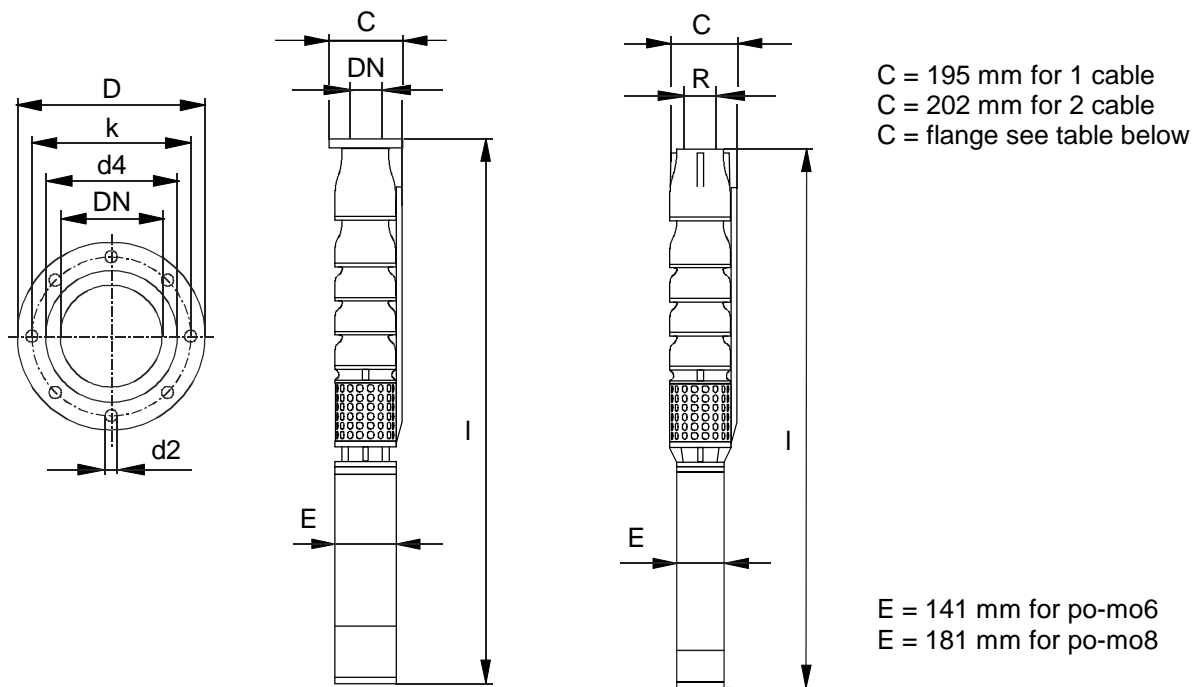


Specification

- multistage centrifugal pump in structured design coupled with **oddesse** submersible motor
- discharge end with integrated non-return valve
- driven by three-phase AC motors
- minimal water level above the pump unit 2 m
- min. cooling flow 0.5 m/s, max. ambient temperature 30 °C (higher temperature on request)
- pure, clean water with content of solid up to 50 mg/l
- standard connection:
 - po-so-40/8.2 R = G3 or flange DN80 PN40
 - po-so-63/8.2 R = G4 or flange DN100 PN40
 - po-so-100/8.2 R = G5 or flange DN125 PN40
 - po-so-140/8.2 R = G5 or flange DN125 PN40
- pipe thread according to DIN ISO 228 part 1 / other connections on request
- hydraulic performance tests for acceptance according to DIN EN ISO 9906 class 2
- special design (Horizontal installation, etc.) on request

Main dimensions

Dimensions of adapters



Type	reduction thread	adapters						
		flange	dimensions					
			D [mm]	b [mm]	k [mm]	d4 [mm]	d2 [mm]	m [kg]
po-so-40/8.2	G4	DN80, PN16	200	20	160	138	8x ø18	4.7
		DN80, PN40	200	24	160	138	8x ø18	5.7
po-so-63/8.2	G5	DN100, PN16	220	20	180	158	8x ø18	6.1
po-so-100/8.2	G6	DN100, PN40	235	24	190	162	8x ø22	8.0
po-so-140/8.2		DN125, PN16	250	22	210	188	8x ø18	8.2
		DN125, PN40	270	26	220	188	8x ø26	11.0
		DN150, PN16	285	22	240	212	8x ø22	18.0

Flange dimensions according to DIN 2633 (PN16) and DIN 2635 (PN40)

Material: zinc-coated or stainless steel

PN nominal pressure [bar], DN nominal diameter [mm], b thickness of flange [mm], m weight [kg]

Flanges with 2 cable recesses

subject to alterations

Material of construction

Submersible motor pumps po-so/8.2

According to DIN

components	design		
	standard-version	L-version	B-version
impeller	grey cast iron GG25 / 0.6025	bronze CuSn10 / 2.1050	
stage casing	grey cast iron GG25 / 0.6025	bronze CuSn10 / 2.1050	
suction casing	grey cast iron GG25 / 0.6025	bronze CuSn10 / 2.1050	
outlet branch	grey cast iron GG25 / 0.6025	bronze CuSn10 / 2.1050	
radial bearing	rubber / stainless steel		
suction strainer	stainless steel / 1.4301		
coupling	stainless steel / 1.4313		
shaft	stainless steel / 1.4313		
screws, nuts and bolts	stainless steel A2 1.4301 / 1.4303		
motor	see chapter submersible motors		

According to AISI

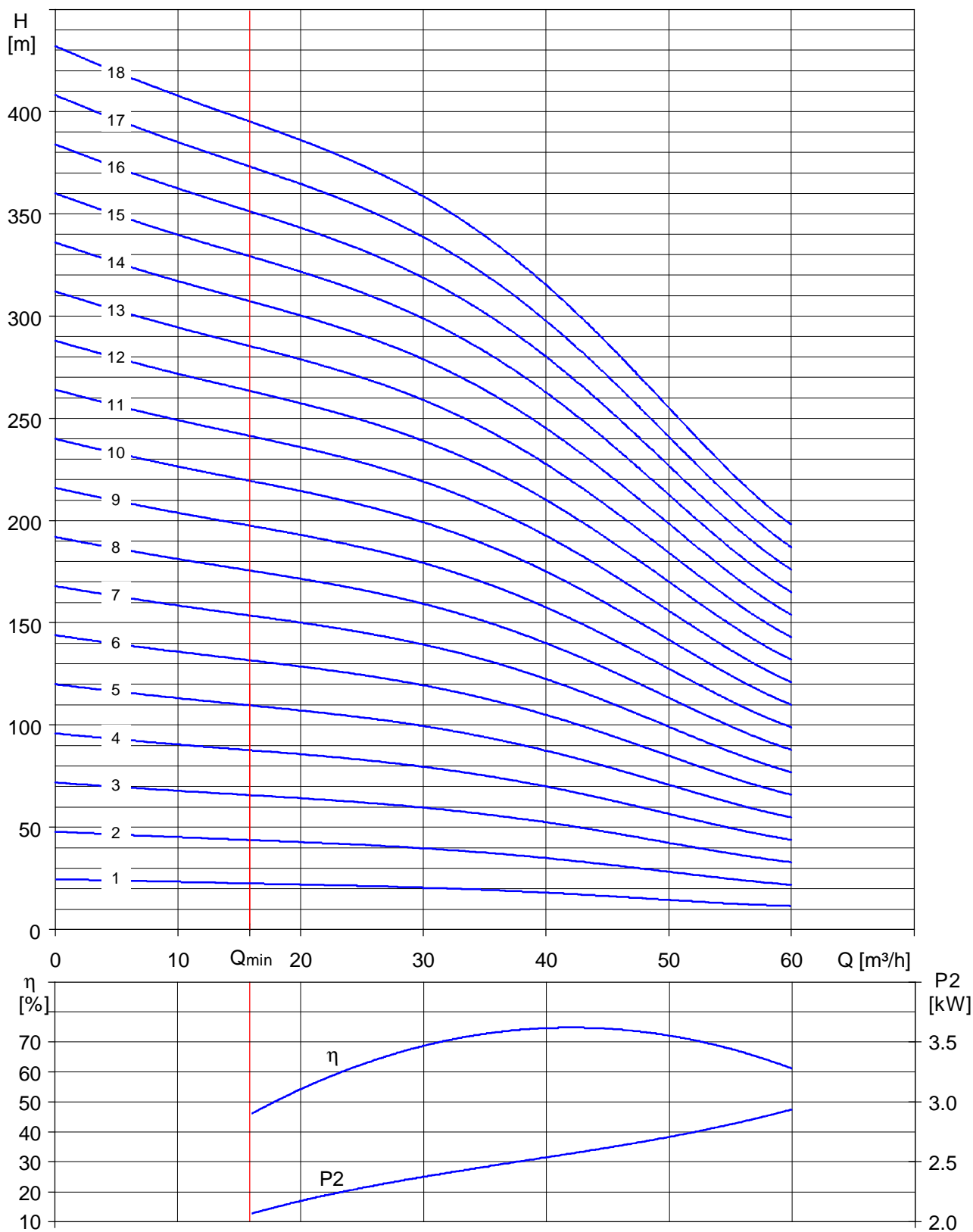
components	design		
	standard-version	L-version	B-version
impeller	grey cast iron A48-40B	bronze B584 C90500	
stage casing	grey cast iron A48-40B	bronze B584 C90500	
suction casing	grey cast iron A48-40B	bronze B584 C90500	
outlet branch	grey cast iron A48-40B	bronze B584 C90500	
radial bearing	rubber / stainless steel		
suction strainer	stainless steel / AISI 304		
coupling	stainless steel / ASTM CA6-NM		
shaft	stainless steel / ASTM CA6-NM		
screws, nuts and bolts	stainless steel A2 AISI 304/305		
motor	see chapter submersible motors		

oddesse reserve the right to employ construction materials following German (DIN) standard

subject to alterations

po-so-40/8.2

2850 1/min - 50 Hz



subject to alterations

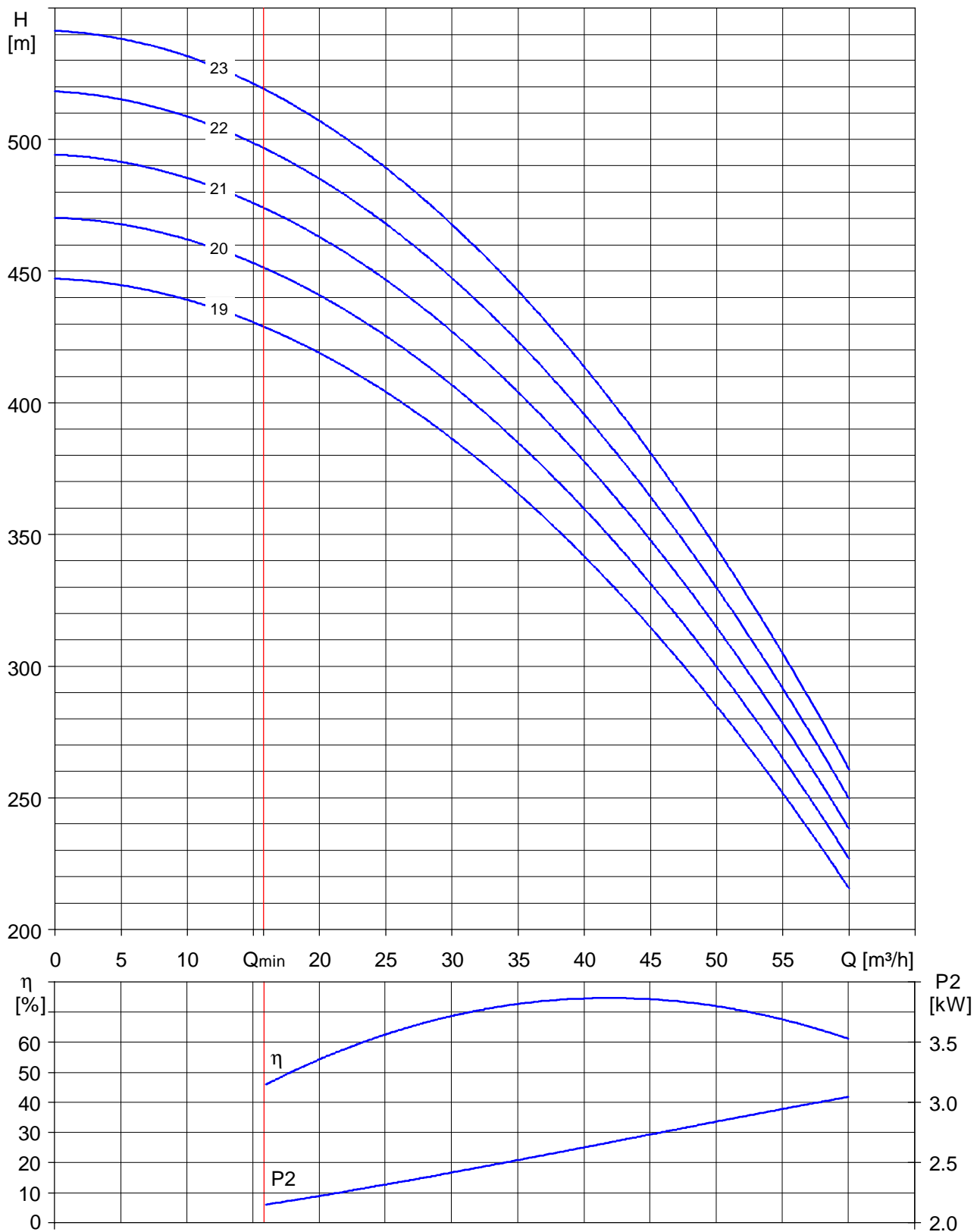
po-so-40/8.2
2850 1/min - 50 Hz

Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	4.4	6.1	7.8	9.4	11.1	12.5	13.9	16.7		
			[m³/h]	16	22	28	34	40	45	50	60		
po-so-40- 1/8.2	4*	10	Delivery head H [m]	22	21	21	19	18	16	14	11	1378	91
po-so-40- 2/8.2	7.5*	17		44	42	41	38	35	32	28	22	1553	109
po-so-40- 3/8.2	11*	24		66	63	62	57	53	48	43	33	1778	130
po-so-40- 4/8.2	13*	29		88	84	82	76	70	64	57	44	1913	144
po-so-40- 5/8.2	15*	32		110	105	103	95	88	80	71	55	2063	158
po-so-40- 6/8.2	18.5*	40		132	126	123	114	105	96	85	66	2228	175
po-so-40- 7/8.2	22	45		154	147	144	133	123	112	99	77	2316	217
po-so-40- 8/8.2	30	58		176	168	164	152	140	128	114	88	2511	241
po-so-40- 9/8.2	30	58		198	189	185	171	158	144	128	99	2611	251
po-so-40-10/8.2	30	58		220	210	205	190	175	160	142	110	2711	260
po-so-40-11/8.2	37	72		242	231	226	209	193	176	156	121	2896	284
po-so-40-12/8.2	37	72		264	252	246	228	210	192	170	132	2996	294
po-so-40-13/8.2	45	88		286	273	267	247	228	208	185	143	3176	316
po-so-40-14/8.2	45	88		308	294	287	266	245	224	199	154	3276	326
po-so-40-15/8.2	45	88		330	315	308	285	263	240	213	165	3376	335
po-so-40-16/8.2	55	108		352	336	328	304	280	256	227	176	3556	357
po-so-40-17/8.2	55	108		374	357	349	323	298	272	241	187	3656	367
po-so-40-18/8.2	55	108		396	378	369	342	315	288	256	198	3756	376

* 6 inch motor

Subject to alterations

po-so-40/8.2 2850 1/min - 50 Hz



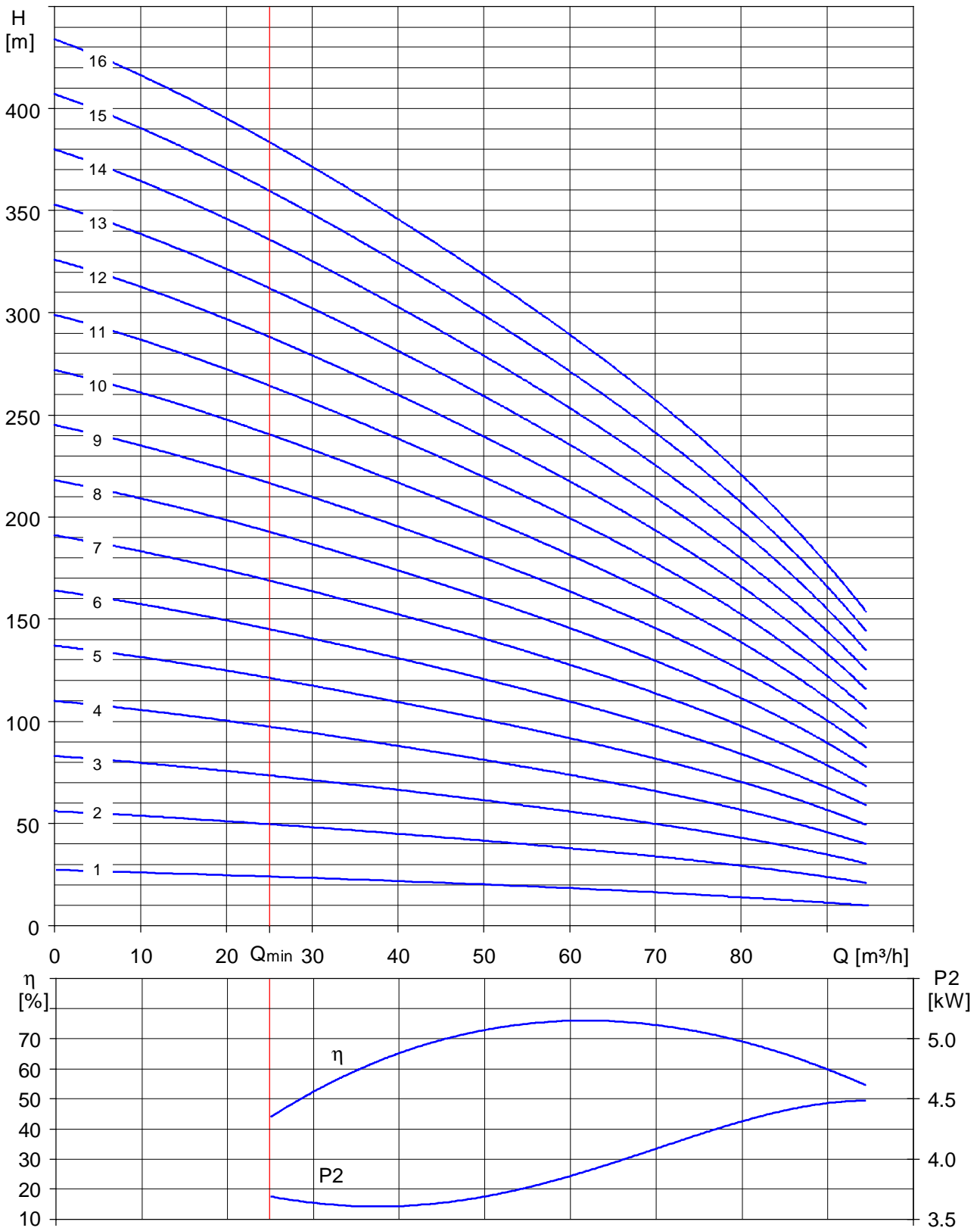
subject to alterations

po-so-40/8.2
2850 1/min - 50 Hz

Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	4.4	6.1	7.8	9.4	11.1	12.5	13.9	16.7		
			[m³/h]	16	22	28	34	40	45	50	60		
po-so-40-19/8.2	75	145	Delivery head H [m]	431	414	392	369	342	314	285	216	4036	425
po-so-40-20/8.2	75	145		454	436	413	389	360	330	300	228	4136	436
po-so-40-21/8.2	75	145		477	457	434	408	378	347	315	239	4236	448
po-so-40-22/8.2	75	145		499	479	454	427	396	363	330	250	4336	459
po-so-40-23/8.2	90	172		522	501	475	447	414	380	345	262	4496	481

subject to alterations

po-so-63/8.2
2850 1/min - 50 Hz



subject to alterations

po-so-63/8.2
2850 1/min - 50 Hz

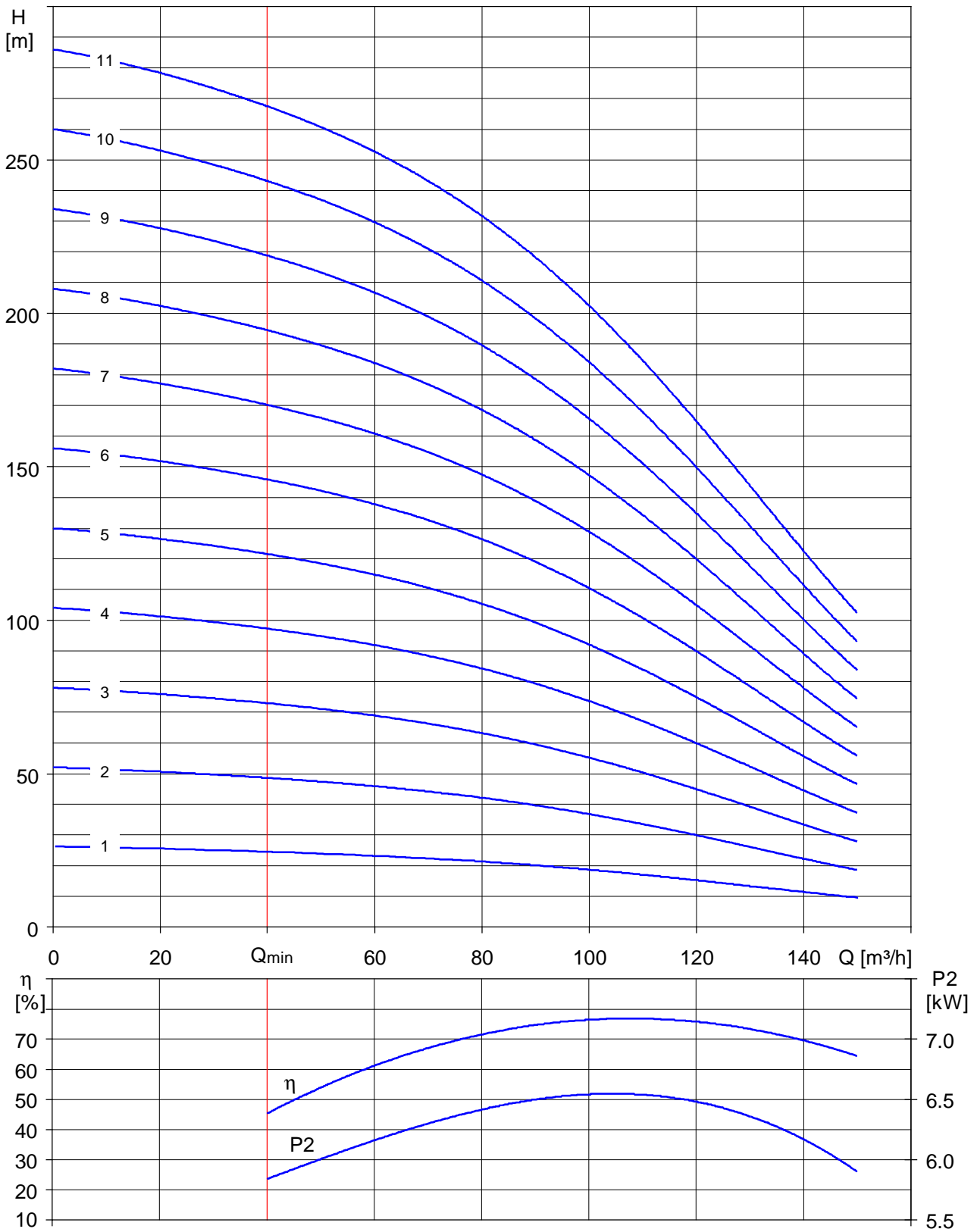
Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	6.9	11.1	13.9	15.3	17.5	19.4	22.2	26.2		
			[m³/h]	25	40	50	55	63	70	80	94.5		
po-so-63- 1/8.2	5.5*	12	Delivery head H [m]	24	22	20	19	18	16	14	10	1425	93
po-so-63- 2/8.2	11*	24		48	43	39	38	35	32	27	19	1690	117
po-so-63- 3/8.2	15*	32		71	65	59	57	53	48	41	29	1883	134
po-so-63- 4/8.2	18.5*	40		95	87	78	76	70	64	54	38	2056	149
po-so-63- 5/8.2	30	58		119	109	98	94	88	80	68	48	2247	204
po-so-63- 6/8.2	30	58		143	130	117	113	105	96	82	57	2355	212
po-so-63- 7/8.2	37	72		167	152	137	132	123	112	95	67	2548	234
po-so-63- 8/8.2	37	72		190	174	156	151	140	128	109	76	2656	242
po-so-63- 9/8.2	45	88		214	195	176	170	158	144	122	86	2844	263
po-so-63-10/8.2	55	108		238	217	195	189	175	160	136	95	3032	283
po-so-63-11/8.2	55	108		262	239	215	208	193	176	150	105	3140	291
po-so-63-12/8.2	55	108		286	260	234	227	210	192	163	114	3248	299
po-so-63-13/8.2	63	127		309	282	254	245	228	208	177	124	3436	320
po-so-63-14/8.2	63	127		333	304	273	264	245	224	190	133	3544	328
po-so-63-15/8.2	75	145		357	326	293	283	263	240	204	143	3752	352
po-so-63-16/8.2	75	145		381	347	312	302	280	256	218	152	3860	360

* 6 inch motor

Subject to alterations

po-so-100/8.2

2850 1/min - 50 Hz



subject to alterations

po-so-100/8.2
2850 1/min - 50 Hz

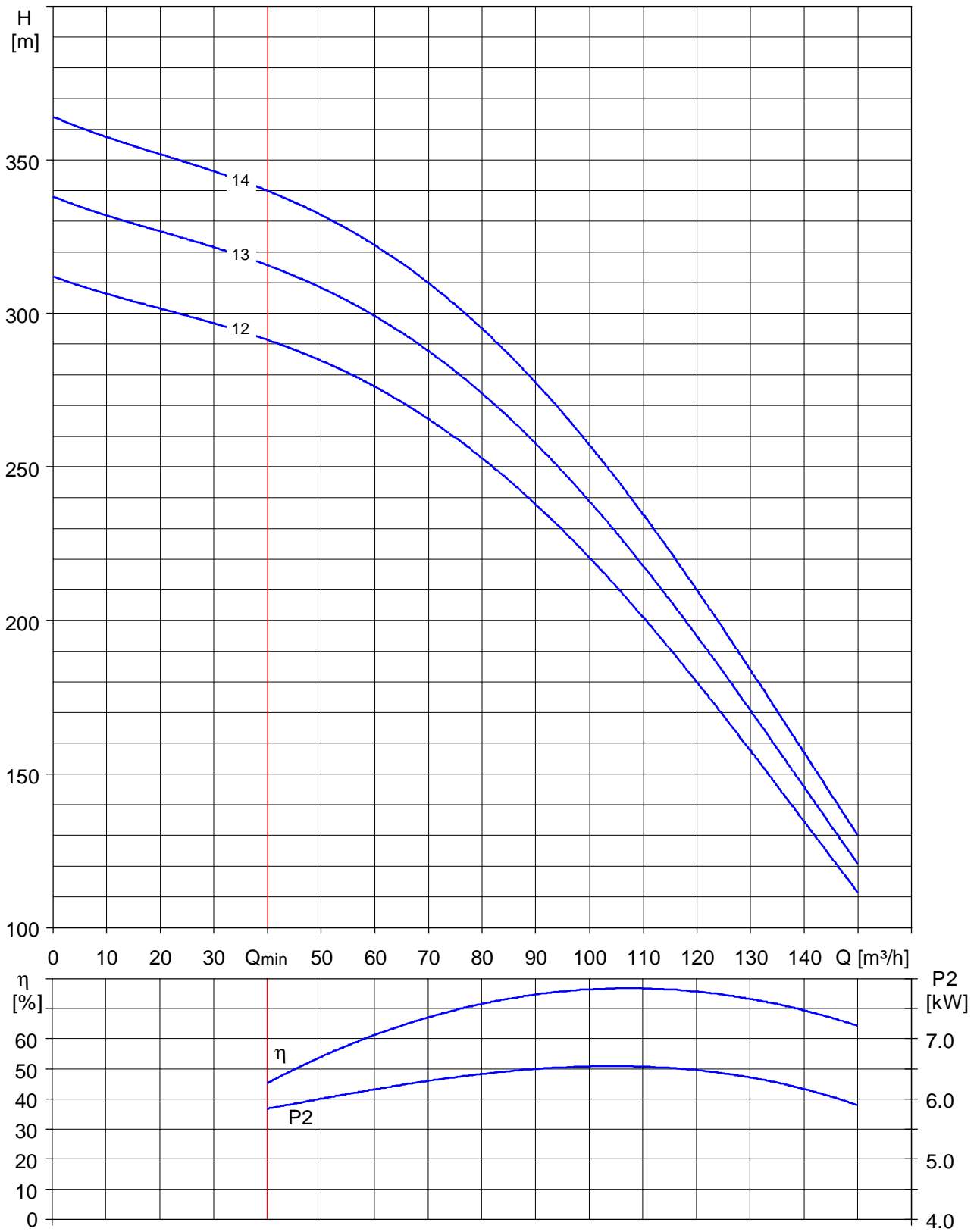
Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	11.1	16.7	22.2	27.8	30.6	33.3	36.1	41.7		
			[m³/h]	40	60	80	100	110	120	130	150		
po-so-100- 1/8.2	7.5*	17	Delivery head H [m]	24	23	21	19	17	15	13	9	1488	110
po-so-100- 2/8.2	15*	32		49	46	42	37	33	30	26	19	1843	144
po-so-100- 3/8.2	22	45		73	69	63	56	50	45	39	28	2041	195
po-so-100- 4/8.2	30	58		97	92	84	74	67	60	52	37	2281	223
po-so-100- 5/8.2	37	72		122	115	105	93	84	75	66	47	2511	249
po-so-100- 6/8.2	45	88		146	138	126	111	100	90	79	56	2736	274
po-so-100- 7/8.2	55	108		170	161	147	130	117	105	92	65	2961	299
po-so-100- 8/8.2	55	108		194	184	168	148	134	120	105	74	3106	311
po-so-100- 9/8.2	63	127		219	207	189	167	150	135	118	84	3331	337
po-so-100-10/8.2	75	145		243	230	210	185	167	150	131	93	3576	365
po-so-100-11/8.2	75	145		267	253	231	204	184	165	144	102	3721	377

* 6 inch motor

Subject to alterations

po-so-100/8.2

2850 1/min - 50 Hz



subject to alterations

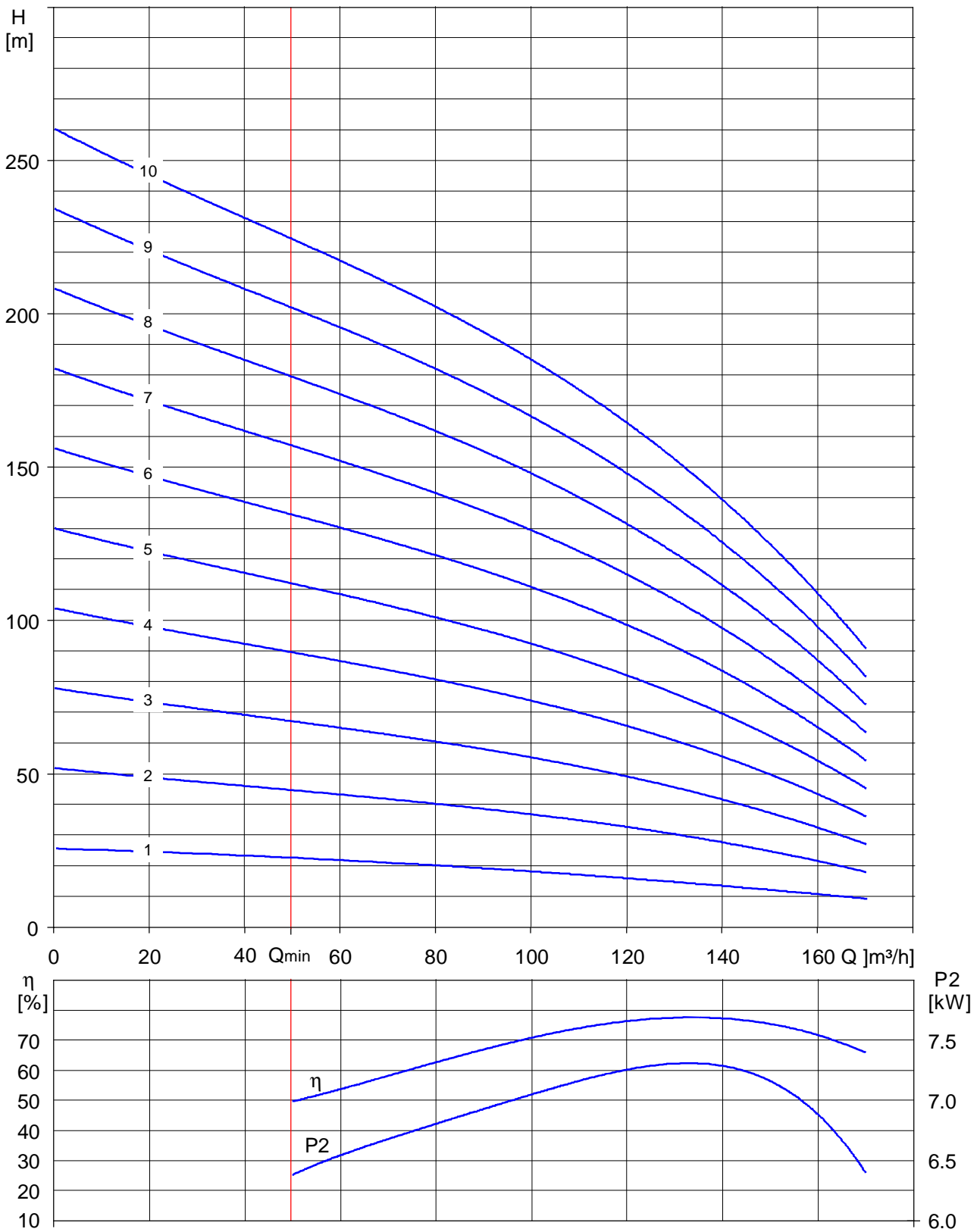
po-so-100/8.2 2850 1/min - 50 Hz

Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	11.1	16.7	22.2	27.8	30.6	33.3	36.1	41.7		
			[m³/h]	40	60	80	100	110	120	130	150		
po-so-100-12/8.2	90	172	Delivery head [m]	292	276	252	222	200	180	157	112	3926	409
po-so-100-13/8.2	110	225		316	299	273	241	217	195	170	121	4121	432
po-so-100-14/8.2	110	225		340	322	294	259	234	210	183	130	4266	447

subject to alterations

po-so-140/8.2

2850 1/min - 50 Hz



subject to alterations

po-so-140/8.2 2850 1/min - 50 Hz

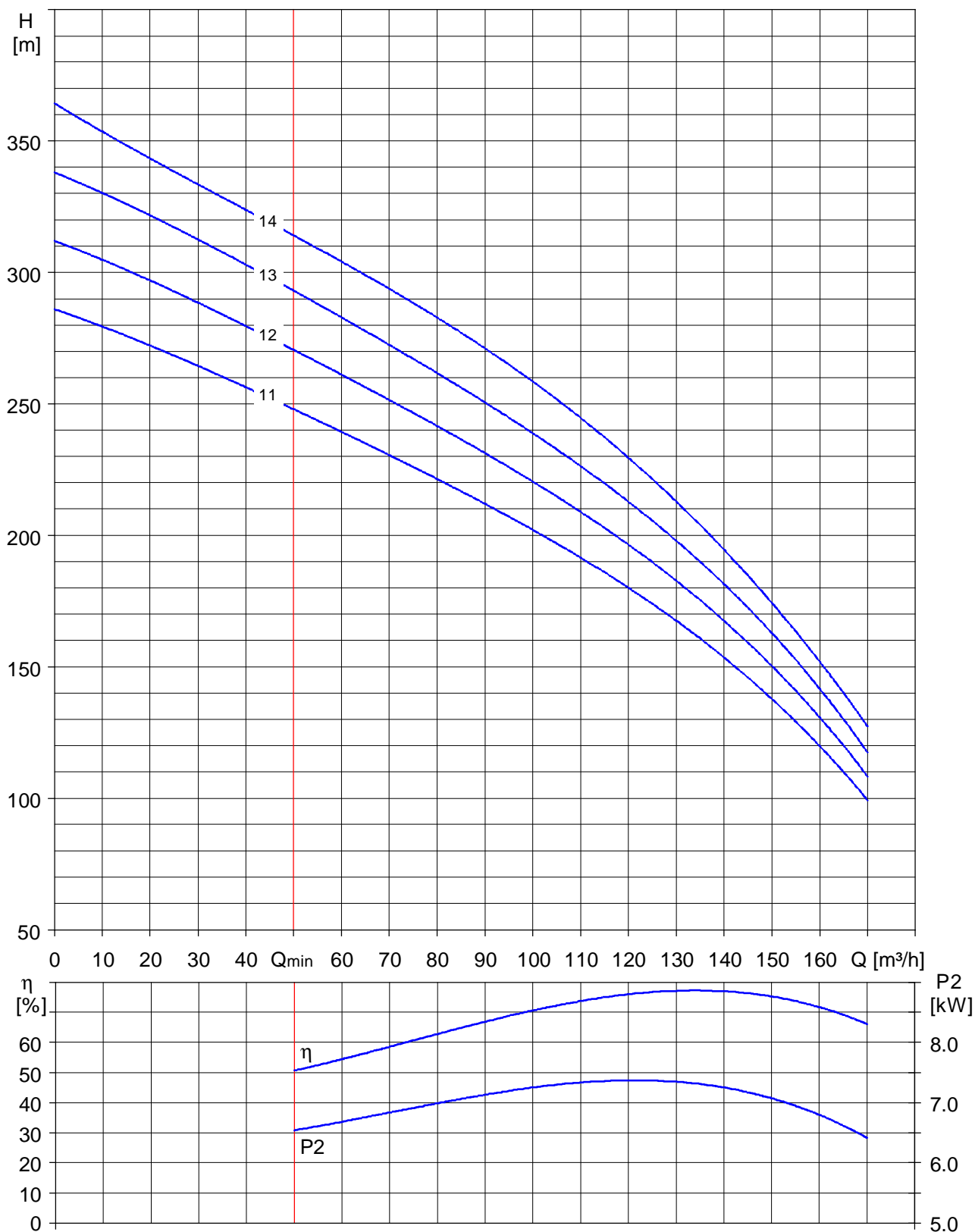
Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	13.9	19.4	25.0	30.6	36.1	38.9	41.7	47.2		
			[m³/h]	50	70	90	110	130	140	150	170		
po-so-140- 1/8.2	9.2*	21	Delivery head H [m]	23	21	19	17	15	14	13	9	1540	116
po-so-140- 2/8.2	15*	32		45	42	39	35	30	28	25	18	1865	147
po-so-140- 3/8.2	22	45		68	63	58	52	45	42	38	27	2073	199
po-so-140- 4/8.2	30	58		90	84	77	70	60	56	50	36	2323	227
po-so-140- 5/8.2	37	72		113	105	97	87	76	70	63	45	2563	254
po-so-140- 6/8.2	45	88		135	126	116	104	91	84	76	54	2798	280
po-so-140- 7/8.2	55	108		158	147	135	122	106	98	88	63	3033	306
po-so-140- 8/8.2	63	127		180	168	154	139	121	112	101	72	3268	332
po-so-140- 9/8.2	75	145		203	189	174	157	136	126	113	81	3523	361
po-so-140-10/8.2	75	145		225	210	193	174	151	140	126	90	3678	374

* 6 inch motor

Subject to alterations

po-so-140/8.2

2850 1/min - 50 Hz



subject to alterations

po-so-140/8.2
2850 1/min - 50 Hz

Type	Power P [kW]	Amperes 400V [A]	Delivery rate Q									Length l [mm]	Weight m [kg]
			[l/s]	13.9	19.4	25.0	30.6	36.1	38.9	41.7	47.2		
			[m³/h]	50	70	90	110	130	140	150	170		
po-so-140-11/8.2	90	172	Delivery head H [m]	248	231	212	191	166	154	139	99	3893	408
po-so-140-12/8.2	110	225		270	252	232	209	181	168	151	108	4098	432
po-so-140-13/8.2	110	225		293	273	251	226	196	182	164	117	4253	448
po-so-140-14/8.2	110	225		315	294	270	244	211	196	176	126	4408	463

subject to alterations