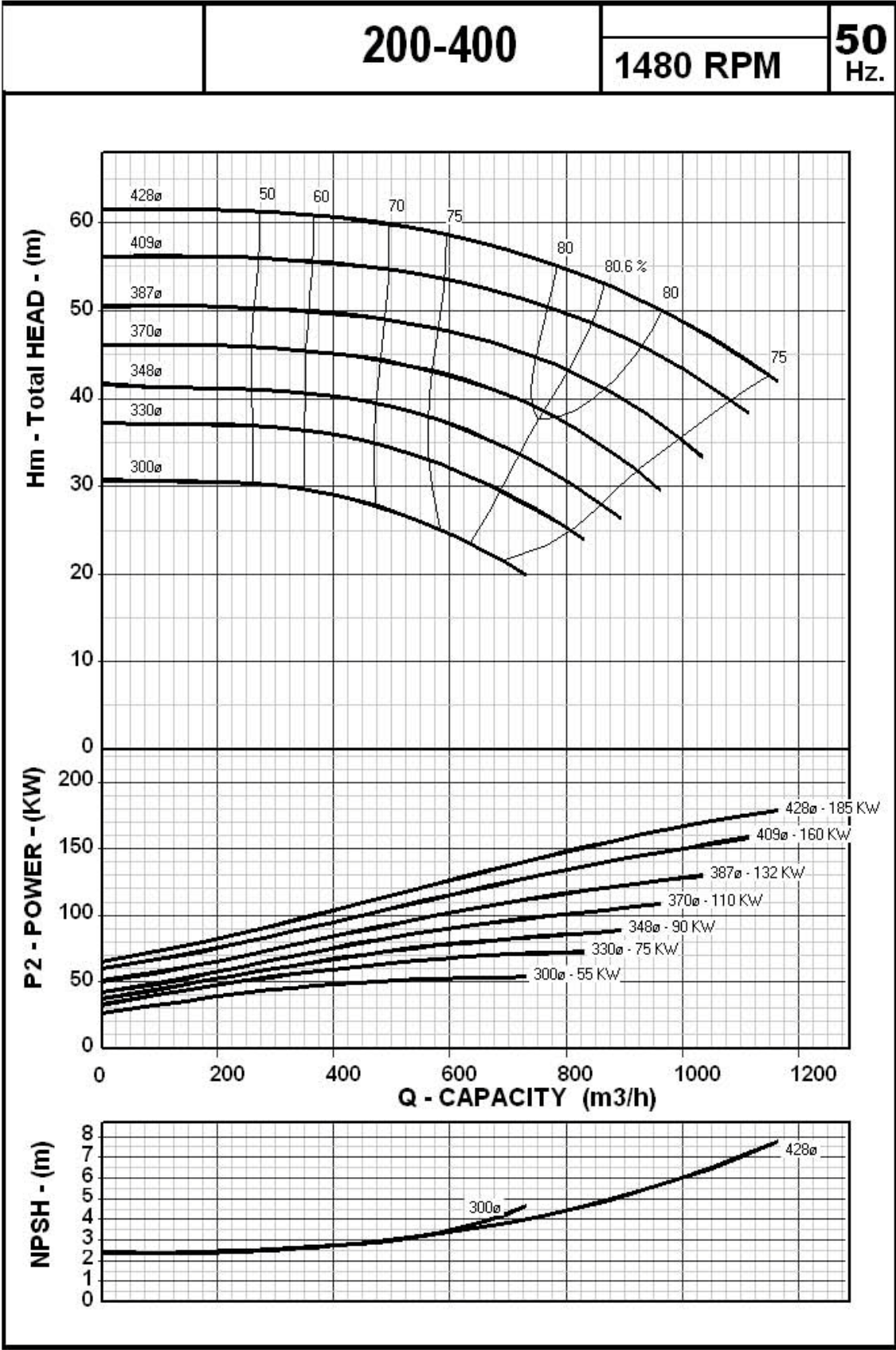
2.57 DPNT 200-280 4P



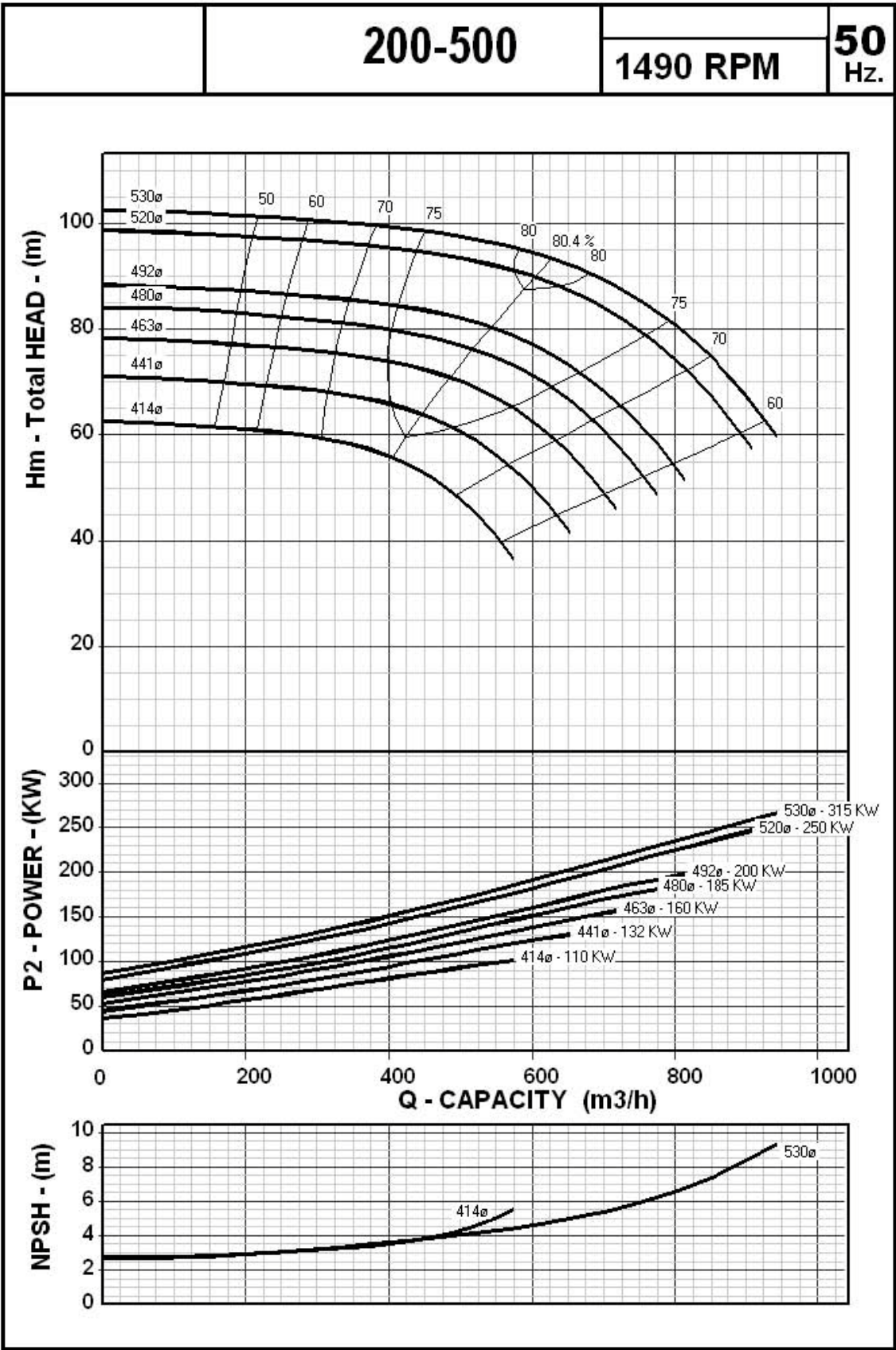
2.58 DPNT 200-315 4P



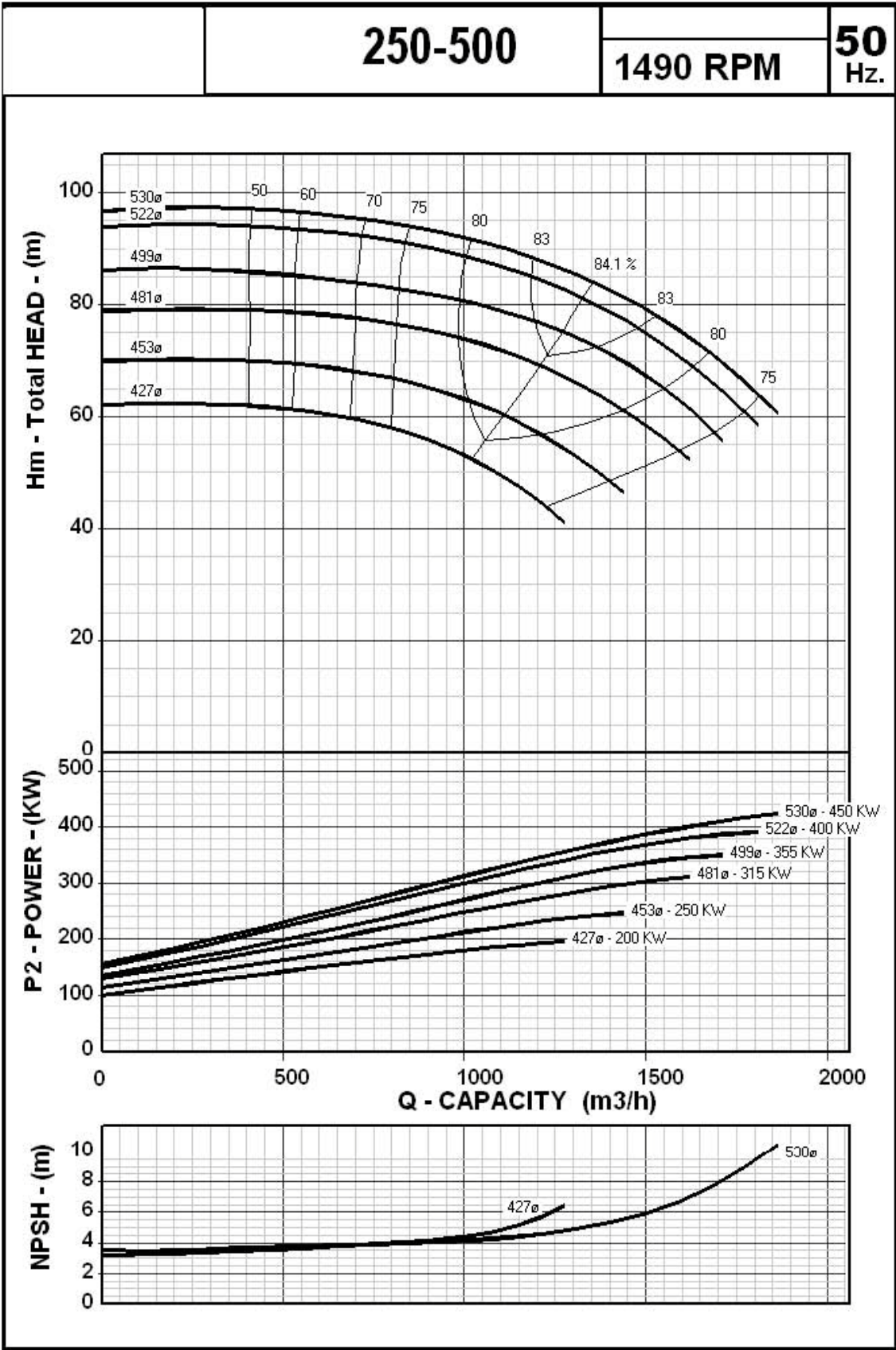
2.59 DPNT 200-400 4P



2.60 DPNT 200-500 4P



2.61 DPNT 250-500 4P



3 General data

3.1 General data DPNT 2 pole

Table 3: General data DPNT 2 pole

Model	Imp. (mm)	MEI	P2 (kW)	IEC con.	Part number
32-160	123	0,4	1,5	90L2C	20322125C123
32-160	135	0,4	2,2	90L2D	20322125C135
32-160	146	0,4	3	100L2C	20322125C146
32-160	163	0,4	4	112M2C	20322125D163
32-160	174	0,4	5,5	132S2C	20322125D174
32-200	165	0,7	4	112M2C	20323125D165
32-200	183	0,7	5,5	132S2C	20323125D183
32-200	210	0,7	7,5	132M2A	20323125D210
32-200	218	0,7	11	60M2B	20323125D218
32-200	195	0,5	5,5	132S2C	20324125D195
32-200	213	0,5	7,5	132M2A	20324125D213
32-200	235	0,5	11	160M2B	20324125D235
32-200	260	0,5	15	160L2A	20324125D260
32-200	268	0,5	18,5	160L2C	20324125D268
40-160	136	0,4	3	100L2C	20402125C136
40-160	153	0,4	4	112M2C	20402125D153
40-160	164	0,4	5,5	132S2C	20402125D164
40-160	174	0,4	7,5	132M2A	20402125D174
40-200	168	0,7	5,5	132S2C	20403125D168
40-200	178	0,7	7,5	132M2A	20403125D178
40-200	208	0,7	11	160M2B	20403125D208
40-200	218	0,7	15	160L2A	20403125D218
40-200	231	0,6	15	160L2A	20404125D231
40-200	251	0,6	18,5	160L2C	20404125D251
40-200	258	0,6	22	180M2A	20404125D258
40-200	268	0,6	30	200L2B	20404125D268
50-160	132	0,4	4	112M2C	20502125D132
50-160	144	0,4	5,5	132S2C	20502125D144
50-160	157	0,4	7,5	132M2A	20502125D157
50-160	174	0,4	11	160M2B	20502125D174
50-200	172	0,6	7,5	132M2A	20503125D172
50-200	188	0,6	11	160M2B	20503125D188
50-200	200	0,6	15	160L2A	20503125D200
50-200	210	0,6	18,5	160L2C	20503125D210
50-200	218	0,6	22	180M2A	20503125D218
50-250	210	0,5	22	180M2A	20504125D210
50-250	234	0,5	30	200L2B	20504125D234
50-250	258	0,5	37	200L2C	20504125D258
50-250	268	0,5	45	225M2B	20504125D268
50-315	263	0,4	37	200L2C	20506125D263
50-315	285	0,4	45	225M2B	20506125D285
50-315	310	0,4	55	250M2B	20506125D310
65-160	128	0,5	5,5	132S2C	20652125D128
65-160	139	0,5	7,5	132M2A	20652125D139
65-160	157	0,5	11	160M2B	20652125D157

Model	Imp. (mm)	MEI	P2 (kW)	IEC con.	Part number
65-160	170	0,5	15	160L2A	20652125D170
65-160	174	0,5	18	160L2C	20652125D174
65-200	179	0,4	18	160L2C	20653125D179
65-200	193	0,4	22	180M2A	20653125D193
65-200	208	0,4	30	200L2B	20653125D208
65-200	218	0,4	37	200L2C	20653125D218
65-250	204	0,5	22	180M2A	20654125D204
65-250	220	0,5	30	200L2B	20654125D220
65-250	236	0,5	37	200L2C	20654125D236
65-250	252	0,5	45	225M2B	20654125D252
65-250	268	0,5	55	250M2B	20654125D268
65-315	260	0,5	55	250M2B	20656125D260
65-315	290	0,5	75	280M2B	20656125D290
65-315	307	0,5	90	280M2C	20656125D307
80-160	130	0,4	7,5	132M2A	20802125D130
80-160	144	0,4	11	160M2B	20802125D144
80-160	162	0,4	15	160L2A	20802125D162
80-160	169	0,4	18,5	160L2C	20802125D169
80-160	174	0,4	22	180M2A	20802125D174
80-200	170	0,4	22	180M2A	20803125D170
80-200	183	0,4	30	200L2B	20803125D183
80-200	197	0,4	37	200L2C	20803125D197
80-200	208	0,4	45	225M2B	20803125D208
80-200	218	0,4	55	250M2B	20803125D218
80-250	218	0,4	45	225M2B	20804125D218
80-250	229	0,4	55	250M2B	20804125D229
80-250	250	0,4	75	280M2B	20804125D250
80-250	268	0,4	90	280M2C	20804125D268
80-315	265	0,5	90	280M2C	20806125D265
80-315	280	0,5	110	315S2	20806125D280
80-315	297	0,5	132	315M2	20806125D297
80-315	310	0,5	160	315M2	20806125D310
100-160	132	0,4	11	160M2B	21002125D132
100-160	145	0,4	15	160L2A	21002125D145
100-160	159	0,4	22	180M2A	21002125D159
100-160	169	0,4	30	200L2B	21002125D169
100-160	174	0,4	37	200L2C	21002125D174
100-200	180	0,4	30	200L2B	21003125D180
100-200	190	0,4	37	200L2C	21003125D190
100-200	198	0,4	45	225M2B	21003125D198
100-200	210	0,4	55	250M2B	21003125D210
100-200	218	0,4	75	280M2B	21003125D218
100-250	213	0,4	55	250M2B	21004125D213
100-250	234	0,4	75	280M2B	21004125D234
100-250	250	0,4	90	280M2C	21004125D250
100-250	268	0,4	110	315S2	21004125D268

3.2 General data DPNT 4 pole

Table 4: General data DPNT 4 pole

Model	Imp (mm)	MEI	P2 (kW)	IEC con.	Partnumber
32-160	135	0,6	0,25	71M4C	20322127C135
32-160	148	0,6	0,37	71M4D	20322127C148
32-160	168	0,6	0,55	80M4B	20322127C168
32-160	174	0,6	0,75	80M4D	20322127C174
32-200	158	0,7	0,37	71M4D	20323127C158
32-200	175	0,7	0,55	80M4B	20323127C175
32-200	195	0,7	0,75	80M4D	20323127C195
32-200	212	0,7	1,1	90L4C	20323127C212
32-200	218	0,7	1,5	90L4D	20323127C218
32-250	189	0,5	0,55	80M4B	20324127C189
32-250	205	0,5	0,75	80M4D	20324127C205
32-250	230	0,5	1,1	90L4C	20324127C230
32-250	252	0,5	1,5	90L4D	20324127C252
32-250	268	0,5	2,2	100L4C	20324127C268
40-160	120	0,4	0,25	71M4C	20402127C120
40-160	140	0,4	0,37	71M4D	20402127C140
40-160	159	0,4	0,55	80M4B	20402127C159
40-160	174	0,4	0,75	80M4D	20402127C174
40-200	172	0,7	0,75	80M4D	20403127C172
40-200	200	0,7	1,1	90L4C	20403127C200
40-200	218	0,7	1,5	90L4D	20403127C218
40-250	220	0,7	1,5	90L4D	20404127C220
40-250	245	0,7	2,2	100L4C	20404127C245
40-250	268	0,7	3	100L4D	20404127C268
50-160	148	0,5	0,75	80M4D	20502127C148
50-160	165	0,5	1,1	90L4C	20502127C165
50-160	174	0,5	1,5	90L4D	20502127C174
50-200	180	0,6	1,1	90L4C	20503127C180
50-200	194	0,6	1,5	90L4D	20503127C194
50-200	218	0,6	2,2	100L4C	20503127C218
50-250	203	0,6	2,2	100L4C	20504127C203
50-250	220	0,6	3	100L4D	20504127C220
50-250	247	0,6	4	112M4C	20504127D247
50-250	268	0,6	5,5	132M4B	20504127D268
50-315	263	0,5	4	112M4C	20506127D263
50-315	285	0,5	5,5	132M4B	20506127D285
50-315	313	0,5	7,5	132M4C	20506127D313
50-315	346	0,5	11	160M4B	20506127D346
50-315	358	0,5	15	160L4A	20506127D358
65-160	135	0,6	0,75	80M4D	20652127C135
65-160	146	0,6	1,1	90L4C	20652127C146
65-160	164	0,6	1,5	90L4D	20652127C164
65-160	174	0,6	2,2	100L4C	20652127C174
65-200	180	0,5	2,2	100L4C	20653127C180
65-200	200	0,5	3	100L4D	20653127C200
65-200	218	0,5	4	112M4C	20653127D218
65-250	212	0,5	3	100L4D	20654127C212
65-250	235	0,5	4	112M4C	20654127D235
65-250	253	0,5	5,5	132M4B	20654127D253
65-250	268	0,5	7,5	132M4C	20654127D268
65-315	260	0,6	7,5	132M4C	20656127D260

Model	Imp (mm)	MEI	P2 (kW)	IEC con.	Partnumber
65-315	302	0,6	11	160M4B	20656127D302
65-315	328	0,6	15	160L4A	20656127D328
65-400	315	0,6	11	160M4B	20658127D315
65-400	345	0,6	15	160L4A	20658127D345
65-400	370	0,6	18,5	180M4B	20658127D370
65-400	392	0,6	22	180L4B	20658127D392
65-400	413	0,6	30	200L4D	20658127D413
80-160	142	0,4	1,1	90L4C	20802127C142
80-160	155	0,4	1,5	90L4D	20802127C155
80-160	168	0,4	2,2	100L4C	20802127C168
80-160	174	0,4	3	100L4D	20802127C174
80-200	165	0,4	2,2	100L4C	20803127C165
80-200	177	0,4	3	100L4D	20803127C177
80-200	193	0,4	4	112M4C	20803127D193
80-200	212	0,4	5,5	132M4B	20803127D212
80-200	218	0,4	7,5	132M4C	20803127D218
80-250	220	0,4	5,5	132M4B	20804127D220
80-250	237	0,4	7,5	132M4C	20804127D237
80-250	260	0,4	11	160M4B	20804127D260
80-250	268	0,4	15	160L4A	20804127D268
80-315	265	0,6	11	160M4B	20806127D265
80-315	290	0,6	15	160L4A	20806127D290
80-315	308	0,6	18,5	180M4B	20806127D308
80-315	328	0,6	22	180L4B	20806127D328
80-400	333	0,4	18,5	180M4B	20808127D333
80-400	355	0,4	22	180L4B	20808127D355
80-400	388	0,4	30	200L4D	20808127D388
80-400	408	0,4	37	225M4C	20808127D408
80-400	428	0,4	45	225M4D	20808127D428
100-160	127	0,5	1,1	90L4C	21002127C127
100-160	138	0,5	1,5	90L4D	21002127C138
100-160	150	0,5	2,2	100L4C	21002127C150
100-160	165	0,5	3	100L4D	21002127C165
100-160	174	0,5	4	112M4C	21002127D174
100-200	170	0,4	3	100L4D	21003127C170
100-200	183	0,4	4	112M4C	21003127D183
100-200	203	0,4	5,5	132M4B	21003127D203
100-200	218	0,4	7,5	132M4C	21003127D218
100-250	200	0,5	5,5	132M4B	21004127D200
100-250	220	0,5	7,5	132M4C	21004127D220
100-250	244	0,5	11	160M4B	21004127D244
100-250	264	0,5	15	160L4A	21004127D264
100-250	268	0,5	18,5	180M4B	21004127D268
100-315	263	0,5	15	160L4A	21006127D263
100-315	285	0,5	18,5	180M4B	21006127D285
100-315	300	0,5	22	180L4B	21006127D300
100-315	320	0,5	30	200L4D	21006127D320
100-315	328	0,5	37	225M4C	21006127D328
100-400	320	0,4	22	180L4B	21008127D320
100-400	366	0,4	30	200L4D	21008127D366
100-400	392	0,4	37	225M4C	21008127D392
100-400	413	0,4	45	225M4D	21008127D413
100-400	428	0,4	55	250M4D	21008127D428
125-200	180		5,5	132M4B	21253127D180

Model	Imp (mm)	MEI	P2 (kW)	IEC con.	Partnumber
125-200	200		7,5	132M4C	21253127D200
125-200	215		11	160M4B	21253127D215
125-200	218		15	160L4A	21253127D218
125-250	207		11	160M4B	21254127D207
125-250	230		15	160L4A	21254127D230
125-250	250		18,5	180M4B	21254127D250
125-250	260		22	180L4B	21254127D260
125-250	268		30	200L4D	21254127D268
125-315	253		18,5	180M4B	21256127D253
125-315	270		22	180L4B	21256127D270
125-315	300		30	200L4D	21256127D300
125-315	319		37	225M4C	21256127D319
125-315	328		45	225M4D	21256127D328
125-400	335		37	225M4C	21258127D335
125-400	355		45	225M4D	21258127D355
125-400	375		55	250M4D	21258127D375
125-400	414		75	280M4B	21258127D414
125-400	428		90	280M4C	21258127D428
150-200	186		7,5	132M4C	21504127D186
150-200	205		11	160M4B	21504127D205
150-200	218		15	160L4A	21504127D218
150-250	218		15	160L4A	21504127D218
150-250	235		18,5	180M4B	21504127D235
150-250	246		22	180L4B	21504127D246
150-250	268		30	200L4D	21504127D268
150-315	255		22	180L4B	21506127D255
150-315	275		30	200L4D	21506127D275
150-315	290		37	225M4C	21506127D290
150-315	304		45	225M4D	21506127D304
150-315	328		55	250M4D	21506127D328
150-400	325		37	225M4C	21508127D325
150-400	350		45	225M4D	21508127D350
150-400	370		55	250M4D	21508127D370
150-400	404		75	280M4B	21508127D404
150-400	428		90	280M4C	21508127D428
150-500	406		75	280S4	2150A127D406
150-500	435		90	280M4	2150A127D435
150-500	462		110	315S4	2150A127D462
150-500	492		132	315M4	2150A127D492
150-500	528		160	315M4	2150A127D528
200-280	250		37	225S4A	22005127D250
200-280	265		45	225M4C	22005127D265
200-280	280		55	250M4C	22005127D280
200-280	290		75	280S4	22005127D290
200-315	273		37	225S4A	22006127D273
200-315	297		45	225M4C	22006127D297
200-315	325		55	250M4C	22006127D325
200-315	328		75	280S4	22006127D328
200-400	300		55	250M4C	22008127D300
200-400	330		75	280S4	22008127D330
200-400	348		90	280M4	22008127D348
200-400	370		110	315S4	22008127D370
200-400	387		132	315M4	22008127D387
200-400	409		160	315M4	22008127D409

Model	Imp (mm)	MEI	P2 (kW)	IEC con.	Partnumber
200-400	428		185	315L4	22008127D428
200-500	414		110	315S4	2200A127D414
200-500	441		132	315M4	2200A127D441
200-500	463		160	315M4	2200A127D463
200-500	480		185	315L4	2200A127D480
200-500	492		200	315L4	2200A127D492
200-500	520		250	355M4	2200A127D520
200-500	530		315	355M4	2200A127D530
250-315	267		37	225S4A	22506127D267
250-315	283		45	225M4C	22506127D283
250-315	300		55	250M4C	22506127D300
250-315	328		75	280S4	22506127D328
250-400	330		75	280S4	22508127D330
250-400	348		90	280M4	22508127D348
250-400	365		110	315S4	22508127D365
250-400	381		132	315M4	22508127D381
250-400	400		160	315M4	22508127D400
250-400	428		200	315L4	22508127D428
250-500	427		200	315L4	2250A127D427
250-500	453		250	355M4	2250A127D453
250-500	481		315	355M4	2250A127D481
250-500	499		355	355M4	2250A127D499
250-500	522		400	o.r	2250A127D522
250-500	530		450	o.r	2250A127D530

4 Dimensions

4.1 General DPNT dimensions bare shaft

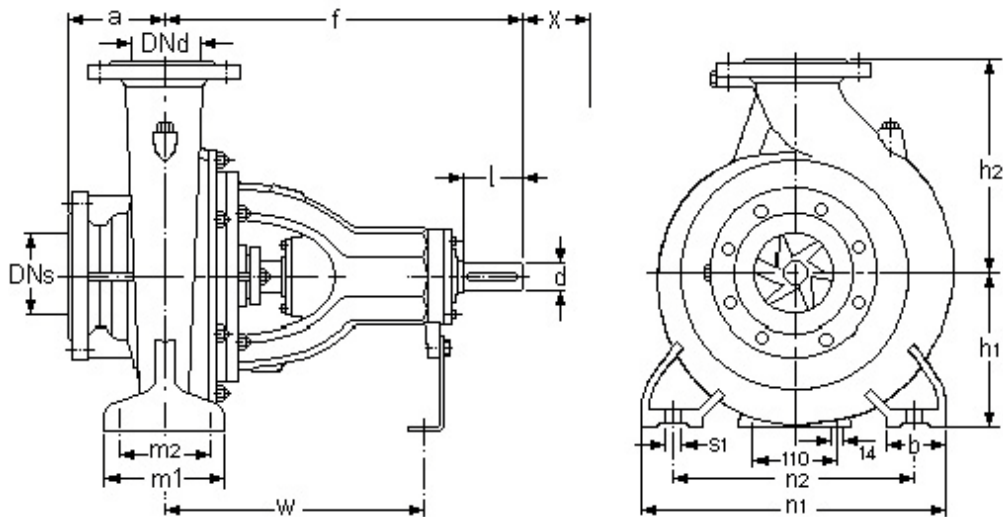


Figure 1: Drawing DPNT Bare shaft

Table 5: Dimensions DPNT bare shaft [mm]

Model	DNs	DNd	a	f	h1	h2	b	m1	m2	n1	n2	s1	W	d	l	X	m [kg]
32-160	DN50-PN16	DN32-PN16	80	360	132	160	50	100	70	240	190	12	260	24	50	65	37
32-200	DN65-PN16	DN32-PN16	80	360	160	180	50	100	70	240	190	12	260	24	50	65	40
32-250	DN50-PN16	DN32-PN16	100	360	180	225	50	125	95	320	250	12	260	24	50	80	45
40-160	DN65-PN16	DN40-PN16	80	360	132	160	50	100	70	240	190	12	260	24	50	75	38
40-200	DN65-PN16	DN40-PN16	100	360	160	180	50	100	70	265	212	12	260	24	50	75	45
40-250	DN65-PN16	DN40-PN16	100	360	180	225	65	125	95	320	250	12	260	24	50	75	54
50-160	DN65-PN16	DN50-PN16	100	360	160	180	50	100	70	265	212	12	260	24	50	80	42
50-200	DN65-PN16	DN50-PN16	100	360	160	200	50	100	70	265	212	12	260	24	50	85	47
50-250	DN65-PN16	DN50-PN16	100	360	180	225	65	125	95	320	250	12	260	24	50	85	54
50-315	DN80-PN16	DN50-PN16	100	470	225	280	80	160	120	360	280	12	330	32	80	100	103
65-160	DN80-PN16	DN65-PN16	100	360	160	200	65	125	95	280	212	12	260	24	50	100	44
65-200	DN80-PN16	DN65-PN16	100	360	180	225	65	125	95	320	250	12	260	24	50	100	48
65-250	DN80-PN16	DN65-PN16	100	470	200	250	80	160	120	360	280	16	340	32	80	100	78
65-315	DN80-PN16	DN65-PN16	125	470	225	280	80	160	120	400	315	16	340	32	80	110	92
65-400	DN100-PN16	DN65-PN16	125	470	250	355	80	160	120	400	315	16	340	32	80	110	125
80-160	DN100-PN16	DN80-PN16	125	360	180	225	65	125	95	320	250	12	260	24	50	110	51
80-200	DN100-PN16	DN80-PN16	100	470	180	250	65	125	95	345	280	12	340	32	80	110	76
80-250	DN100-PN16	DN80-PN16	125	470	200	280	80	160	120	400	315	16	340	32	80	115	93
80-315	DN100-PN16	DN80-PN16	125	470	250	315	80	160	120	400	315	16	340	32	80	120	107
80-400	DN100-PN16	DN80-PN16	125	530	280	355	100	200	150	500	400	20	370	42	110	120	162
100-160	DN125-PN16	DN100-PN16	125	360	200	280	80	160	120	360	280	16	260	24	50	120	
100-200	DN125-PN16	DN100-PN16	125	470	200	280	80	160	120	360	280	16	340	32	80	120	83
100-250	DN125-PN16	DN100-PN16	140	470	225	280	80	160	120	400	315	16	340	32	80	130	95
100-315	DN125-PN16	DN100-PN16	140	470	250	315	80	160	120	400	315	16	340	32	80	130	110
100-400	DN125-PN16	DN100-PN16	140	530	280	355	100	200	150	500	400	20	370	42	110	130	168
125-200	DN150-PN16	DN125-PN16	140	470	250	315	80	160	120	400	315	16	340	32	80	130	107

Model	DNs	DNd	a	f	h1	h2	b	m1	m2	n1	n2	s1	W	d	l	X	m [kg]
125-250	DN150-PN16	DN125-PN16	140	470	250	355	80	160	120	400	315	16	340	32	80	140	106
125-315	DN150-PN16	DN125-PN16	140	530	280	355	100	200	150	500	400	20	370	42	110	140	167
125-400	DN150-PN16	DN125-PN16	140	530	315	400	100	200	150	500	400	20	370	42	110	140	189
150-200	DN200-PN16	DN150-PN16	160	470	280	355	100	200	150	500	400	16	340	32	80	170	138
150-250	DN200-PN16	DN150-PN16	160	470	280	375	100	200	150	500	400	16	340	32	80	140	138
150-315	DN200-PN16	DN150-PN16	160	530	280	400	100	200	150	550	450	20	370	42	110	140	183
150-400	DN200-PN16	DN150-PN16	160	530	315	450	100	200	150	550	450	20	370	42	110	140	211
150-500	DN200-PN16	DN150-PN16	180	700	400	525	110	250	200	620	500	20	500	55	110	140	380
200-315	DN250-PN10	DN200-PN10	240	725	400	525	140	300	240	620	500	24	500	55	110	200	419
200-400	DN250-PN10	DN200-PN10	225	865	400	550	140	300	240	620	500	24	600	65	140	200	510
200-500	DN250-PN10	DN200-PN16	280	875	500	700	150	360	290	900	750	28	560	65	140	320	615

4.2 General dimensions DPNT 2 pole with motor and base plate

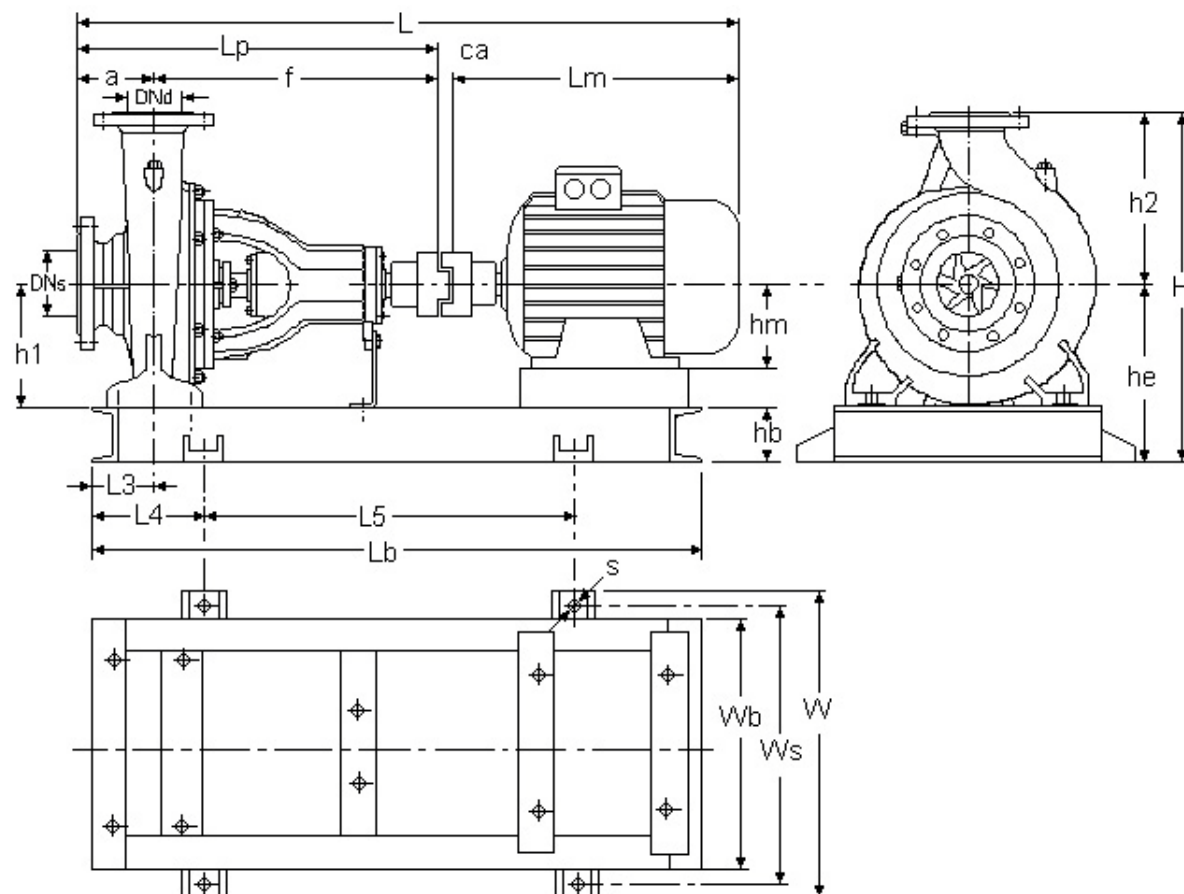


Figure 2: Dimension with motor and base plate 2 pole version

Table 6: Dimensions DPNT 2 pole [mm]

Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
32-160	174	440,5	132	440	19	899,5	380	357	850	280	65	197	50	150	550	330	19
32-160	163	395,5	112	440	19	854,5	360	357	800	260	65	197	50	100	600	310	19
32-160	146	352	100	440	16	808	360	357	800	260	65	197	50	100	600	310	19
32-160	135	316,5	90	440	16	772,5	360	357	750	260	65	197	50	100	550	310	19
32-160	123	316,5	90	440	16	772,5	360	357	750	260	65	197	50	100	550	310	19
32-200	218	576	160	440	19	1035	440	420	950	340	80	240	50	150	650	390	19
32-200	210	475,5	132	440	19	934,5	380	405	850	280	65	225	50	150	550	330	19
32-200	183	440,5	132	440	19	899,5	380	405	850	280	65	225	50	150	550	330	19
32-200	166	395,5	112	440	19	854,5	360	405	800	260	65	225	50	100	600	310	19
32-250	260	576	160	460	27	1063	440	485	1000	340	80	260	63	150	700	390	19
32-250	235	576	160	460	19	1055	440	485	1000	340	80	260	63	150	700	390	19
32-250	213	475,5	132	460	19	954,5	440	485	850	340	80	260	63	150	550	390	19
40-160	174	475,5	132	440	19	934,5	380	357	850	280	65	197	50	150	550	330	19
40-160	164	440,5	132	440	19	899,5	380	357	850	280	65	197	50	150	550	330	19
40-160	153	395,5	112	440	19	854,5	360	357	800	260	65	197	50	100	600	310	19
40-160	136	352	100	440	17	809	360	357	800	260	65	197	50	100	600	310	19
40-200	218	576	160	460	27	1063	440	420	1000	340	80	240	50	150	700	390	19
40-200	208	576	160	460	19	1055	440	420	950	340	80	240	50	150	650	390	19
40-200	178	475,5	132	460	19	954,5	380	405	850	280	65	225	50	150	550	330	19

Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
40-200	168	440,5	132	460	19	919,5	380	405	850	280	65	225	50	150	550	330	19
40-250	268	665	200	460	32	1157	520	525	1100	420	100	300	63	150	800	470	19
40-250	258	629	180	460	27	1116	480	505	1050	380	100	280	63	150	750	430	19
40-250	251	576	160	460	27	1063	440	485	1050	340	80	260	63	150	750	390	19
40-250	231	576	160	460	27	1063	440	485	1000	340	80	260	63	150	700	390	19
50-160	174	576	160	460	19	1055	440	420	950	340	80	240	50	150	650	390	19
50-160	157	475,5	132	460	19	954,5	380	405	850	280	65	225	50	150	550	330	19
50-160	144	440,5	132	460	19	919,5	380	405	850	280	65	225	50	150	550	330	19
50-160	132	395,5	112	460	19	874,5	380	405	800	280	65	225	50	100	700	330	19
50-200	218	629	180	460	27	1116	480	480	1000	380	100	280	50	150	700	430	19
50-200	210	576	160	460	27	1063	440	440	1000	340	80	240	50	150	700	390	19
50-200	200	576	160	460	27	1063	440	440	1000	340	80	240	50	150	700	390	19
50-200	188	576	160	460	19	1055	440	440	950	340	80	240	50	150	650	390	19
50-200	172	475,5	132	460	19	954,5	380	425	850	280	65	225	50	150	550	330	19
50-250	268	735	225	460	34	1229	550	450	1150	450	100	225	63	150	850	500	19
50-250	258	665	200	460	32	1157	520	425	1150	420	100	200	63	150	800	470	19
50-250	234	665	200	460	32	1157	520	425	1150	420	100	200	63	150	800	470	19
50-250	210	629	180	460	27	1116	480	405	1050	380	100	180	63	150	850	430	19
50-315	310	886	280	570	34	1571	620	650	1370	500	120	370	80	200	950	560	24
50-315	285	735	225	570	32	1402	600	625	1300	480	120	345	80	200	900	540	24
50-315	263	665	200	570	27	1347	520	605	1250	420	100	325	80	150	950	430	19
65-160	174	576	160	460	27	1063	440	440	1050	340	80	240	63	150	750	390	19
65-160	170	576	160	460	27	1063	440	440	1000	340	80	240	63	150	700	390	19
65-160	157	576	160	460	19	1055	440	440	1000	340	80	240	63	150	700	390	19
65-160	139	475,5	132	460	19	954,5	400	425	850	300	65	225	63	150	550	350	19
65-160	128	440,5	132	460	19	919,5	400	425	850	300	65	225	63	150	550	350	19
65-200	218	665	200	460	32	1157	520	525	1100	420	100	300	63	150	800	470	19
65-200	208	665	200	460	32	1157	520	525	1100	420	100	300	63	150	800	470	19
65-200	193	629	180	460	27	1116	480	505	1050	380	100	280	63	150	750	430	19
65-200	179	576	160	460	27	1063	440	485	1050	340	80	260	63	150	750	390	19
65-250	268	886	250	570	34	1490	620	620	1400	500	120	370	80	200	1000	560	24
65-250	252	735	225	570	34	1339	600	595	1300	480	120	345	80	200	900	540	24
65-250	236	665	200	570	32	1267	520	550	1250	420	100	300	80	200	850	470	19
65-250	220	665	200	570	32	1267	520	550	1250	420	100	300	80	200	850	470	19
65-250	204	629	180	570	27	1226	480	550	1150	380	100	300	80	150	850	430	19
65-315	307	958	280	595	43	1596	720	700	1500	600	140	420	80	200	1050	660	24
65-315	290	907	280	595	43	1545	720	700	1450	600	140	420	80	200	1050	660	24
65-315	260	886	250	595	34	1515	620	650	1350	500	120	370	80	200	950	560	24
80-160	174	629	180	485	27	1141	480	505	1050	380	100	280	63	150	750	430	19
80-160	169	576	160	485	27	1088	440	485	1050	340	80	260	63	150	750	390	19
80-160	162	576	160	485	27	1088	440	485	1000	340	80	260	63	150	700	390	19
80-160	144	576	160	485	19	1080	440	485	1000	340	80	260	63	150	700	390	19
80-160	130	475,5	132	485	19	979,5	440	485	850	340	80	260	63	100	650	390	19
80-200	218	886	250	595	34	1515	600	620	1350	500	120	370	63	200	950	550	24
80-200	208	735	225	595	34	1364	580	595	1250	480	120	345	63	200	850	530	24
80-200	197	665	200	595	32	1292	520	550	1250	420	100	300	63	200	850	470	19
80-200	183	665	200	665	32	1292	520	550	1250	420	100	300	63	200	850	470	19
80-200	170	629	180	595	27	1251	480	530	1150	380	100	280	63	150	850	430	19
80-250	268	958	280	595	43	1596	700	700	1500	600	140	420	80	200	1100	650	24
80-250	250	907	280	595	43	1545	700	700	1450	600	140	420	80	200	1050	650	24
80-250	229	886	250	595	34	1515	600	650	1400	500	120	370	80	200	1000	550	24
80-250	218	735	225	595	34	1364	580	625	1300	480	120	345	80	200	900	530	24
80-315	310	1120	315	595	43	1758	770	790	1550	650	160	475	80	200	1150	710	24
80-315	297	1120	315	595	43	1758	770	790	1550	650	160	475	80	200	1150	710	24
80-315	280	1068	315	595	43	1706	770	790	1450	650	160	475	80	200	1050	650	24



Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
80-315	265	958	280	595	43	1596	720	735	1500	600	140	420	80	200	1100	660	24
100-160	174	665	200	485	32	1182	520	580	1150	420	100	300	80	150	850	470	19
100-160	169	665	200	485	32	1182	520	580	1150	420	100	300	80	150	850	470	19
100-160	159	629	180	485	27	1141	480	580	1050	380	100	300	80	150	750	430	19
100-160	152	576	160	485	27	1088	480	580	1000	380	100	300	80	150	700	430	19
100-160	145	576	160	485	19	1080	480	580	1000	380	100	300	80	150	700	430	19
100-200	218	907	280	595	43	1545	720	700	1450	600	140	420	80	200	1050	660	24
100-200	210	886	250	595	34	1515	620	650	1400	500	120	370	80	200	1000	560	24
100-200	198	735	225	595	34	1364	600	625	1300	480	120	345	80	200	900	540	24
100-200	190	665	200	595	27	1287	520	580	1250	420	100	300	80	200	850	430	19
100-200	180	665	200	595	27	1287	520	580	1250	420	100	300	80	200	850	430	19
100-250	268	1068	315	610	43	1721	770	755	1500	650	160	475	80	200	1100	710	24
100-250	250	958	280	610	43	1611	720	700	1500	600	140	420	80	200	1100	660	24
100-250	234	907	280	610	43	1560	720	700	1450	600	140	420	80	200	1050	660	24
100-250	213	886	250	610	34	1530	620	650	1400	500	120	370	80	200	1000	560	24

4.3 General dimensions DPNT 4 pole with motor and base plate

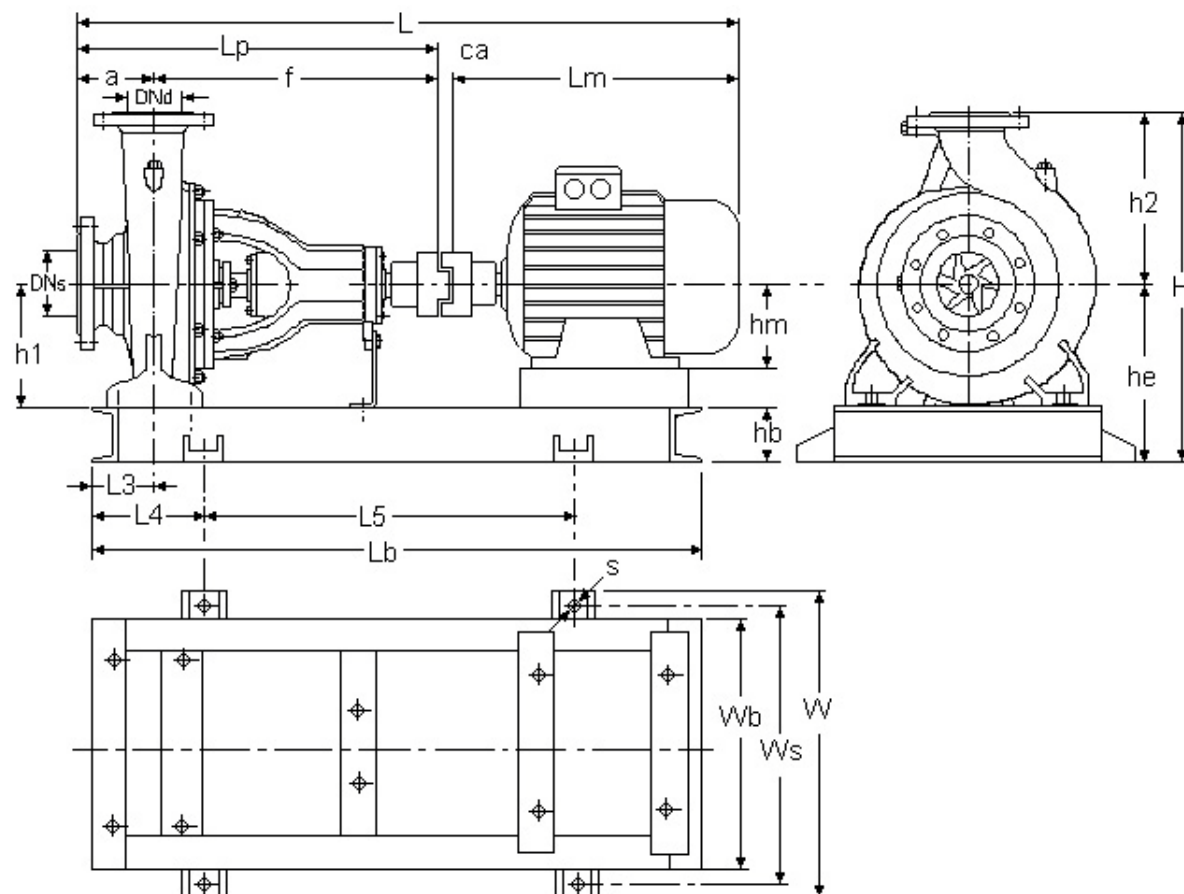


Figure 3: Dimension with motor and base plate

Table 7: Dimensions [mm]

Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
32-160	174	283,5	80	440	16	739,5	360	357	700	260	65	197	50	100	500	310	19
32-160	168	283,5	80	440	16	739,5	360	357	700	260	65	197	50	100	500	310	19
32-160	148	252,5	71	440	16	708,5	360	357	700	260	65	197	50	100	500	310	19
32-160	135	252,5	71	440	16	708,5	360	357	700	260	65	197	50	100	500	310	19
32-200	218	316,5	90	440	16	772,5	360	405	750	260	65	225	50	100	550	310	19
32-200	212	316,5	90	440	16	772,5	360	405	750	260	65	225	50	100	550	310	19
32-200	195	283,5	80	440	16	739,5	360	405	700	260	65	225	50	100	500	310	19
32-200	175	283,5	80	440	16	739,5	360	405	700	260	65	225	50	100	500	310	19
32-200	158	252,5	71	440	16	708,5	360	405	700	260	65	225	50	100	500	310	19
32-250	268	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
32-250	252	316,5	90	460	17	793,5	440	485	750	340	80	260	63	100	550	390	19
32-250	230	316,5	90	460	17	793,5	440	485	750	340	80	260	63	100	550	390	19
32-250	205	283,5	80	460	16	759,5	440	485	700	340	80	260	63	100	550	390	19
40-160	174	283,5	80	440	16	739,5	360	357	700	260	65	197	50	100	500	310	19
40-160	159	283,5	80	440	16	739,5	360	357	700	260	65	197	50	100	500	310	19
40-160	140	252,5	71	440	16	708,5	360	357	700	260	65	197	50	100	500	310	19
40-160	120	252,5	71	440	16	708,5	360	357	700	260	65	197	50	100	500	310	19
40-200	218	316,5	90	460	17	793,5	380	405	750	280	65	225	50	100	550	330	19
40-200	200	316,5	90	460	17	793,5	380	405	750	280	65	225	50	100	550	330	19

Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
40-200	172	283,5	80	460	16	759,5	380	405	700	280	65	225	50	100	500	330	19
40-250	268	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
40-250	245	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
40-250	217	316,5	90	460	17	793,5	440	485	750	340	80	260	63	100	550	390	19
50-160	174	316,5	90	460	17	793,5	380	405	750	280	65	225	50	100	550	330	19
50-160	165	316,5	90	460	17	793,5	380	405	750	280	65	225	50	100	550	330	19
50-160	148	283,5	80	460	16	759,5	380	405	700	280	65	225	50	100	500	330	19
50-200	218	352	100	460	19	831	380	425	800	280	65	225	50	100	600	330	19
50-200	194	316,5	90	460	17	793,5	380	425	750	280	65	225	50	100	550	330	19
50-200	180	316,5	90	460	17	793,5	380	425	750	280	65	225	50	100	550	330	19
50-250	268	475,5	132	460	19	954,5	440	485	850	340	80	260	63	150	550	390	19
50-250	247	395,5	112	460	19	874,5	440	485	800	340	80	260	63	100	600	390	19
50-250	220	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
50-250	203	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
50-315	346	576	160	570	27	1173	480	605	1100	380	100	325	80	150	800	430	19
50-315	313	475,5	132	570	27	1072,5	480	605	1050	380	100	325	80	150	750	430	19
50-315	285	475,5	132	570	19	1064,5	480	605	1000	380	100	325	80	150	700	430	19
50-315	263	395,5	112	570	19	984,5	480	605	950	380	100	325	80	150	650	430	19
65-160	174	352	100	460	19	831	400	425	800	300	65	225	63	100	600	350	19
65-160	164	316,5	90	460	17	793,5	400	425	750	300	65	225	63	100	550	350	19
65-160	146	316,5	90	460	17	793,5	400	425	750	300	65	225	63	100	550	350	19
65-160	135	283,5	80	460	16	759,5	400	425	700	300	65	225	63	100	500	350	19
65-200	218	395,5	112	460	19	874,5	440	485	800	340	80	260	63	100	600	390	19
65-200	200	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
65-200	180	352	100	460	19	831	440	485	800	340	80	260	63	100	600	390	19
65-250	268	475,5	132	570	27	1072,5	480	550	1050	380	100	300	80	150	750	430	19
65-250	253	475,5	132	570	19	1064,5	480	550	1000	380	100	300	80	150	700	430	19
65-250	235	395,5	112	570	19	984,5	480	550	950	380	100	300	80	150	650	430	19
65-250	212	352	100	570	19	941	480	550	950	380	100	300	80	150	650	430	19
65-315	328	576	160	595	32	1203	520	605	1150	420	100	325	80	150	850	470	19
65-315	302	576	160	595	27	1198	520	605	1100	420	100	325	80	150	800	470	19
65-315	260	475,5	132	595	27	1097,5	520	605	1050	420	100	325	80	150	750	470	19
65-400	413	665	200	595	34	1294	520	705	1250	420	100	350	80	200	850	470	19
65-400	392	629	180	595	34	1258	520	705	1200	420	100	350	80	200	800	470	19
65-400	370	629	180	595	32	1256	520	705	1150	420	100	350	80	150	850	470	19
65-400	345	576	160	595	32	1203	520	705	1150	420	100	350	80	150	850	470	19
65-400	315	576	160	595	19	1190	520	705	1150	420	100	350	80	150	850	470	19
80-160	174	352	100	485	19	856	440	485	800	340	80	260	63	100	600	390	19
80-160	168	352	100	485	19	856	440	485	800	340	80	260	63	100	600	390	19
80-160	155	316,5	90	485	17	818,5	440	485	750	340	80	260	63	100	550	390	19
80-160	142	316,5	90	485	17	818,5	440	485	750	340	80	260	63	100	550	390	19
80-200	218	475,5	132	595	27	1097,5	460	510	1000	360	80	260	63	150	700	410	19
80-200	212	475,5	132	595	19	1089,5	460	510	950	360	80	260	63	150	650	410	19
80-200	193	395,5	112	595	19	1009,5	460	510	950	360	80	260	63	150	650	410	19
80-200	177	352	100	595	19	966	460	510	900	360	80	260	63	150	600	410	19
80-250	268	576	160	595	32	1203	520	580	1150	420	100	300	80	150	850	470	19
80-250	260	576	160	595	27	1198	520	580	1100	420	100	300	80	150	800	470	19
80-250	237	475,5	132	595	27	1097,5	520	580	1050	420	100	300	80	150	750	470	19
80-250	220	475,5	132	595	19	1089,5	520	580	1000	420	100	300	80	150	700	470	19
80-315	328	629	180	595	34	1258	520	665	1200	420	100	350	80	200	800	470	19
80-315	308	629	180	595	32	1256	520	665	1150	420	100	350	80	150	850	470	19
80-315	290	576	160	595	32	1203	520	665	1200	420	100	350	80	200	800	470	19
80-315	265	576	160	595	27	1198	520	665	1100	420	100	350	80	150	800	470	19
80-400	428	765	225	655	43	1463	640	775	1450	520	140	420	100	200	1050	580	24

Model	Impeller	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
80-400	408	765	225	655	43	1463	640	775	1350	520	140	420	100	200	950	580	24
80-400	388	665	200	655	34	1354	640	775	1350	520	140	420	100	200	950	580	24
80-400	355	629	180	655	34	1318	640	775	1300	520	140	420	100	200	900	580	24
80-400	333	629	180	655	32	1316	640	775	130	520	140	420	100	200	900	580	24
100-160	174	395,5	112	485	19	899,5	480	580	850	380	100	300	80	150	550	430	19
100-160	165	352	100	485	19	856	480	580	850	380	100	300	80	150	550	430	19
100-160	150	316,5	90	485	19	820,5	480	580	800	380	100	300	80	100	600	430	19
100-160	174	316,5	90	485	19	820,5	480	580	750	380	100	300	80	100	550	430	19
100-200	218	475,5	132	595	27	1097,5	480	580	1050	380	100	300	80	150	750	430	19
100-200	203	475,5	132	595	19	1089,5	480	580	1000	380	100	300	80	150	700	430	19
100-200	183	395,5	112	595	19	1009,5	480	580	950	380	100	300	80	150	650	430	19
100-200	168	352	100	595	19	966	480	580	950	380	100	300	80	150	650	430	19
100-250	268	629	180	610	32	1271	520	605	1170	420	100	325	80	150	850	470	19
100-250	264	576	160	610	32	1218	520	605	1150	420	100	325	80	150	850	470	19
100-250	244	576	160	610	27	1213	520	605	1100	420	100	325	80	150	800	470	19
100-250	220	475,5	132	610	27	1112,5	520	605	1050	420	100	325	80	150	750	470	19
100-250	200	475,5	132	610	19	1104,5	520	605	1000	420	100	325	80	150	700	470	19
100-315	328	765	225	610	43	1418	600	685	1300	480	120	370	80	200	900	540	24
100-315	320	665	200	610	34	1309	520	665	1250	420	100	350	80	200	850	470	19
100-315	300	629	180	610	34	1273	520	665	1200	420	100	350	80	150	900	470	19
100-315	285	629	180	610	32	1271	520	665	1150	420	100	350	80	150	850	470	19
100-315	263	576	160	610	32	1218	520	665	1150	420	100	350	80	150	850	470	19
100-400	428	886	250	670	43	1599	640	775	1450	520	140	420	100	200	1050	580	24
100-400	413	765	225	670	43	1478	640	775	1400	520	140	420	100	200	1000	580	24
100-400	392	765	225	670	43	1478	640	775	1400	520	140	420	100	200	950	580	24
100-400	366	665	200	670	34	1369	640	775	1350	520	140	420	100	200	950	580	24
100-400	320	629	180	670	34	1333	640	775	1300	520	140	420	100	200	900	580	24
125-200	218	576	160	610	32	1218	520	665	1150	420	100	350	80	150	850	470	19
125-200	215	576	160	610	27	1213	520	665	1150	420	100	350	80	150	800	470	19
125-200	200	475,5	132	610	27	1112,5	520	665	1050	420	100	350	80	150	750	470	19
125-200	180	475,5	132	610	19	1104,5	520	665	1000	420	100	350	80	150	700	470	19
125-250	268	665	200	610	34	1309	520	705	1250	420	100	350	80	200	850	470	19
125-250	260	629	180	610	34	1273	520	705	1200	420	100	350	80	150	900	470	19
125-250	250	629	180	610	32	1271	520	705	1170	420	100	350	80	150	850	470	19
125-250	230	576	160	610	32	1218	520	705	1150	420	100	350	80	150	850	470	19
125-250	207	576	160	610	27	1213	520	705	1150	420	100	350	80	150	850	470	19
125-315	328	765	225	670	43	1478	640	775	1400	520	140	420	100	200	1000	580	24
125-315	319	765	225	670	43	1478	640	775	1350	520	140	420	100	200	950	580	24
125-315	300	665	200	670	34	1369	640	775	1350	520	140	420	100	200	950	580	24
125-315	270	629	180	670	34	1333	640	775	1300	520	140	420	100	200	850	580	24
125-315	253	629	180	670	32	1331	640	775	1250	520	140	420	100	200	850	580	24
125-400	428	958	280	670	46	1674	720	855	1550	600	140	455	100	200	1150	660	24
125-400	414	907	280	670	46	1623	720	855	1550	600	140	455	100	200	1100	660	24
125-400	375	886	250	670	43	1599	640	855	1450	520	140	455	100	200	1050	580	24
125-400	355	765	225	670	43	1478	640	855	1400	520	140	455	100	200	1000	580	24
125-400	335	765	225	670	43	1478	640	855	1350	520	140	455	100	200	950	580	24
150-200	218	576	160	630	27	1238	640	775	1200	520	140	420	100	150	900	580	24
150-200	268	576	160	630	27	1233	640	775	1150	520	140	420	100	150	850	580	24
150-200	268	475,5	132	630	27	1132,5	640	775	1050	520	140	420	100	150	750	580	24
150-250	268	665	200	630	34	1329	640	795	1300	520	140	420	100	200	900	580	24
150-250	246	629	180	630	34	1293	640	795	1250	520	140	420	100	200	850	580	24
150-250	235	629	180	630	32	1291	640	795	1200	520	140	420	100	150	900	580	24
150-250	218	576	160	630	32	1238	640	795	1200	520	140	420	100	150	900	580	24
150-315	328	886	250	690	43	1619	720	820	1450	600	140	420	100	200	1050	660	24



Model	Impel- ler	Lm	Hm	Lp	Ca	L	W	H	Lb	Wb	Hb	He	L3	L4	L5	Ws	S
150-315	304	765	225	690	43	1498	720	820	1400	600	140	420	100	200	1000	660	24
150-315	290	765	225	690	43	1498	720	820	1370	600	140	420	100	200	950	660	24
150-315	275	665	200	690	34	1389	720	820	1350	600	140	420	100	200	950	660	24
150-315	255	629	180	690	34	1353	720	820	1300	600	140	420	100	200	900	660	24
150-400	428	958	280	690	46	1694	720	905	1550	600	140	455	100	200	1150	660	24
150-400	404	907	280	690	46	1643	720	905	1530	600	140	455	100	200	1100	660	24
150-400	370	886	250	690	43	1619	720	905	1450	600	140	455	100	200	1050	660	24
150-400	350	765	225	690	43	1498	720	905	1400	600	140	455	100	200	1000	660	24
150-400	325	765	225	690	43	1498	720	905	1400	600	140	455	100	200	1000	660	24
150-500	528	1150	315	880	43	2073	770	1085	1850	650	160	560	125	300	1300	710	24
150-500	492	1150	315	880	43	2073	770	1085	1850	650	160	560	125	300	1300	710	24
150-500	462	1098	315	880	43	2021	770	1085	1850	650	160	560	125	300	1250	710	24
150-500	435	958	280	880	46	1884	770	1085	1800	650	160	560	125	300	1200	710	24
200-315	328	907	280	715	46	1668	770	965	1600	650	160	515	125	200	1200	710	24
200-315	325	886	250	715	43	1644	770	965	1500	650	160	515	125	200	1100	710	24
200-315	297	765	225	715	43	1523	770	965	1450	650	160	515	125	200	1050	710	24
200-315	280	765	225	715	43	1523	770	965	1450	650	160	515	125	200	1050	720	24
200-400	428	1220	315	890	43	2153	770	1060	1950	650	160	560	125	300	1350	710	24
200-400	409	1150	315	890	43	2083	770	1060	1900	650	160	560	125	300	1300	710	24
200-400	387	1150	315	890	43	2083	770	1060	1900	650	160	560	125	300	1300	710	24
200-400	370	1098	315	890	43	2031	770	1060	1850	650	160	560	125	300	1250	710	24
200-400	348	958	280	890	46	1894	770	1060	1800	650	160	560	125	300	1200	710	24
200-400	330	907	280	890	46	1843	770	1060	1800	650	160	560	125	300	1200	710	24
200-400	300	886	250	890	43	1819	770	1060	1700	650	160	560	125	300	1100	710	24
200-500	530	1370	355	1060	43	2473	920	1130	2300	800	160	580	150	300	1750	860	24
200-500	516	1370	355	1060	43	2473	920	1130	2300	800	160	580	150	300	1750	860	24
200-500	492	1220	315	1060	43	2323	870	1110	2150	750	160	560	150	300	1600	810	24
200-500	480	1220	315	1060	43	2323	870	1110	2150	750	160	560	150	300	1600	810	24
250-500	463	1150	315	1060	43	2253	870	1110	2100	750	160	560	150	300	1550	810	24
250-500	453	1150	315	1060	43	2253	870	1110	2050	750	160	560	150	300	1450	810	24
250-500	427	1098	315	1060	43	2201	870	1110	2050	750	160	560	150	300	1450	810	24

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