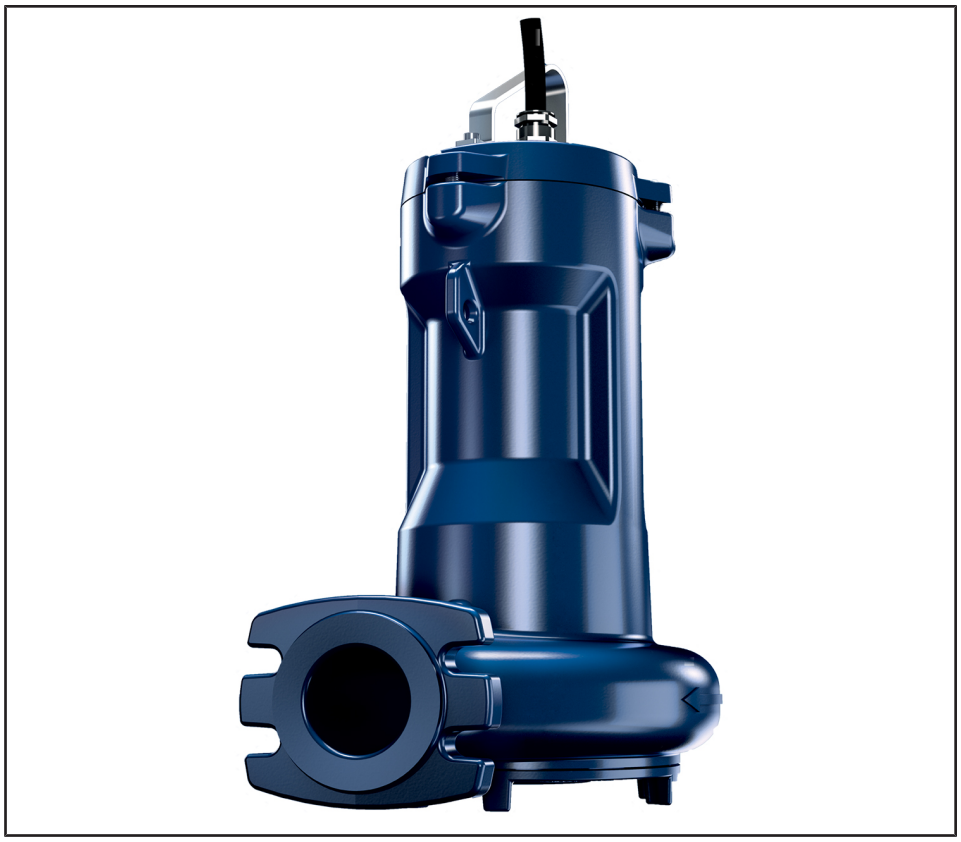
Submersible Motor Pump

Amarex

60 Hz

Characteristic Curves Booklet



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Characteristic Curves Booklet Amarex

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Contents

Waste Water **4**
Submersible Motor Pump 4
Amarex 4
Selection information 4
Overview of sizes 5
Selection charts 6
Characteristic curves 9

Waste Water

Submersible Motor Pump

Amarex



Selection information

- The indicated heads and performance data apply to material variant G, for fluids handled with a density ρ = 1 kg/dm³ and a kinematic viscosity v ≦ 20 mm²/s.
- For hydraulic acceptance tests of material variants other than "G" reduce the documented efficiencies by 2 percentage points.

Impeller type

- D-max impellers and F-max impellers can only be supplied with the documented impeller diameters. Indicate the pump set designation and the impeller diameter in the purchase order.

Efficiency class

- The IEC 60034-30 standard is not binding for submersible motor pumps.
  Efficiencies are derived in analogy to the measurement method described in IEC 60034-2. The marking is used for submersible motors that achieve efficiency levels similar to those of standardized motors acc. to the IEC 60034-30 standard.

Pump input power

- Adjust the power input to the density of the fluid handled:
  P_2 (required) = ρ [kg/dm³] (fluid handled) × P_2 (documented)
- Select the operating point with the largest power input within an operating range. Select a motor size providing a power reserve to compensate the tolerances in the system characteristic / pump characteristic.

Recommended motor power reserve[1)]

P_2	Reserve	
[kW]	Mains operation	With frequency inverter
≤ 30	10 %	15 %
> 30	5 %	10 %

In the case of waste water, too low a flow velocity in the discharge line will lead to clogging and increased wear. The flow velocity in the vertical riser must not fall below 2 m/s.

In the case of waste water, too low a circumferential speed of the impeller will lead to clogging of the hydraulic system (operation on frequency inverter). A minimum circumferential speed (measured at the impeller diameter) of 12 m/s must be observed.[2)]

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1 If larger power reserves are stipulated by local regulations, these larger reserves must be provided.
2 For F impellers, a circumferential speed below 12 m/s is permissible.

Overview of sizes

Overview of sizes, D-max impeller

Size	Speed [rpm]$^{-1}$	
	3500	1750
80-140	(⇨ Page 9)	-
80-170	(⇨ Page 11)	-
80-180	-	(⇨ Page 16)
80-230	-	(⇨ Page 18)
100-140	(⇨ Page 13)	-
100-170	(⇨ Page 14)	-
100-180	-	(⇨ Page 20)
100-230	-	(⇨ Page 22)
150-230	-	(⇨ Page 24)

Overview of sizes, F-max impeller

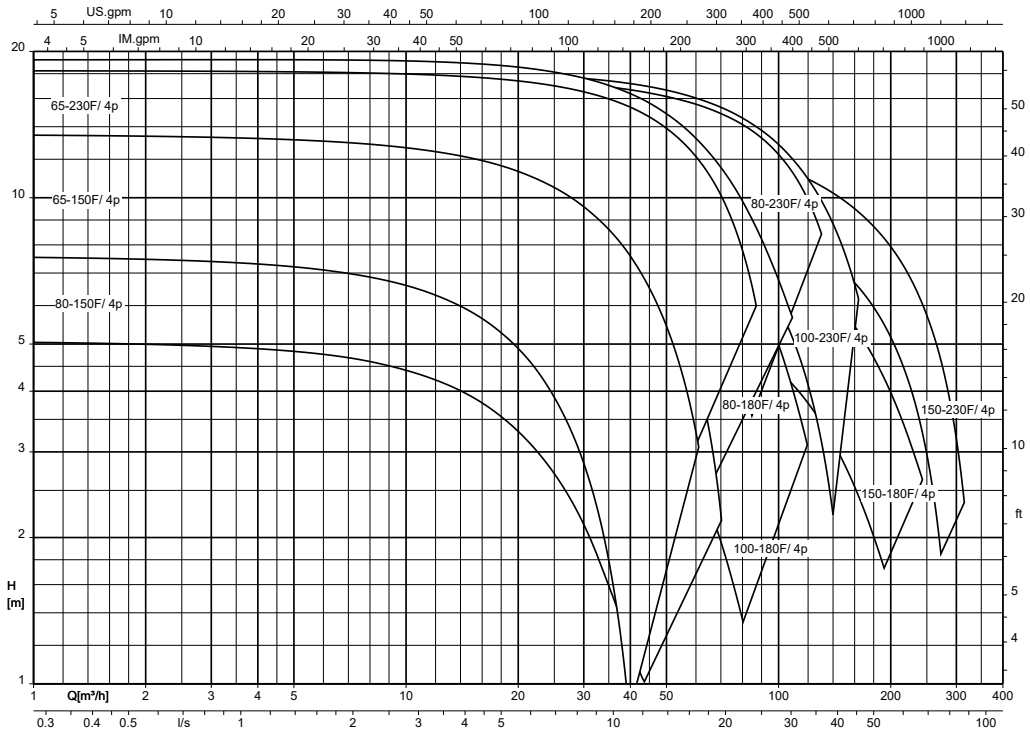
Size	Speed [rpm]$^{-1}$	
	3500	1750
50-140	(⇨ Page 26)	-
50-220	(⇨ Page 28)	-
65-150	-	(⇨ Page 34)
65-170	(⇨ Page 30)	-
65-230	-	(⇨ Page 36)
80-150	-	
80-180	-	(⇨ Page 40)
80-220	(⇨ Page 32)	-
80-230	-	(⇨ Page 42)
100-180	-	(⇨ Page 44)
100-230	-	(⇨ Page 46)
150-180	-	(⇨ Page 48)
150-230	-	(⇨ Page 50)

2573.460/01-EN-US

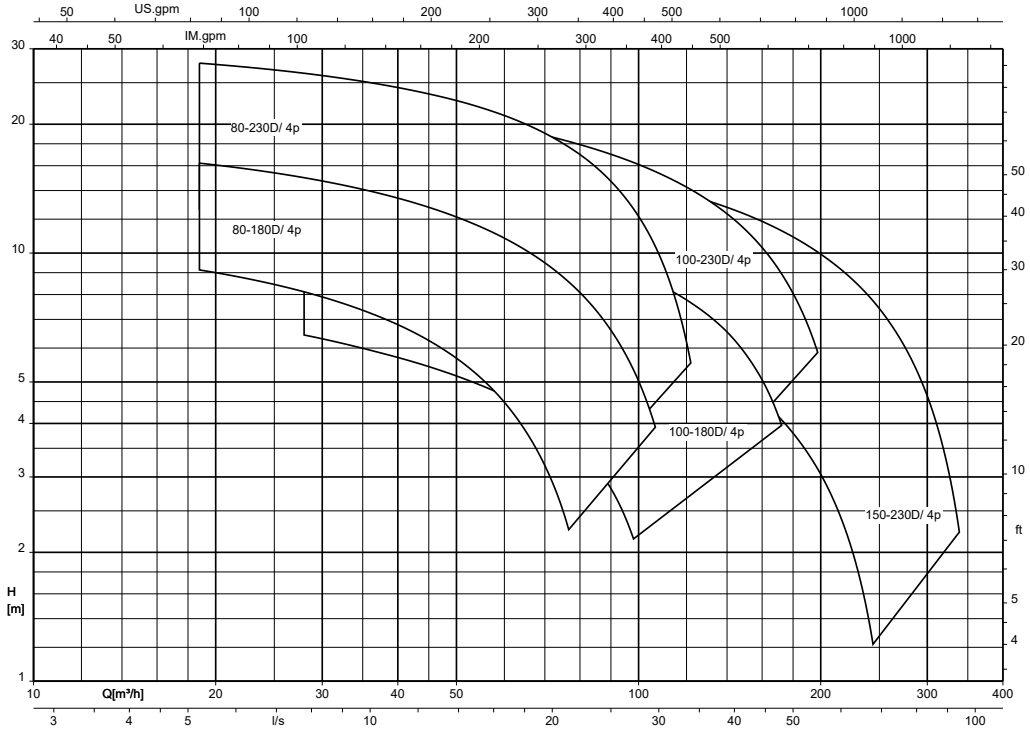
Selection charts

n = 1750 rpm

Amarex, F-max, n = 1750 rpm

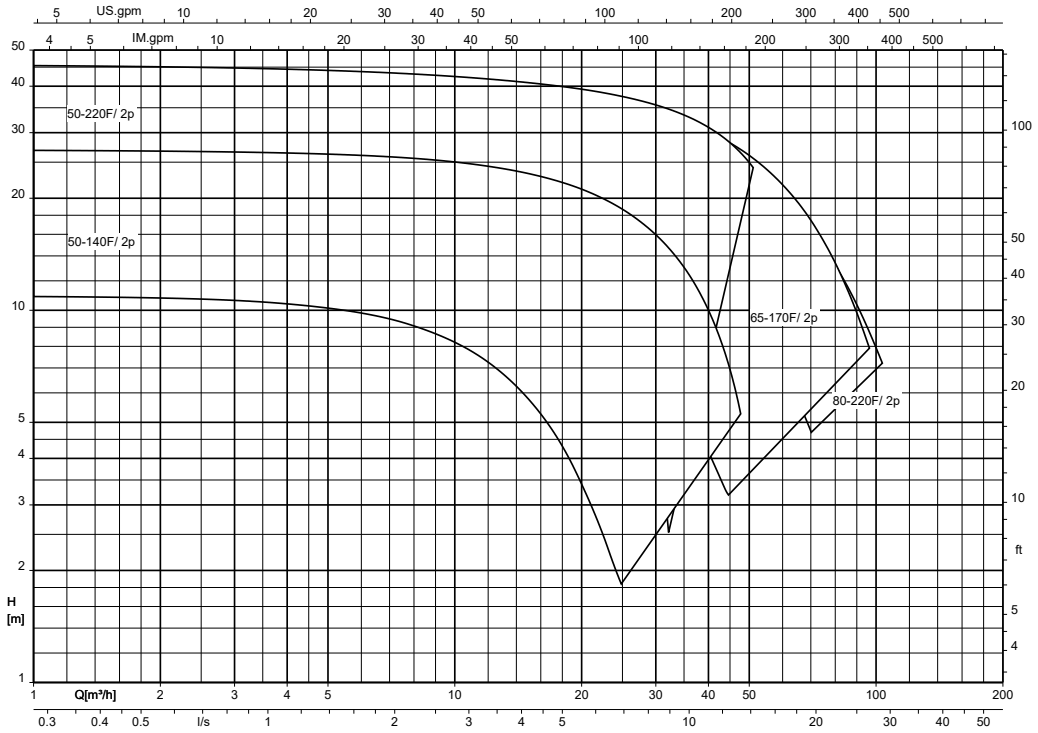


Amarex, D-max, n = 1750 rpm

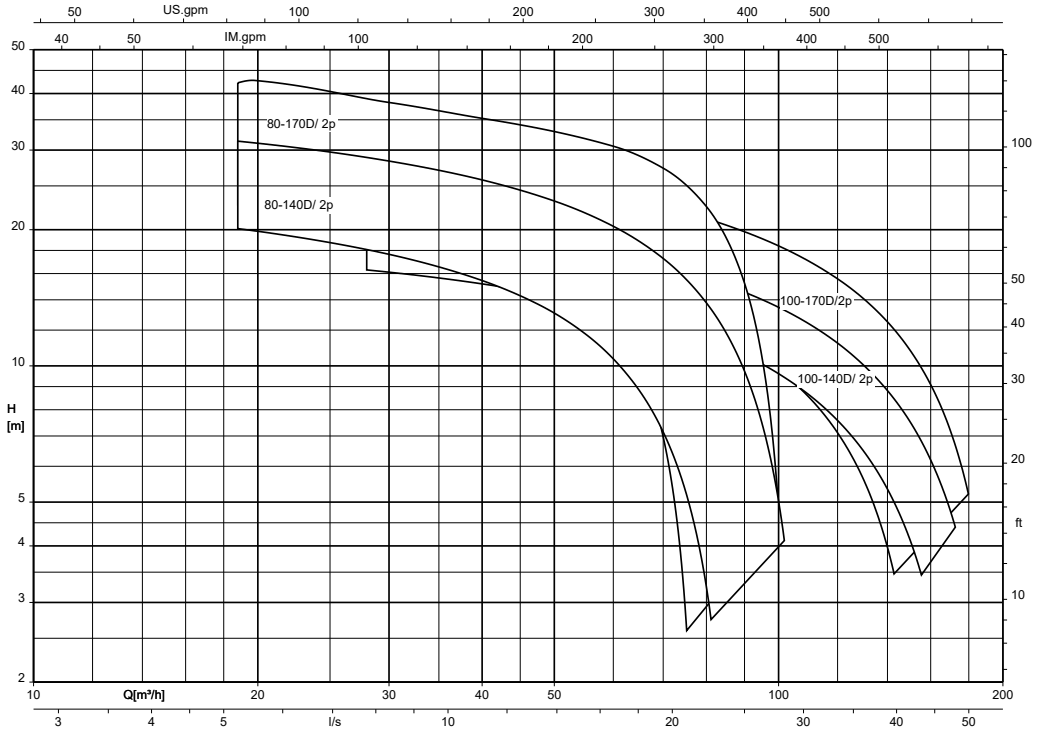


n = 3500 rpm

Amarex, F-max, n = 3500 rpm



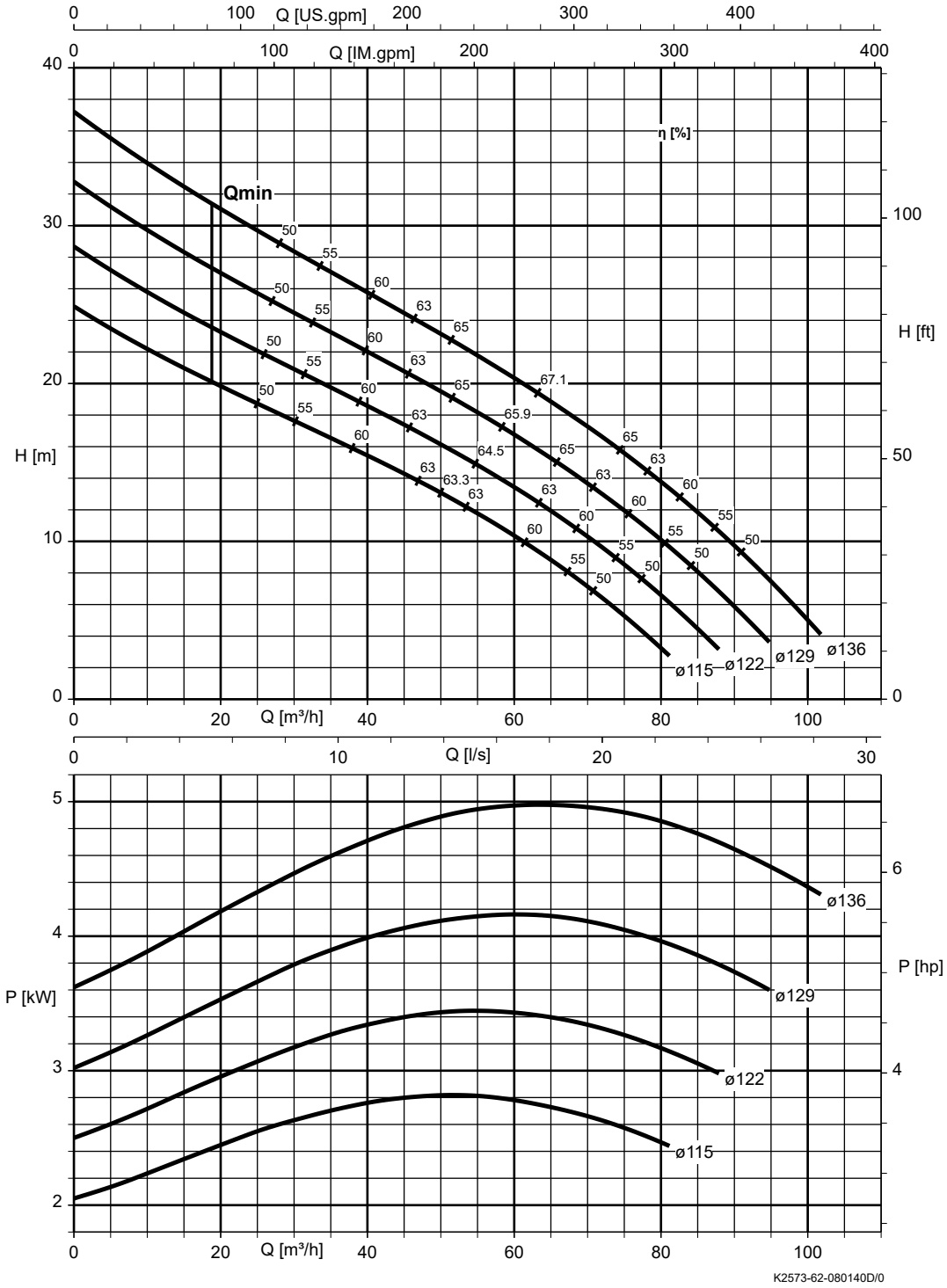
Amarex, D-max, n = 3500 rpm



Characteristic curves

D-max impeller

Amarex D-max 80-140, n = 3500 rpm

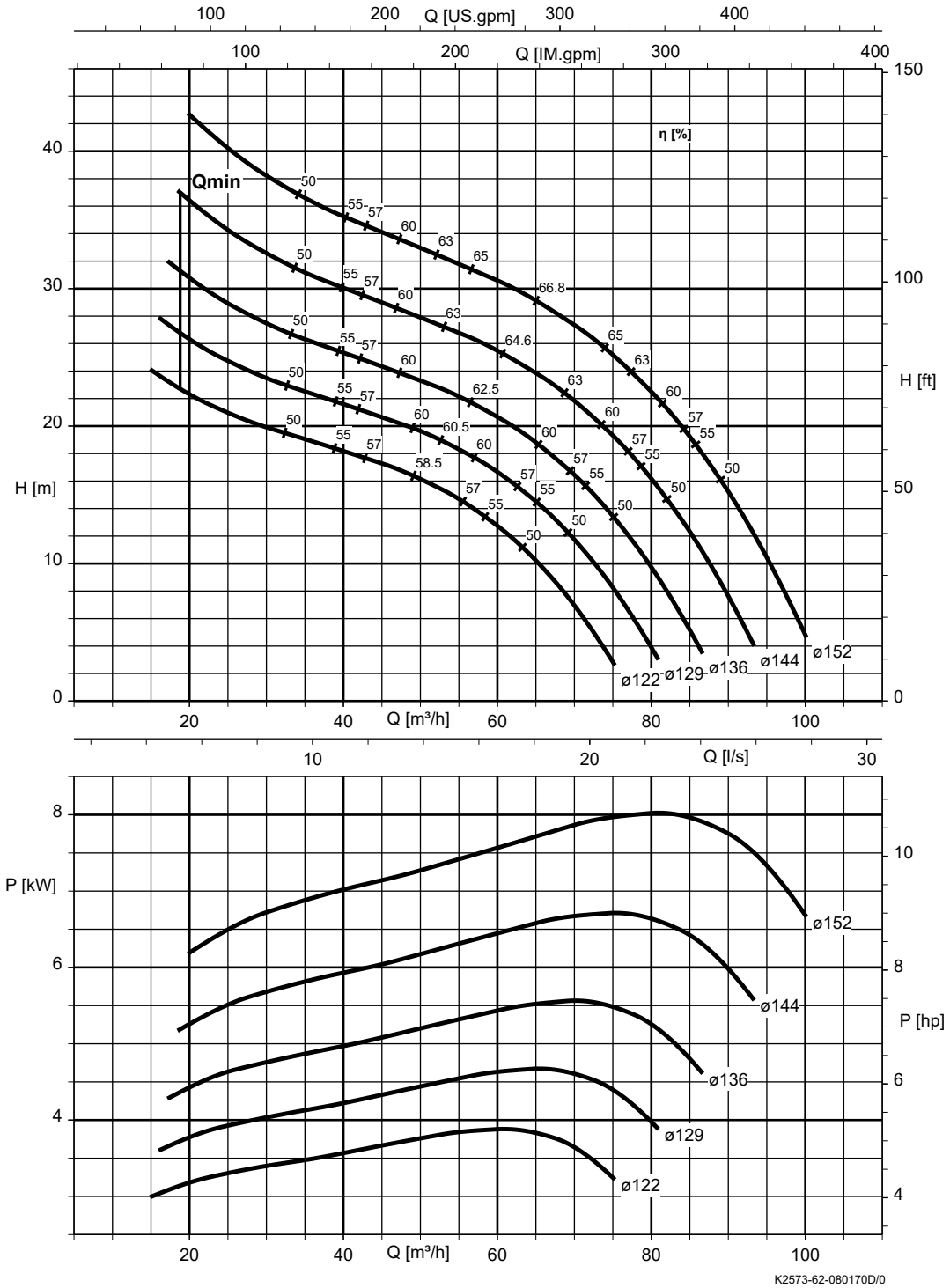


Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-140/029C2	115	M	2,90	3,89	3,33	4,47	5,5	DOL
D080-140/040F2	115	M	4,00	5,36	4,70	6,30	7,0	DOL
D080-140/051F2	115	L	5,10	6,84	5,93	7,95	8,7	DOL
D080-140/040F2	122	M	4,00	5,36	4,70	6,30	7,0	DOL
D080-140/051F2	122	L	5,10	6,84	5,93	7,95	8,7	DOL
D080-140/040F2	129	M	4,00	5,36	4,70	6,30	7,0	DOL
D080-140/051F2	129	L	5,10	6,84	5,93	7,95	8,7	DOL
D080-140/051F2	136	L	5,10	6,84	5,93	7,95	8,7	DOL

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Amarex D-max 80-170, n = 3500 rpm



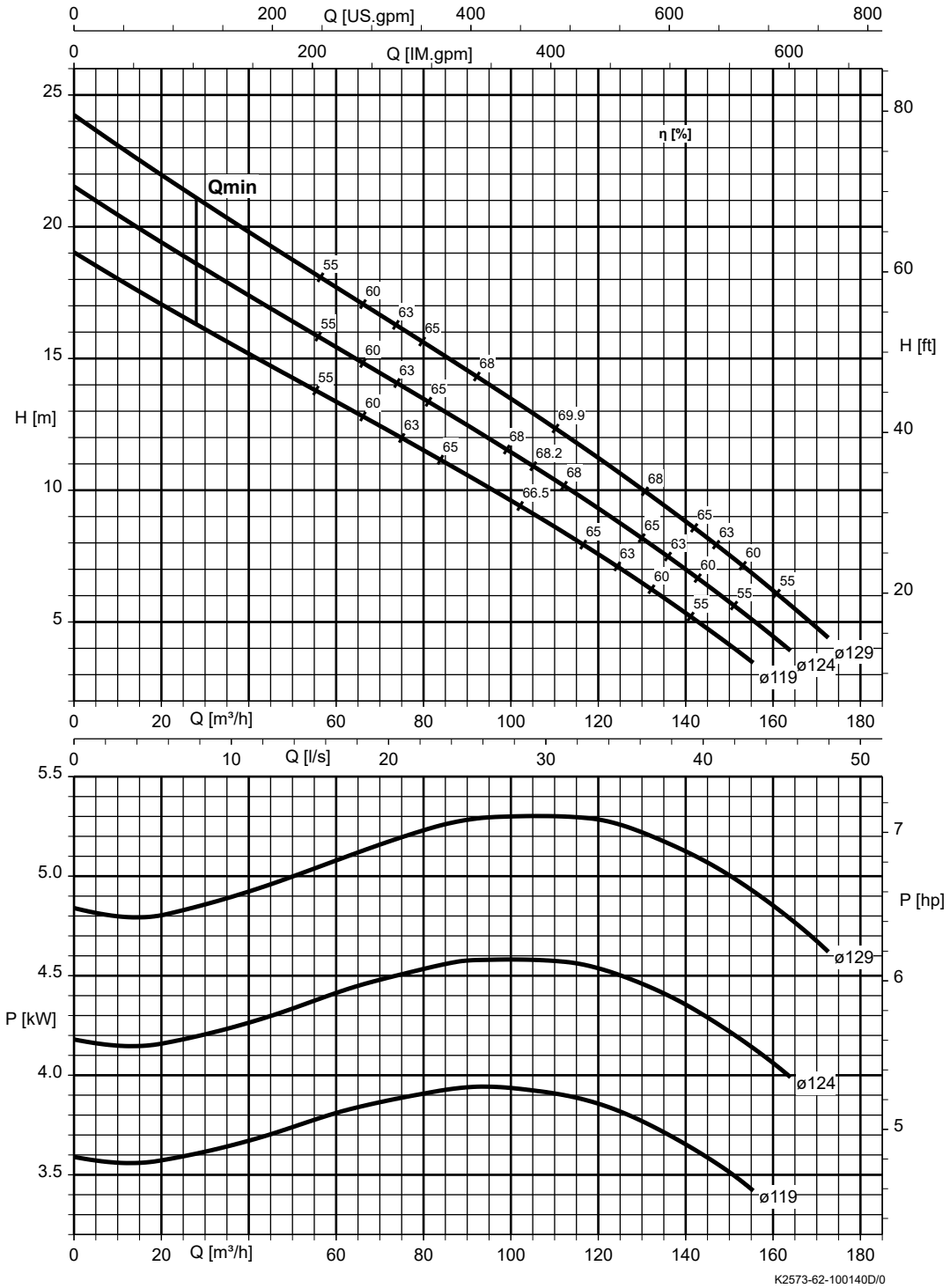
Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-170/046C2	122	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
D080-170/055C2	122	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL / star-delta
D080-170/055C2	129	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL / star-delta

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-170/068F2	144	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
D080-170/084F2	144	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
D080-170/084F2	152	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta

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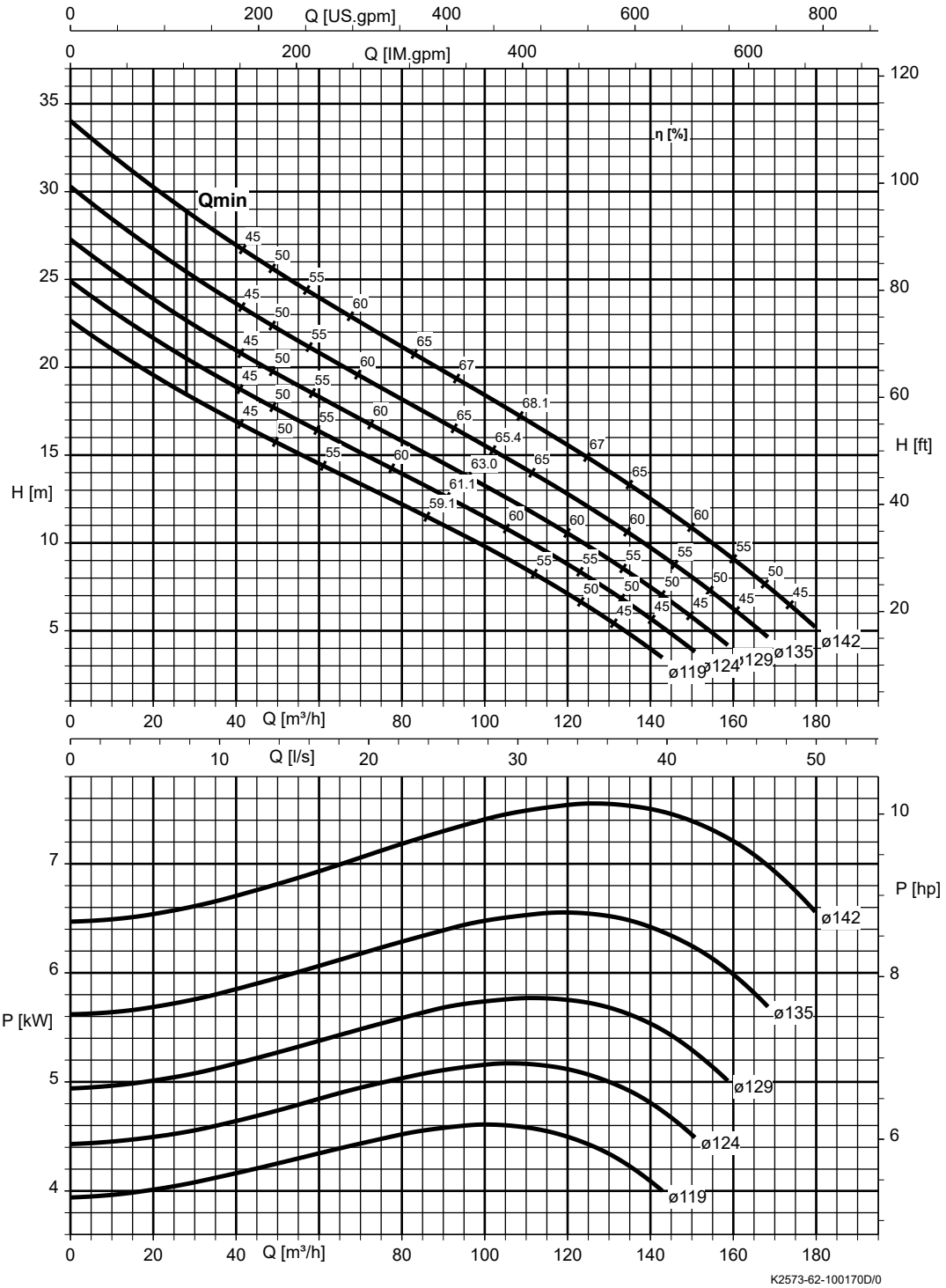
Amarex D-max 100-140, n = 3500 rpm



Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-140/040F2	119	M	4,00	5,36	4,70	6,30	7,0	DOL
D100-140/051F2	119	L	5,10	6,84	5,93	7,95	8,7	DOL
D100-140/051F2	124	L	5,10	6,84	5,93	7,95	8,7	DOL
D100-140/051F2	129	L	5,10	6,84	5,93	7,95	8,7	DOL

Amarex D-max 100-170, n = 3500 rpm



Motor assignment

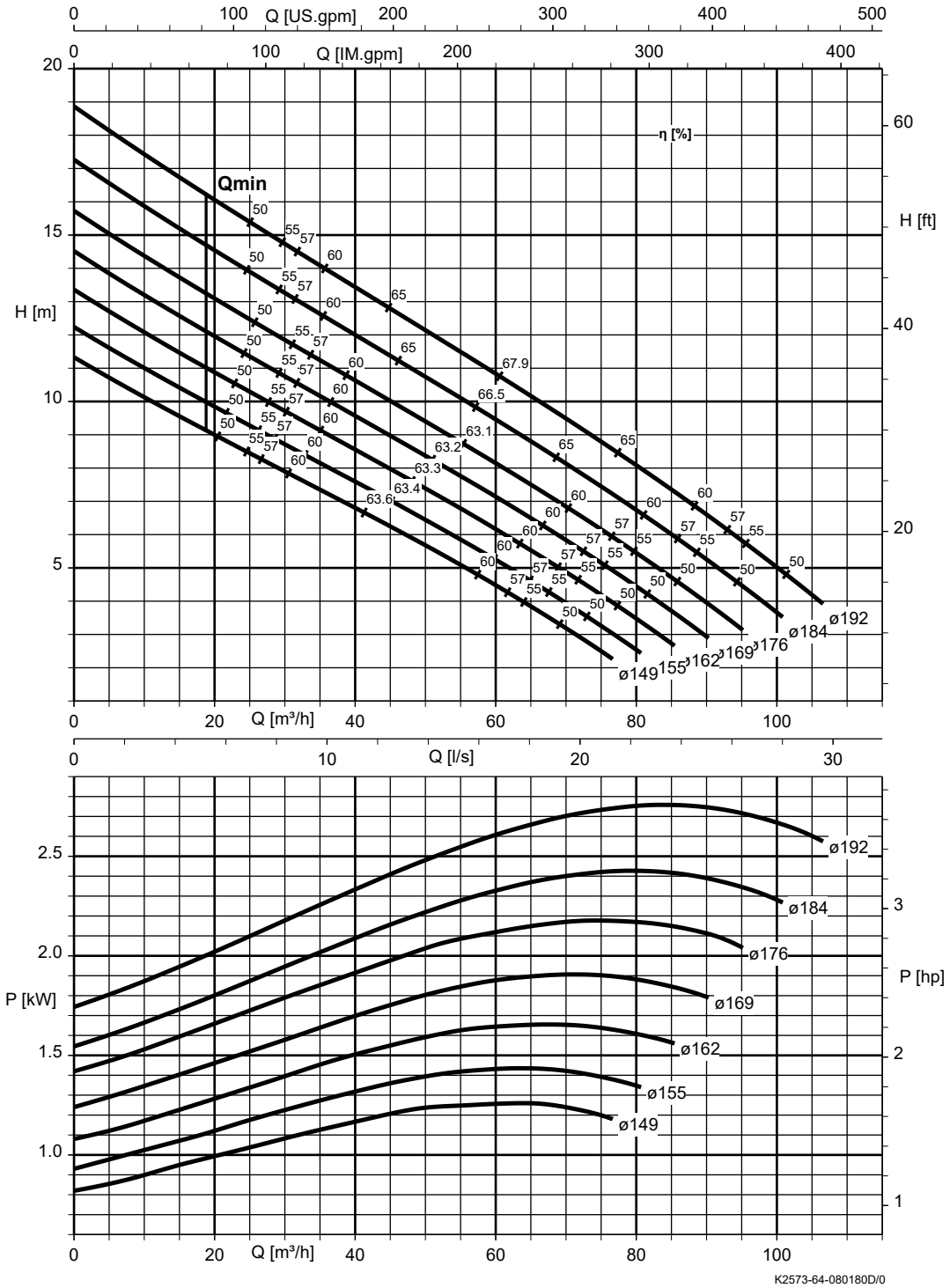
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-170/055C2	119	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL / star-delta
D100-170/051F2	124	L	5,10	6,84	5,93	7,95	8,7	DOL
D100-170/055C2	124	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL / star-delta
D100-170/068F2	124	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
D100-170/068F2	129	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta

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Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-170/084F2	129	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
D100-170/068F2	135	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
D100-170/084F2	135	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
D100-170/084F2	142	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta

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Amarex D-max 80-180, n = 1750 rpm



Motor assignment

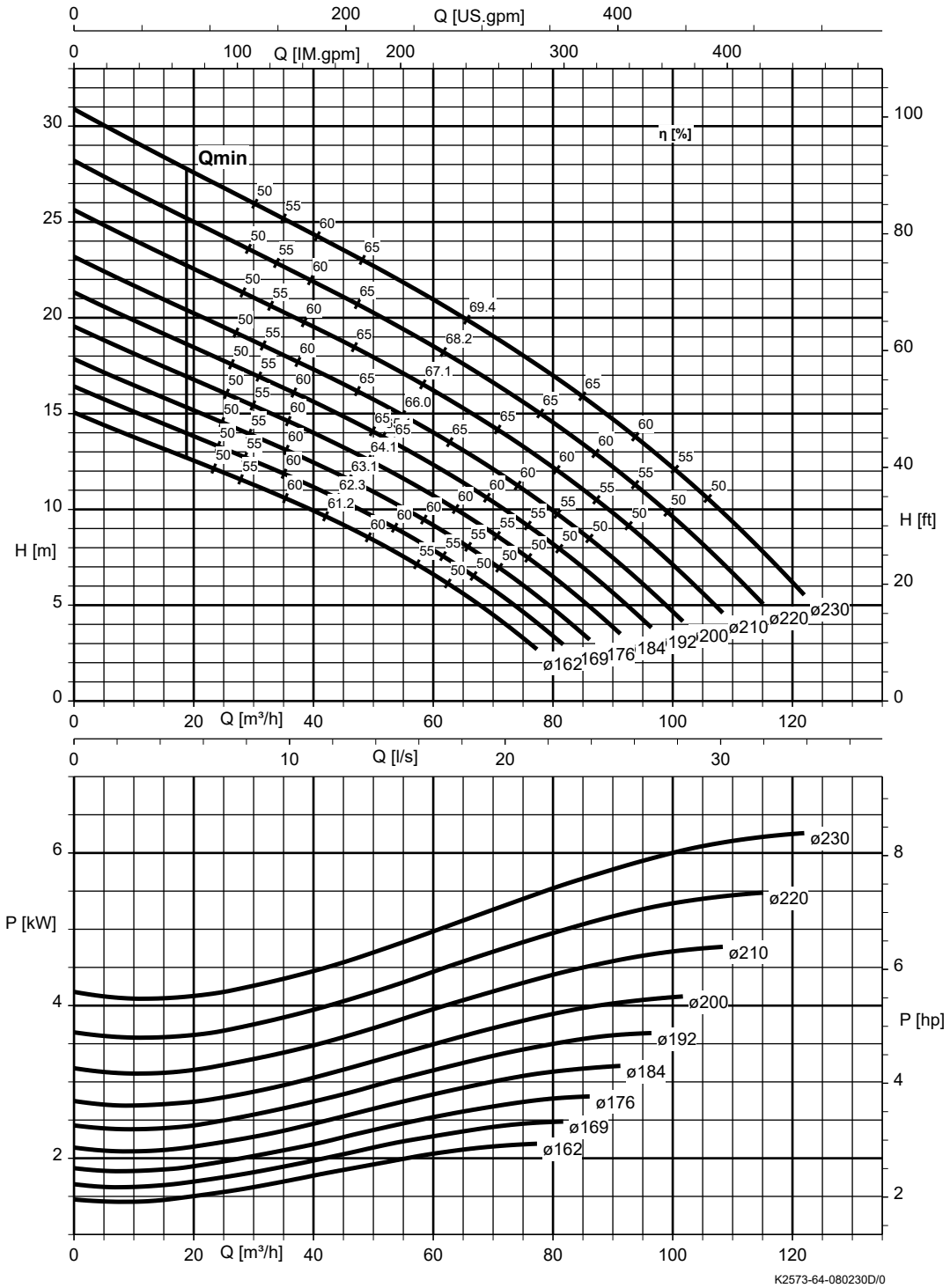
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-180/015C4	149	M	1,53	2,05	1,76	2,36	3,3	DOL
D080-180/017F4	149	M	1,70	2,28	2,06	2,76	3,2	DOL
D080-180/018C4	149	L	1,84	2,47	2,09	2,80	4,3	DOL
D080-180/023F4	149	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/015C4	155	M	1,53	2,05	1,76	2,36	3,3	DOL

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Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-180/017F4	155	M	1,70	2,28	2,06	2,76	3,2	DOL
D080-180/018C4	155	L	1,84	2,47	2,09	2,80	4,3	DOL
D080-180/023F4	155	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/017F4	162	M	1,70	2,28	2,06	2,76	3,2	DOL
D080-180/018C4	162	L	1,84	2,47	2,09	2,80	4,3	DOL
D080-180/023F4	162	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/023F4	169	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/036F4	169	L	3,60	4,83	4,22	5,66	6,5	DOL
D080-180/023F4	176	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/036F4	176	L	3,60	4,83	4,22	5,66	6,5	DOL
D080-180/023F4	184	M	2,30	3,08	2,77	3,71	4,3	DOL
D080-180/036F4	184	L	3,60	4,83	4,22	5,66	6,5	DOL
D080-180/036F4	192	L	3,60	4,83	4,22	5,66	6,5	DOL

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Amarex D-max 80-230, n = 1750 rpm



Motor assignment

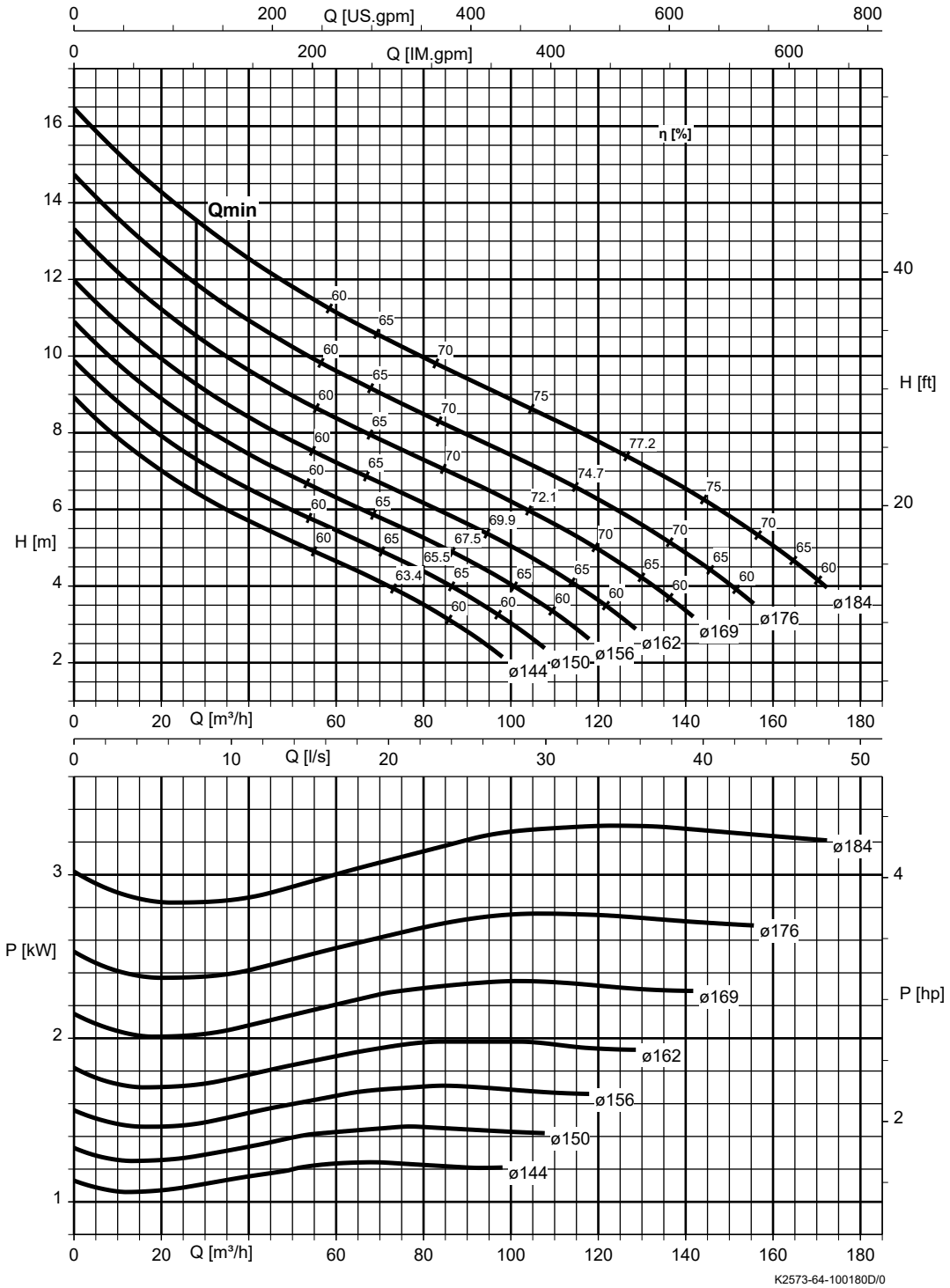
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-230/045C4	162	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/045C4	169	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/045C4	176	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/036F4	184	L	3,60	4,83	4,22	5,66	6,5	DOL
D080-230/043F4	184	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta

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Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D080-230/045C4	184	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/036F4	192	L	3,60	4,83	4,22	5,66	6,5	DOL
D080-230/043F4	192	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
D080-230/045C4	192	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/043F4	200	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
D080-230/045C4	200	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/065F4	200	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D080-230/045C4	210	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D080-230/065F4	210	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D080-230/077F4	210	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D080-230/065F4	220	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D080-230/077F4	220	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D080-230/065F4	230	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D080-230/077F4	230	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

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Amarex D-max 100-180, n = 1750 rpm



Motor assignment

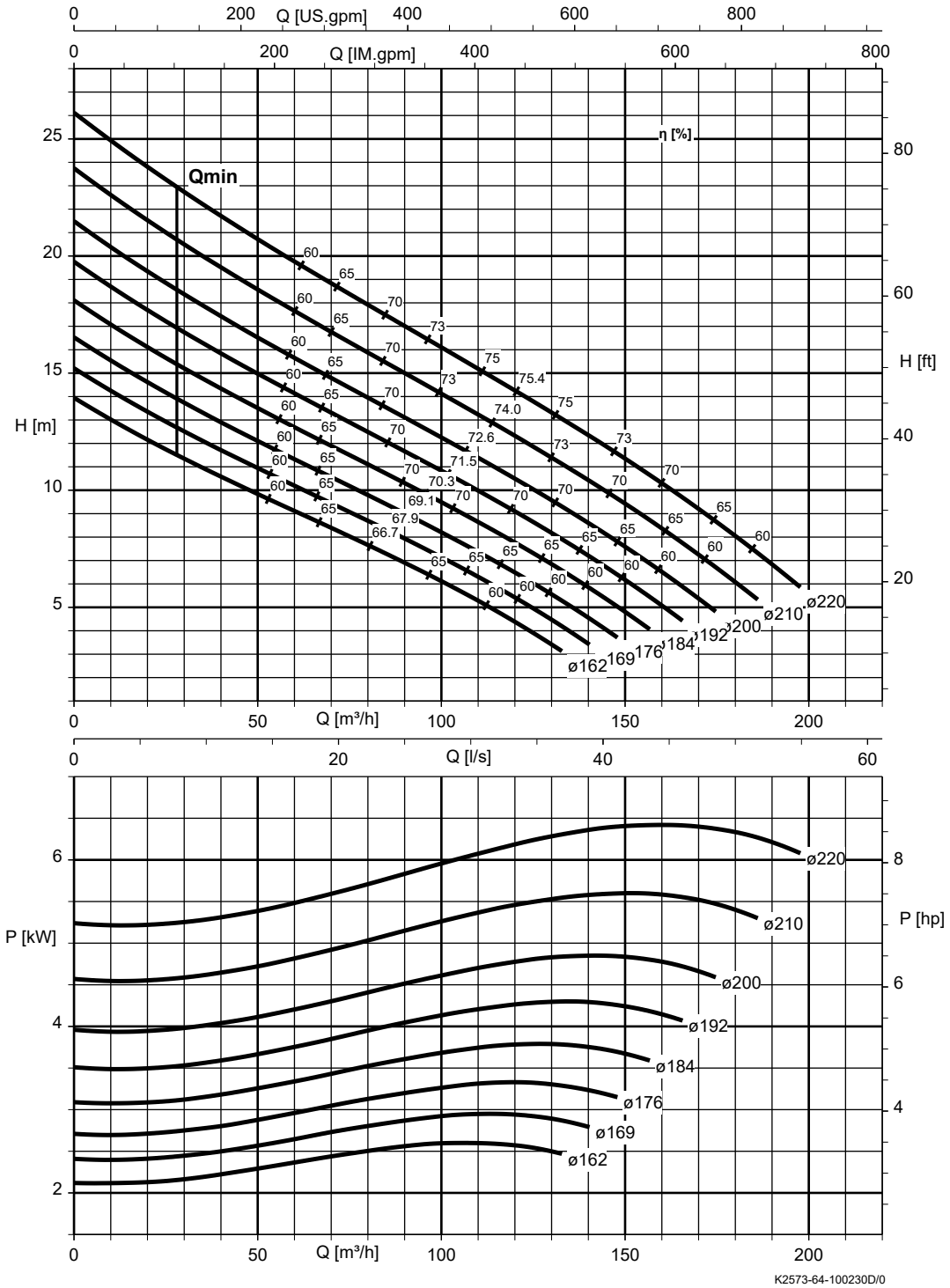
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-180/015C4	144	M	1,53	2,05	1,76	2,36	3,3	DOL
D100-180/017F4	144	M	1,70	2,28	2,06	2,76	3,2	DOL
D100-180/018C4	144	L	1,84	2,47	2,09	2,80	4,3	DOL
D100-180/023F4	144	M	2,30	3,08	2,77	3,71	4,3	DOL
D100-180/015C4	150	M	1,53	2,05	1,76	2,36	3,3	DOL

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Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-180/017F4	150	M	1,70	2,28	2,06	2,76	3,2	DOL
D100-180/018C4	150	L	1,84	2,47	2,09	2,80	4,3	DOL
D100-180/023F4	150	M	2,30	3,08	2,77	3,71	4,3	DOL
D100-180/017F4	156	M	1,70	2,28	2,06	2,76	3,2	DOL
D100-180/018C4	156	L	1,84	2,47	2,09	2,80	4,3	DOL
D100-180/023F4	156	M	2,30	3,08	2,77	3,71	4,3	DOL
D100-180/023F4	162	M	2,30	3,08	2,77	3,71	4,3	DOL
D100-180/036F4	162	L	3,60	4,83	4,22	5,66	6,5	DOL
D100-180/036F4	169	L	3,60	4,83	4,22	5,66	6,5	DOL
D100-180/036F4	176	L	3,60	4,83	4,22	5,66	6,5	DOL
D100-180/036F4	184	L	3,60	4,83	4,22	5,66	6,5	DOL

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Amarex D-max 100-230, n = 1750 rpm



Motor assignment

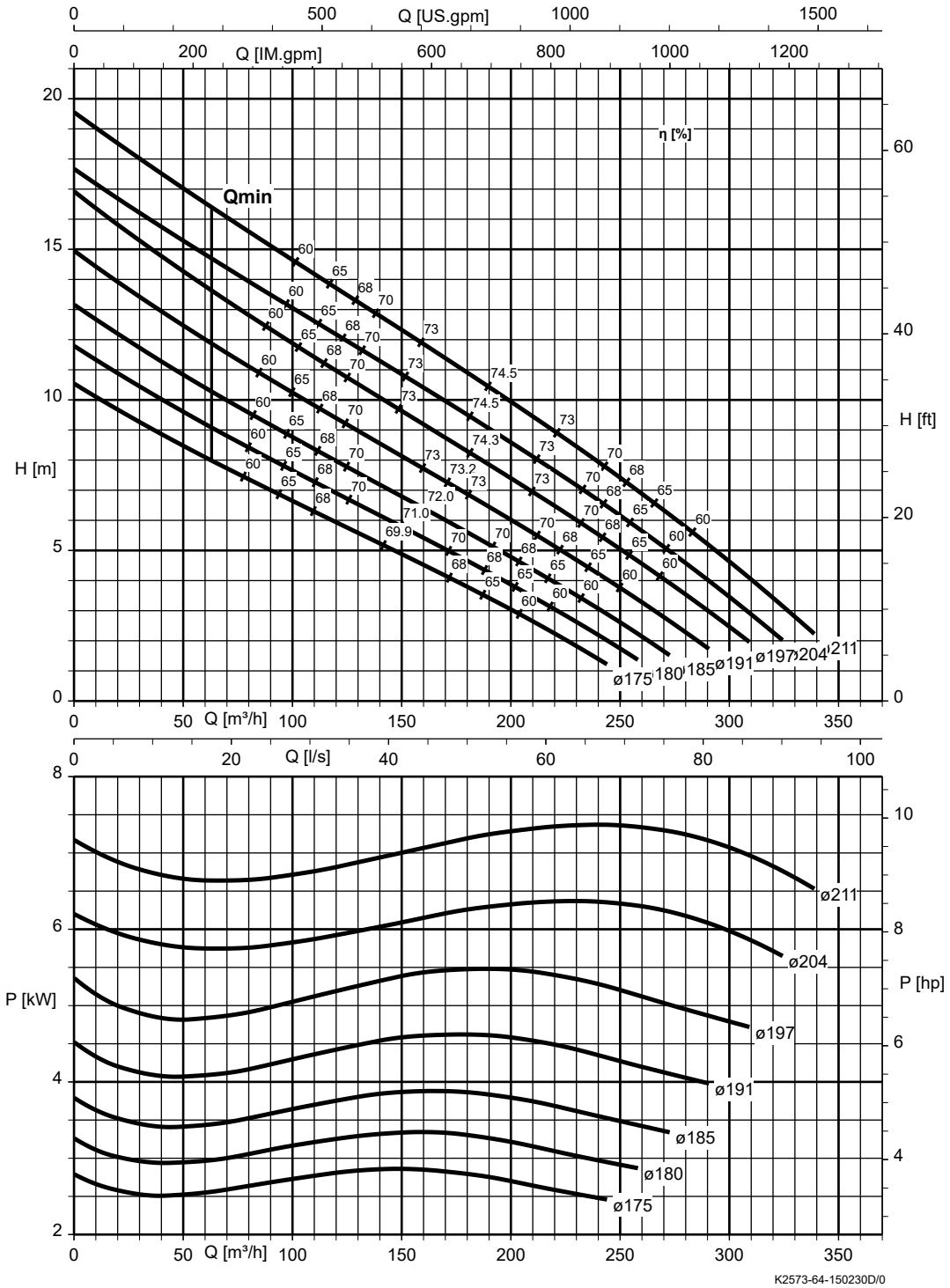
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-230/045C4	162	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D100-230/045C4	169	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D100-230/045C4	176	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D100-230/043F4	184	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
D100-230/045C4	184	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta

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Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D100-230/043F4	192	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
D100-230/045C4	192	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D100-230/065F4	200	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D100-230/077F4	200	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D100-230/065F4	210	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D100-230/077F4	210	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D100-230/065F4	220	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D100-230/077F4	220	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

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Amarex D-max 150-230, n = 1750 rpm



Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D150-230/045C4	175	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D150-230/065F4	175	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D150-230/077F4	175	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D150-230/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta

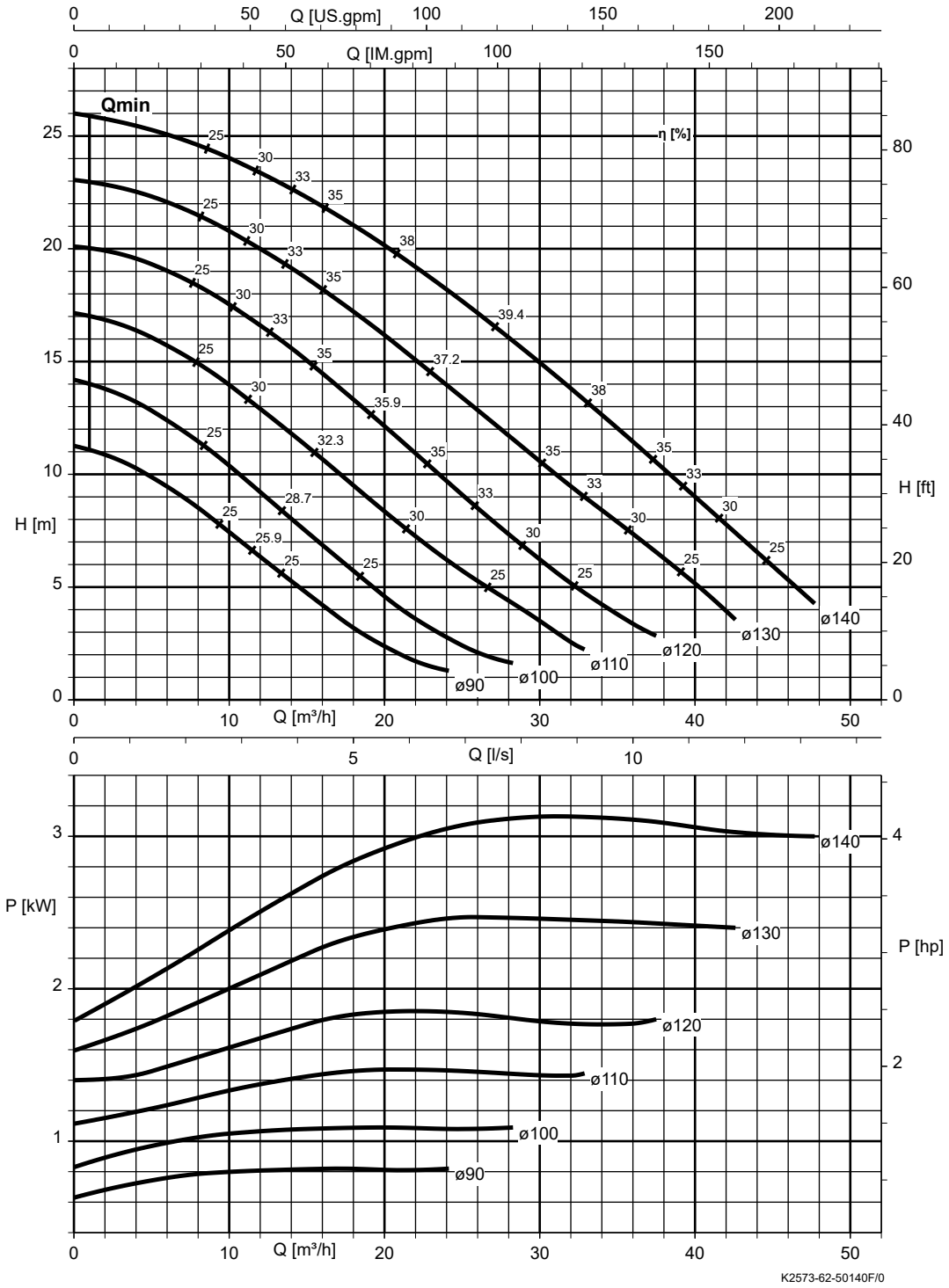
2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
D150-230/077F4	180	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/045C4	185	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
D150-230/065F4	185	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D150-230/077F4	185	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/065F4	191	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D150-230/077F4	191	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/065F4	197	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D150-230/077F4	197	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/065F4	204	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
D150-230/077F4	204	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
D150-230/077F4	211	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

F-max impeller

Amarex F-max 50-140, n = 3500 rpm



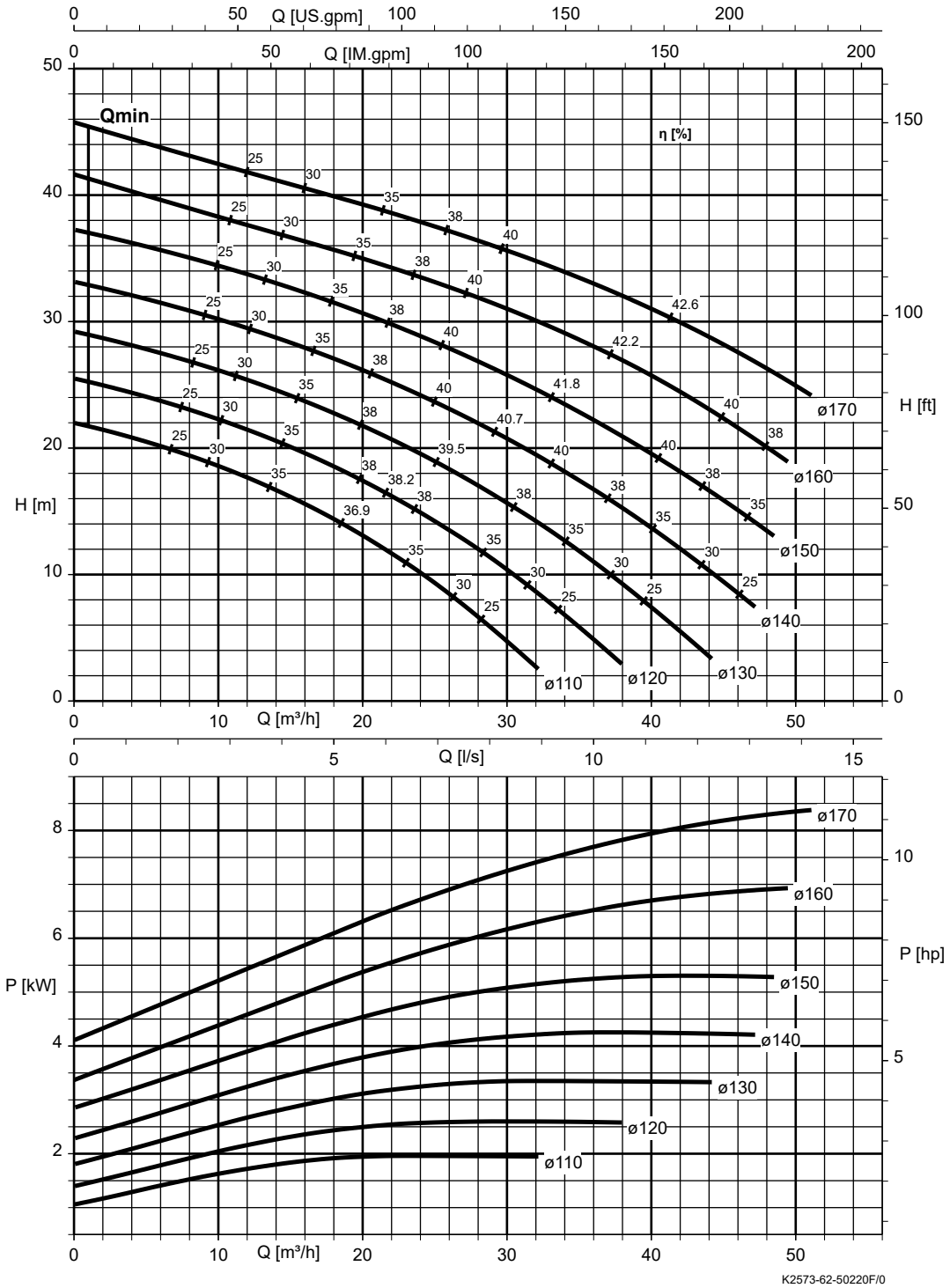
Free passage = 1 $^{6}/_{8}$ in [44 mm]

Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F050-140/018C2	90	S	1,84	2,47	2,15	2,88	3,6	DOL
F050-140/023F2	90	S	2,35	3,15	2,83	3,80	4,4	DOL
F050-140/018C2	100	S	1,84	2,47	2,15	2,88	3,6	DOL
F050-140/023F2	100	S	2,35	3,15	2,83	3,80	4,4	DOL
F050-140/018C2	110	S	1,84	2,47	2,15	2,88	3,6	DOL
F050-140/023F2	110	S	2,35	3,15	2,83	3,80	4,4	DOL
F050-140/018C2	120	S	1,84	2,47	2,15	2,88	3,6	DOL
F050-140/023F2	120	S	2,35	3,15	2,83	3,80	4,4	DOL
F050-140/023F2	130	S	2,35	3,15	2,83	3,80	4,4	DOL
F050-140/023F2	140	S	2,35	3,15	2,83	3,80	4,4	DOL

2573.460/01-EN-US

Amarex F-max 50-220, n = 3500 rpm



Free passage = 1 $^{9}/_{16}$ in [40 mm]

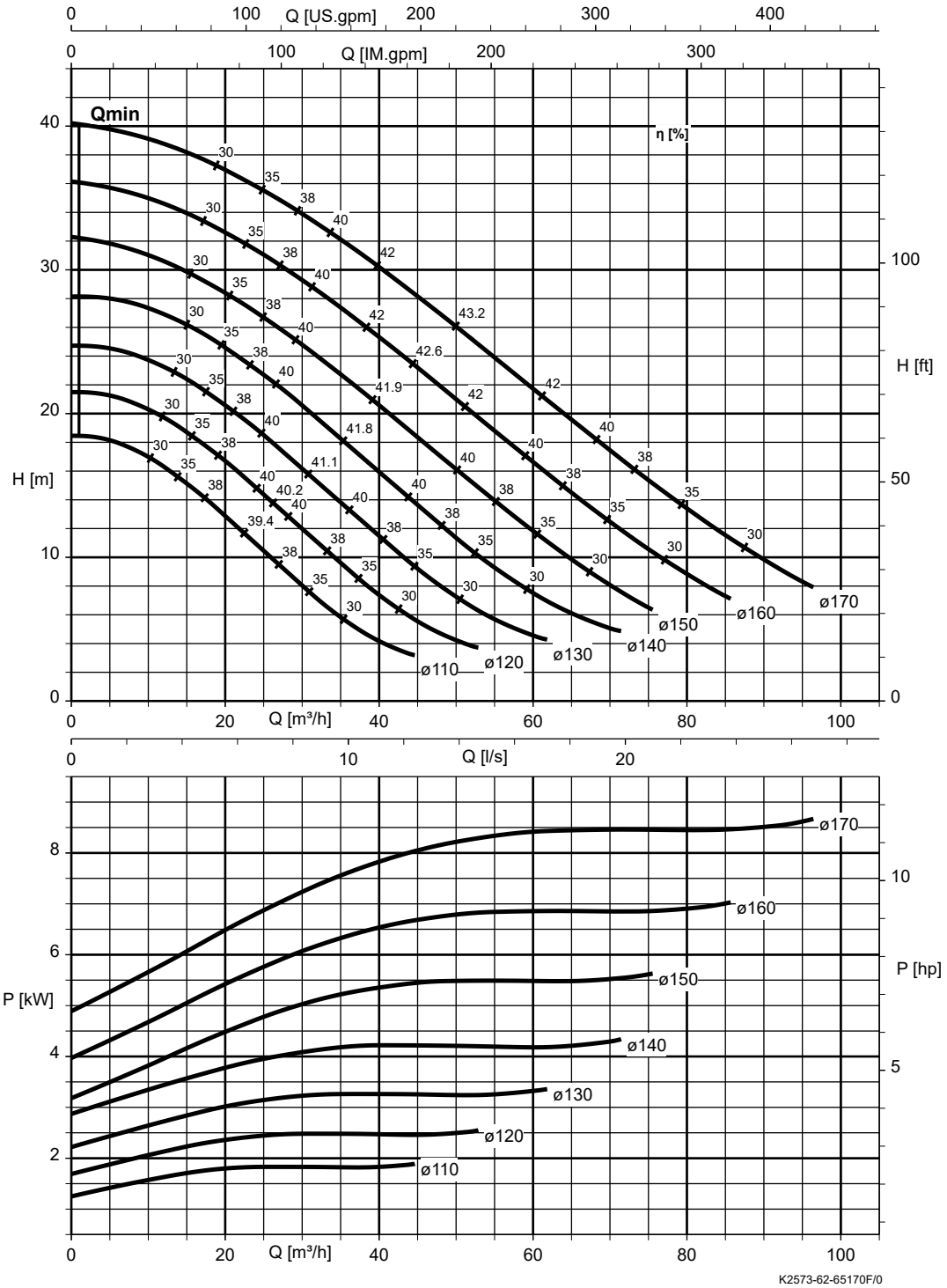
Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F050-220/022C2	110	M	2,20	2,95	2,56	3,43	3,8	DOL
F050-220/024F2	110	M	2,40	3,22	2,81	3,77	4,1	DOL
F050-220/029C2	110	M	2,90	3,89	3,33	4,47	5,5	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F050-220/046C2	110	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/040F2	110	M	4,00	5,36	4,70	6,30	7,0	DOL
F050-220/051F2	110	L	5,10	6,84	5,93	7,95	8,7	DOL
F050-220/029C2	120	M	2,90	3,89	3,33	4,47	5,5	DOL
F050-220/046C2	120	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/040F2	120	M	4,00	5,36	4,70	6,30	7,0	DOL
F050-220/046C2	120	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/051F2	120	L	5,10	6,84	5,93	7,95	8,7	DOL
F050-220/068F2	120	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F050-220/040F2	130	M	4,00	5,36	4,70	6,30	7,0	DOL
F050-220/046C2	130	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/051F2	130	L	5,10	6,84	5,93	7,95	8,7	DOL
F050-220/068F2	130	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F050-220/040F2	140	M	4,00	5,36	4,70	6,30	7,0	DOL
F050-220/046C2	140	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/051F2	140	L	5,10	6,84	5,93	7,95	8,7	DOL
F050-220/068F2	140	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F050-220/040F2	150	M	4,00	5,36	4,70	6,30	7,0	DOL
F050-220/046C2	150	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F050-220/051F2	150	L	5,10	6,84	5,93	7,95	8,7	DOL
F050-220/068F2	150	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F050-220/068F2	160	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F050-220/068F2	170	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta

Amarex F-max 65-170, n = 3500 rpm



Free passage = 2 $^{9}/_{16}$ in [65 mm]

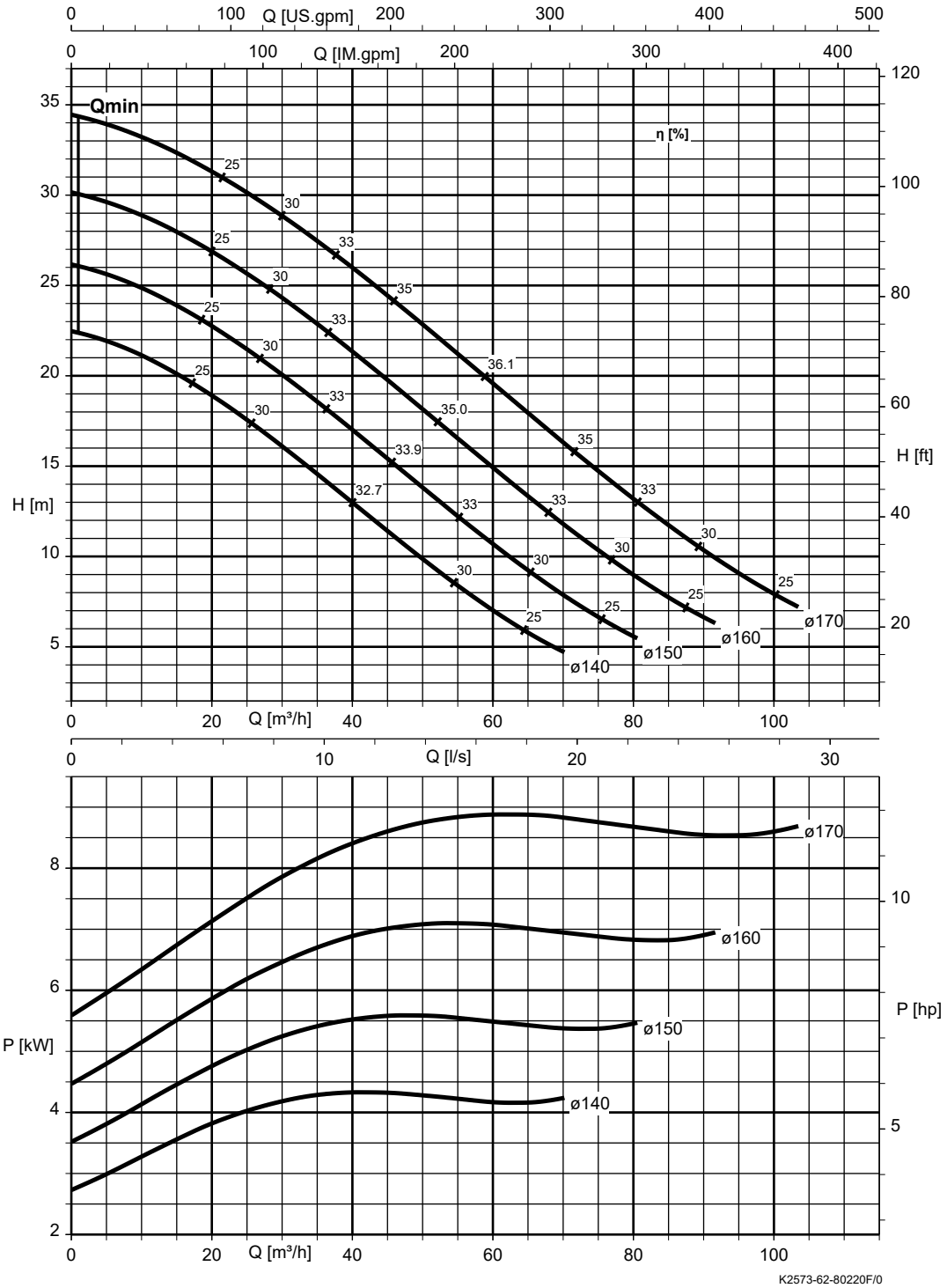
Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-170/022C2	110	M	2,20	2,95	2,56	3,43	3,8	DOL
F065-170/024F2	110	M	2,40	3,22	2,81	3,77	4,1	DOL
F065-170/029C2	110	M	2,90	3,89	3,33	4,47	5,5	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-170/046C2	110	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F065-170/040F2	110	M	4,00	5,36	4,70	6,30	7,0	DOL
F065-170/051F2	110	L	5,10	6,84	5,93	7,95	8,7	DOL
F065-170/024F2	120	M	2,40	3,22	2,81	3,77	4,1	DOL
F065-170/029C2	120	M	2,90	3,89	3,33	4,47	5,5	DOL
F065-170/046C2	120	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F065-170/040F2	120	M	4,00	5,36	4,70	6,30	7,0	DOL
F065-170/046C2	120	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F065-170/051F2	120	L	5,10	6,84	5,93	7,95	8,7	DOL
F065-170/068F2	120	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F065-170/040F2	130	M	4,00	5,36	4,70	6,30	7,0	DOL
F065-170/046C2	130	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F065-170/051F2	130	L	5,10	6,84	5,93	7,95	8,7	DOL
F065-170/068F2	130	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F065-170/040F2	140	M	4,00	5,36	4,70	6,30	7,0	DOL
F065-170/046C2	140	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F065-170/051F2	140	L	5,10	6,84	5,93	7,95	8,7	DOL
F065-170/068F2	140	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F065-170/051F2	150	L	5,10	6,84	5,93	7,95	8,7	DOL
F065-170/068F2	150	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F065-170/068F2	160	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F065-170/068F2	170	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta

Amarex F-max 80-220, n = 3500 rpm



Free passage = 3 $^{1}/_{8}$″ [80 mm]

Motor assignment

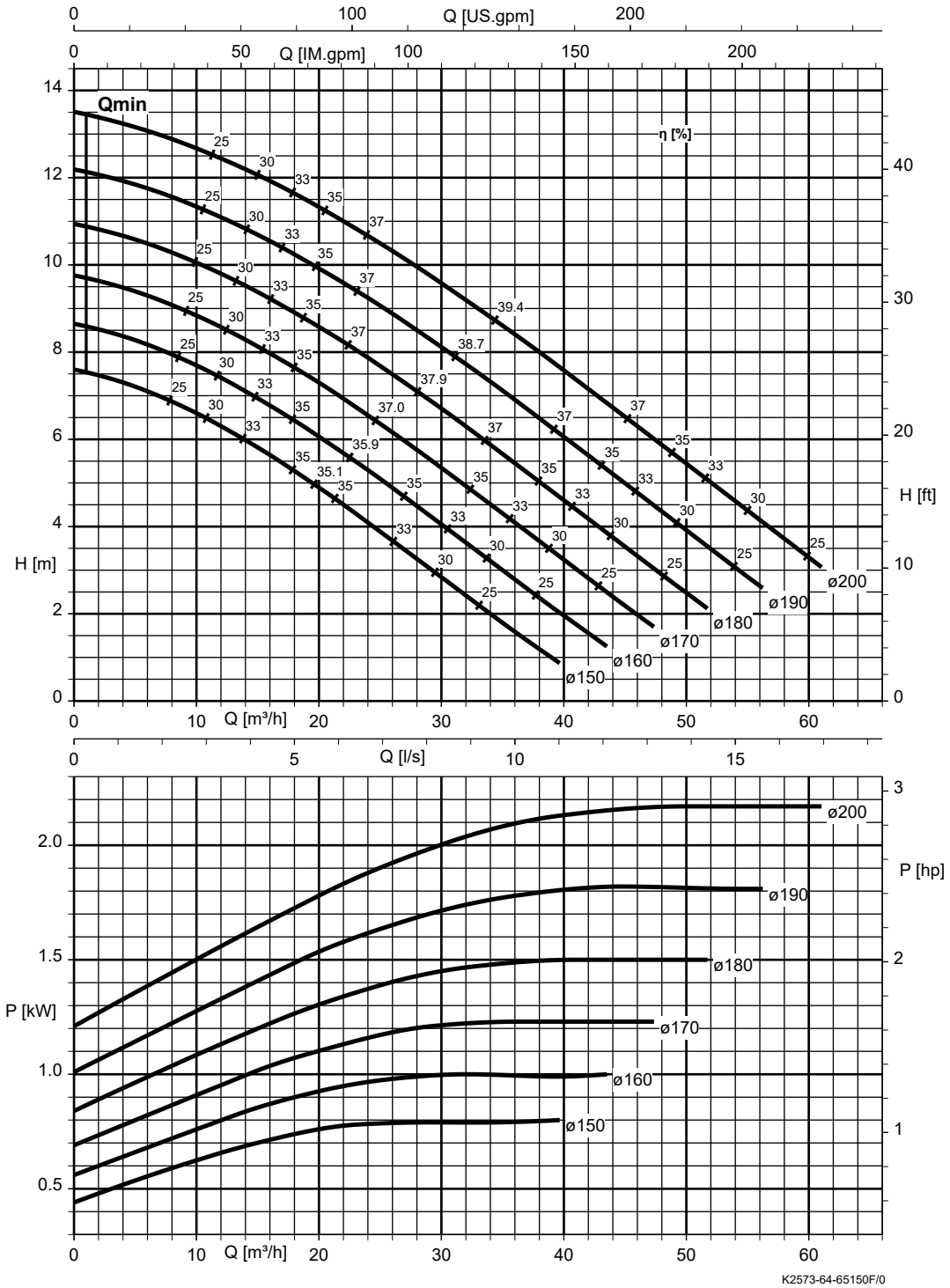
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-220/046C2	140	L	6,80	9,12	5,14	6,89	8,9/5,1	DOL / star-delta
F080-220/051F2	140	L	5,10	6,84	5,93	7,95	8,7	DOL
F080-220/055C2	140	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL / star-delta

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-220/068F2	140	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F080-220/084F2	140	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
F080-220/055C2	150	X	5,50	7,38	6,14	8,23	10,5/6,0	DOL
F080-220/068F2	150	L	4,59	6,16	7,79	10,45	11,7/6,8	DOL / star-delta
F080-220/084F2	150	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
F080-220/084F2	160	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta
F080-220/084F2	170	X	8,40	11,26	9,56	12,82	14,4/8,3	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 65-150, n = 1750 rpm



Free passage = 2 $^{9}/_{16}$ in [65 mm]

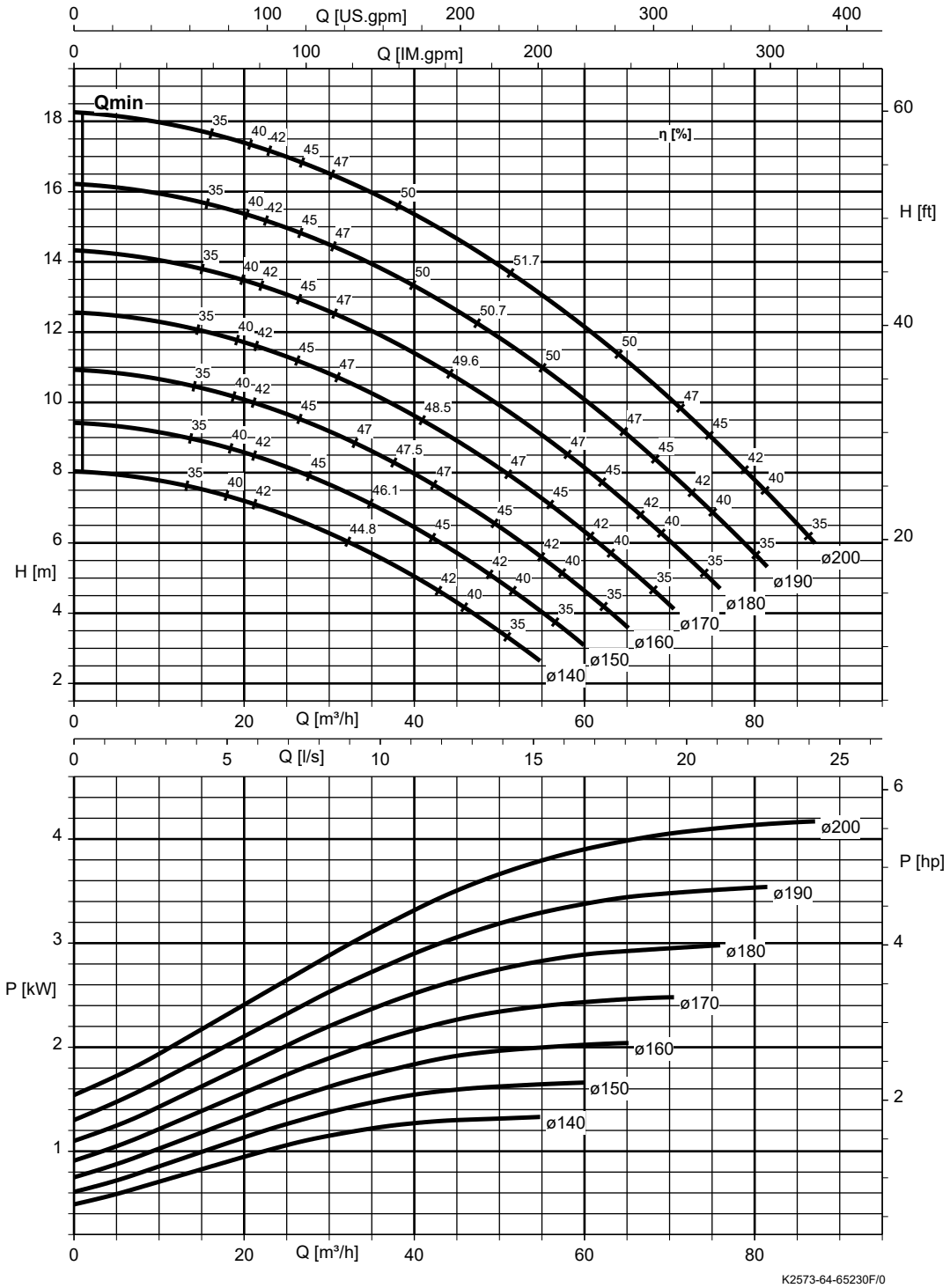
Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-150/015C4	150	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-150/017F4	150	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-150/018C4	150	L	1,84	2,47	2,09	2,80	4,3	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-150/023F4	150	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	150	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/015C4	160	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-150/017F4	160	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-150/018C4	160	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-150/023F4	160	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/015C4	170	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-150/017F4	170	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-150/018C4	170	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-150/023F4	170	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	170	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/015C4	180	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-150/017F4	180	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-150/018C4	180	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-150/023F4	180	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	180	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/017F4	190	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-150/018C4	190	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-150/023F4	190	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	190	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/018C4	200	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-150/023F4	200	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-150/036F4	200	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-150/043F4	200	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta

Amarex F-max 65-230, n = 1750 rpm



Free passage = 2 $^{9}/_{16}$ in [65 mm]

Motor assignment

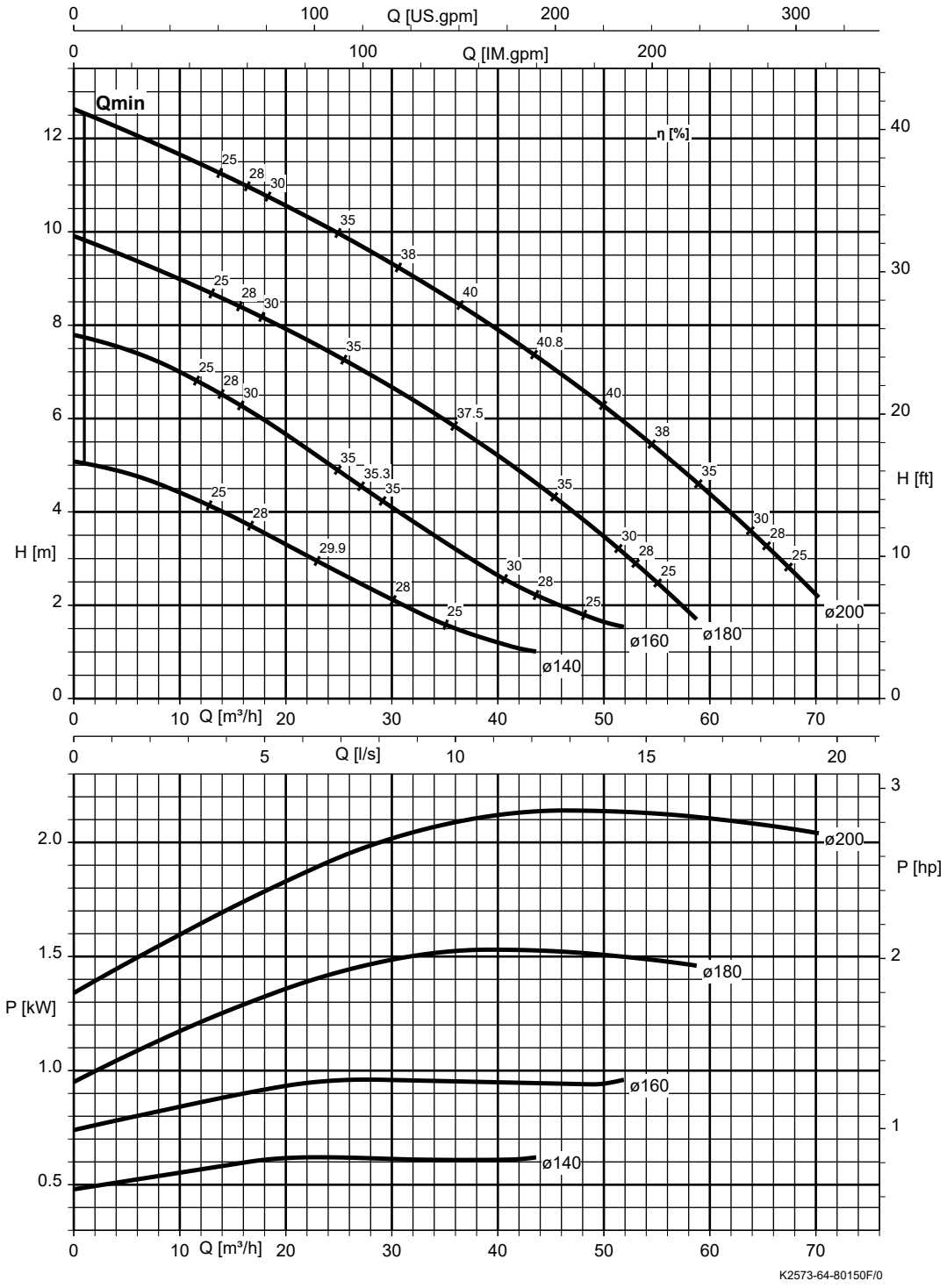
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-230/015C4	140	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-230/017F4	140	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-230/018C4	140	L	1,84	2,47	2,09	2,80	4,3	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F065-230/023F4	140	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-230/036F4	140	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/015C4	150	M	1,53	2,05	1,76	2,36	3,3	DOL
F065-230/017F4	150	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-230/018C4	150	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-230/023F4	150	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-230/036F4	150	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/017F4	160	M	1,70	2,28	2,06	2,76	3,2	DOL
F065-230/018C4	160	L	1,84	2,47	2,09	2,80	4,3	DOL
F065-230/023F4	160	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-230/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/023F4	170	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-230/036F4	170	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/043F4	170	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F065-230/023F4	180	M	2,30	3,08	2,77	3,71	4,3	DOL
F065-230/036F4	180	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/043F4	180	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F065-230/036F4	190	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/043F4	190	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F065-230/036F4	200	L	3,60	4,83	4,22	5,66	6,5	DOL
F065-230/043F4	200	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 80-150, n = 1750 rpm



Free passage = 3 $^{1}/_{8}$″ [80 mm]

Motor assignment

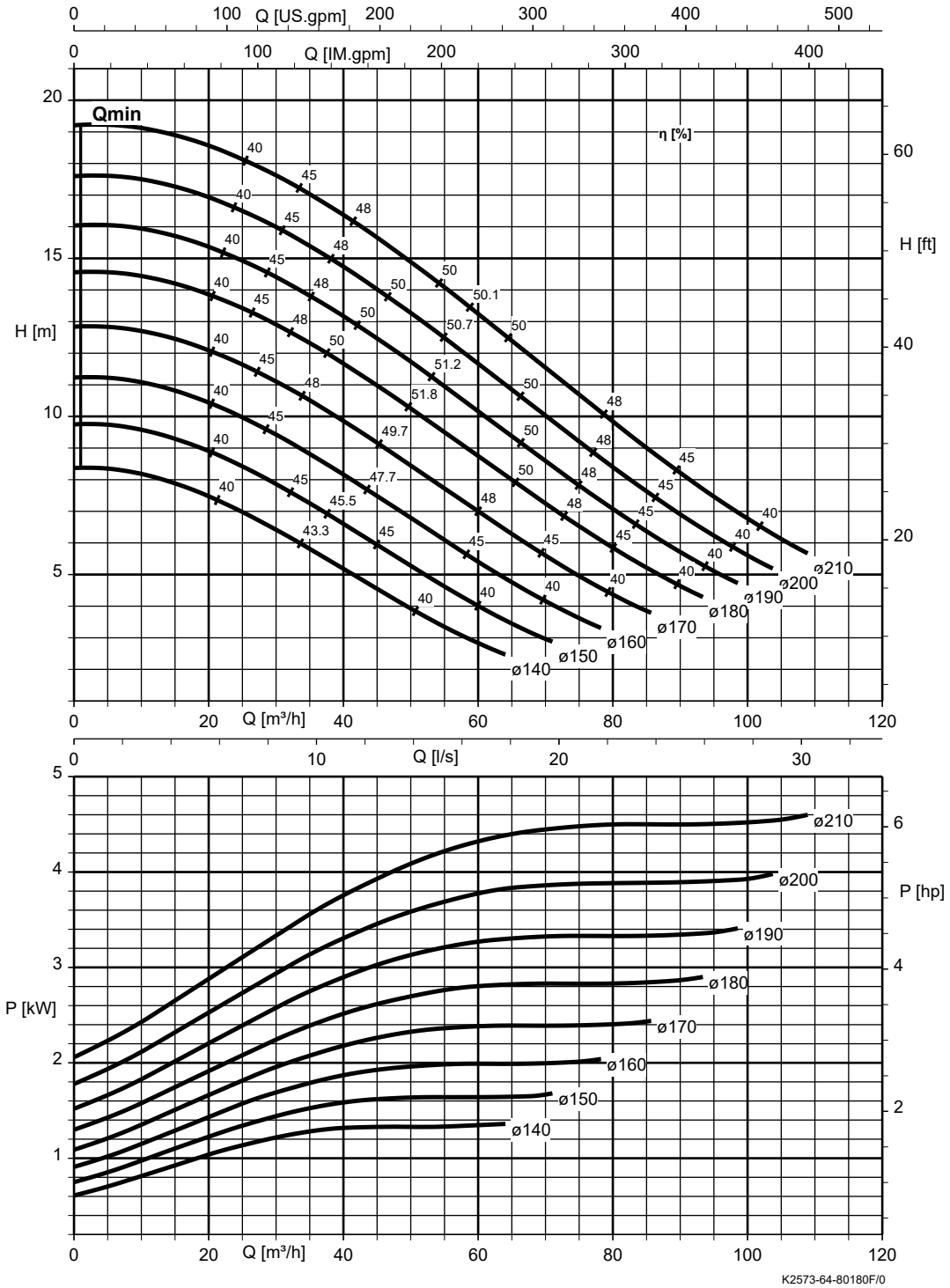
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-150/015C4	140	M	1,53	2,05	1,76	2,36	3,3	DOL
F080-150/017F4	140	M	1,70	2,28	2,06	2,76	3,2	DOL
F080-150/018C4	140	L	1,84	2,47	2,09	2,80	4,3	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-150/023F4	140	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-150/036F4	140	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-150/045C4	140	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-150/015C4	160	M	1,53	2,05	1,76	2,36	3,3	DOL
F080-150/017F4	160	M	1,70	2,28	2,06	2,76	3,2	DOL
F080-150/018C4	160	L	1,84	2,47	2,09	2,80	4,3	DOL
F080-150/023F4	160	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-150/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-150/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-150/015C4	180	M	1,53	2,05	1,76	2,36	3,3	DOL
F080-150/017F4	180	M	1,70	2,28	2,06	2,76	3,2	DOL
F080-150/018C4	180	L	1,84	2,47	2,09	2,80	4,3	DOL
F080-150/023F4	180	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-150/036F4	180	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-150/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-150/023F4	200	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-150/036F4	200	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-150/043F4	200	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-150/045C4	200	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 80-180, n = 1750 rpm



Free passage = 3 $^{1}/_{8}$″ [80 mm]

Motor assignment

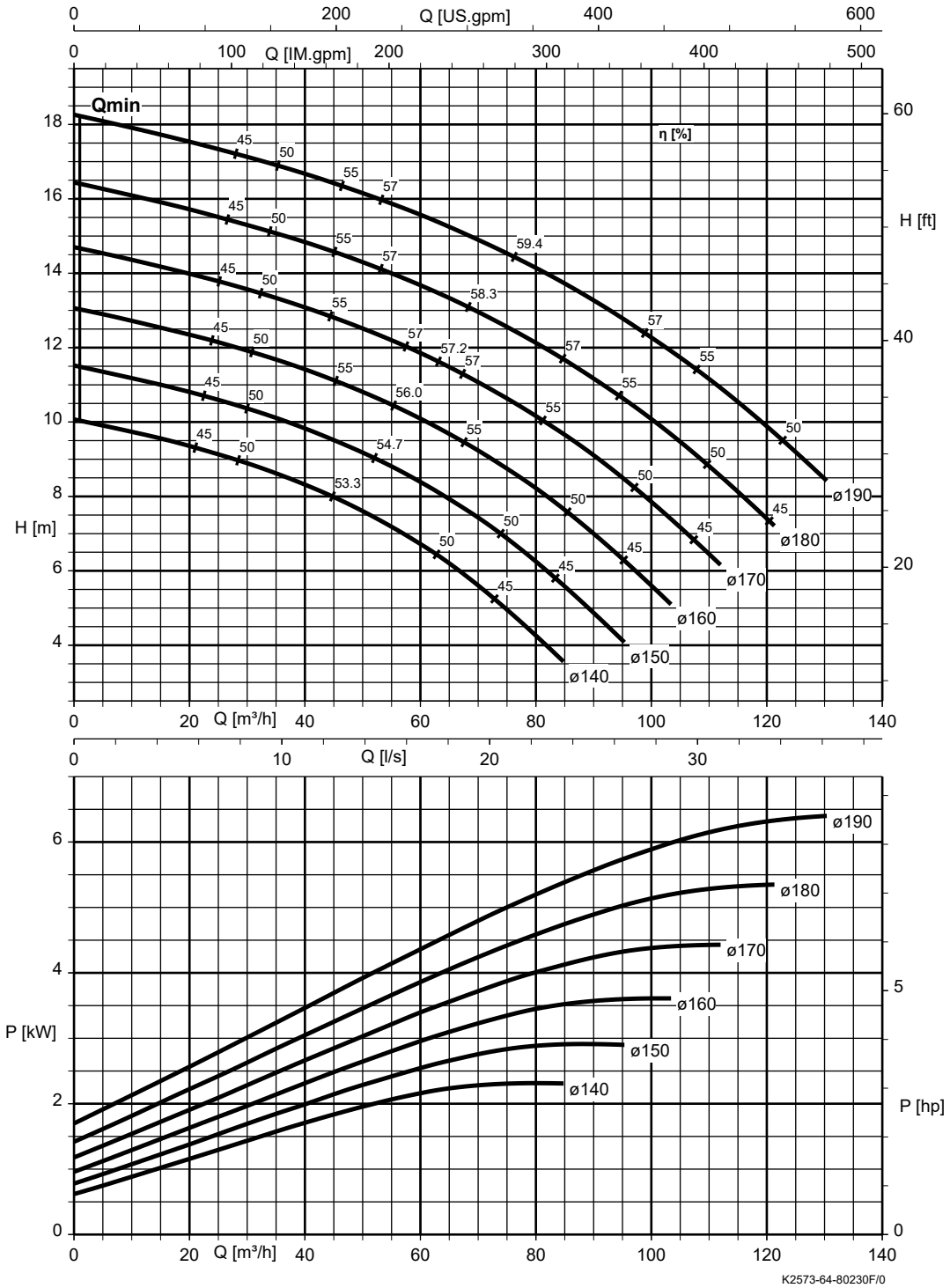
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-180/015C4	140	M	1,53	2,05	1,76	2,36	3,3	DOL
F080-180/018C4	140	L	1,84	2,47	2,09	2,80	4,3	DOL
F080-180/023F4	140	M	2,30	3,08	2,77	3,71	4,3	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-180/036F4	140	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	140	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	140	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/018C4	150	L	1,84	2,47	2,09	2,80	4,3	DOL
F080-180/023F4	150	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-180/036F4	150	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	150	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	150	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/023F4	160	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-180/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	160	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/023F4	170	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-180/036F4	170	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	170	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	170	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/036F4	180	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	180	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-180/036F4	190	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	190	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	190	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/065F4	190	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-180/036F4	200	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-180/043F4	200	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	200	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/065F4	200	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-180/077F4	200	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F080-180/043F4	210	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-180/045C4	210	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-180/065F4	210	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-180/077F4	210	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 80-230, n = 1750 rpm



Free passage = 3 $^{1}/_{8}$″ [80 mm]

Motor assignment

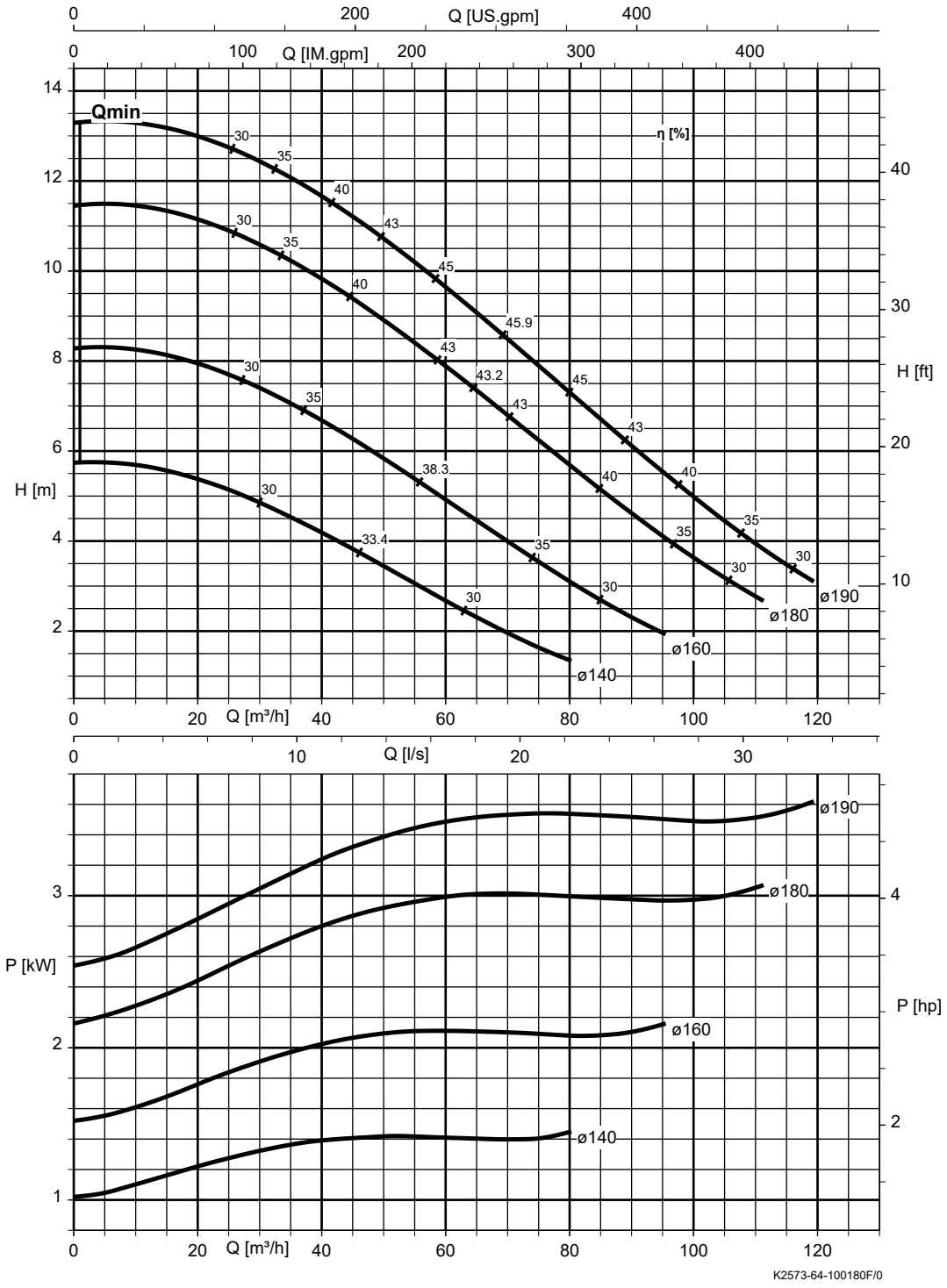
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-230/017F4	140	M	1,70	2,28	2,06	2,76	3,2	DOL
F080-230/023F4	140	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-230/036F4	140	L	3,60	4,83	4,22	5,66	6,5	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F080-230/045C4	140	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/023F4	150	M	2,30	3,08	2,77	3,71	4,3	DOL
F080-230/036F4	150	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-230/043F4	150	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-230/045C4	150	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-230/043F4	160	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-230/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/065F4	160	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-230/036F4	170	L	3,60	4,83	4,22	5,66	6,5	DOL
F080-230/043F4	170	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-230/045C4	170	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/065F4	170	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-230/043F4	180	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-230/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-230/077F4	180	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F080-230/043F4	190	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F080-230/045C4	190	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F080-230/065F4	190	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F080-230/077F4	190	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 100-180, n = 1750 rpm



Free passage = 3 $^{15}/_{16}$ in [100 mm]

Motor assignment

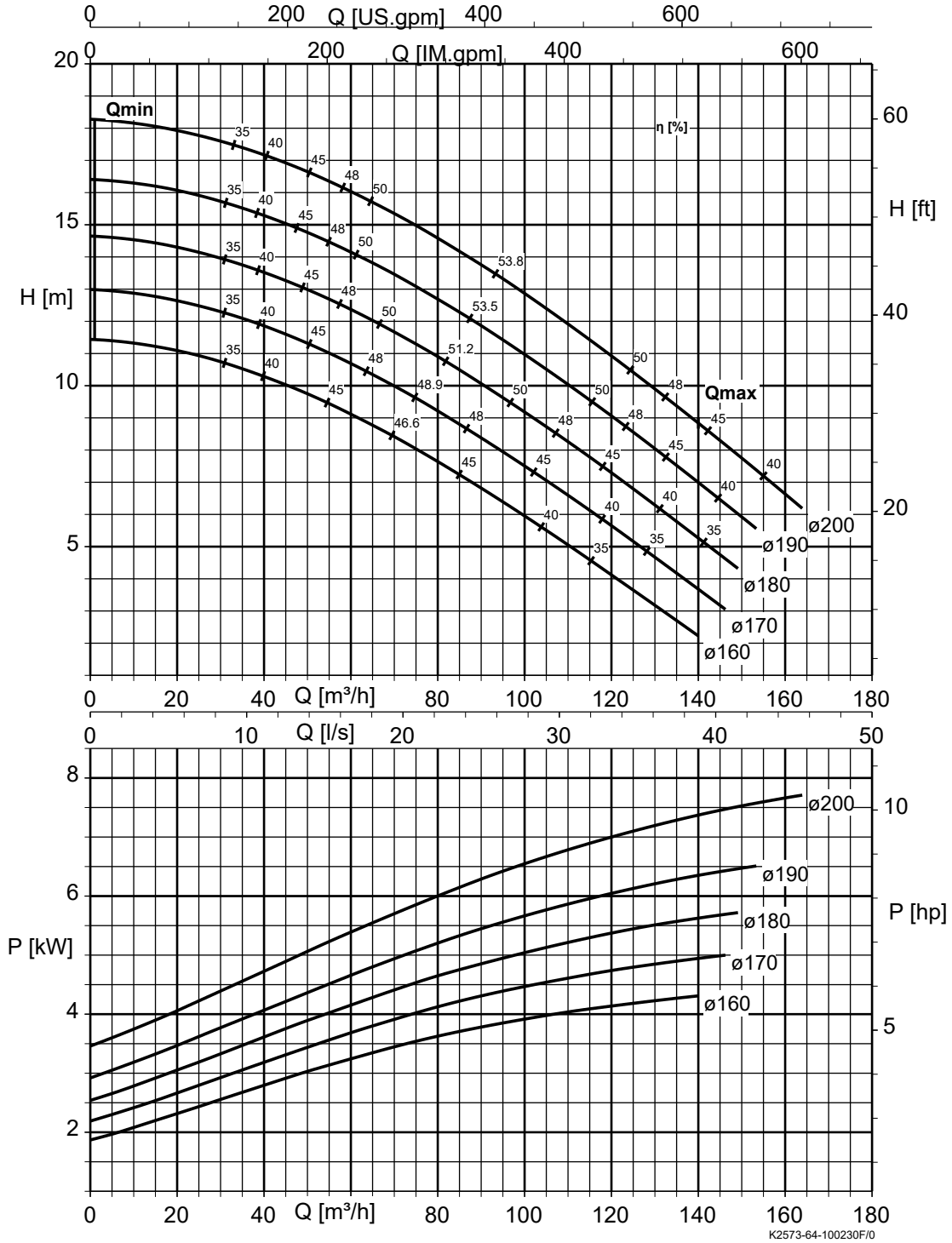
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F100-180/015C4	140	M	1,53	2,05	1,76	2,36	3,3	DOL
F100-180/017F4	140	M	1,70	2,28	2,06	2,76	3,2	DOL
F100-180/018C4	140	L	1,84	2,47	2,09	2,80	4,3	DOL

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F100-180/023F4	140	M	2,30	3,08	2,77	3,71	4,3	DOL
F100-180/036F4	140	L	3,60	4,83	4,22	5,66	6,5	DOL
F100-180/045C4	140	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-180/023F4	160	M	2,30	3,08	2,77	3,71	4,3	DOL
F100-180/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F100-180/043F4	160	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-180/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-180/036F4	180	L	3,60	4,83	4,22	5,66	6,5	DOL
F100-180/043F4	180	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-180/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-180/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-180/036F4	190	L	3,60	4,83	4,22	5,66	6,5	DOL
F100-180/043F4	190	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-180/045C4	190	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-180/065F4	190	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 100-230, n=1750 rpm



Free passage = 3 $^{15}/_{16}$ in [100 mm]

Motor assignment

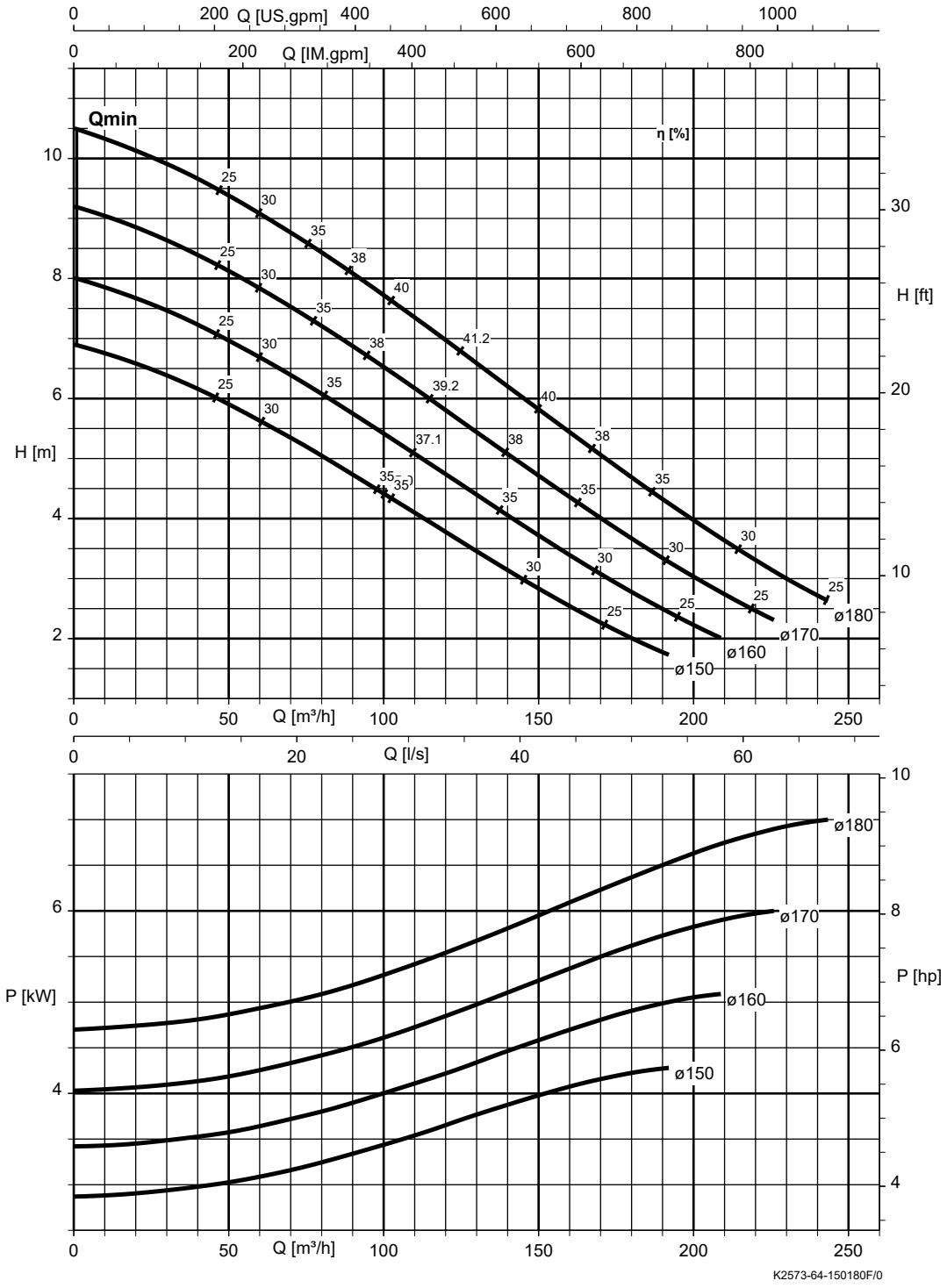
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F100-230/036F4	160	L	3,60	4,83	4,22	5,66	6,5	DOL
F100-230/043F4	160	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-230/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F100-230/065F4	160	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-230/043F4	170	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-230/045C4	170	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-230/065F4	170	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-230/077F4	170	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F100-230/043F4	180	L	4,35	5,83	5,54	7,43	9,5/5,5	DOL / star-delta
F100-230/045C4	180	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F100-230/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-230/077F4	180	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F100-230/065F4	190	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-230/077F4	190	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F100-230/065F4	200	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F100-230/077F4	200	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 150-180, n = 1750 rpm



Free passage = 3 $^{15}/_{16}$ in [100 mm]

Motor assignment

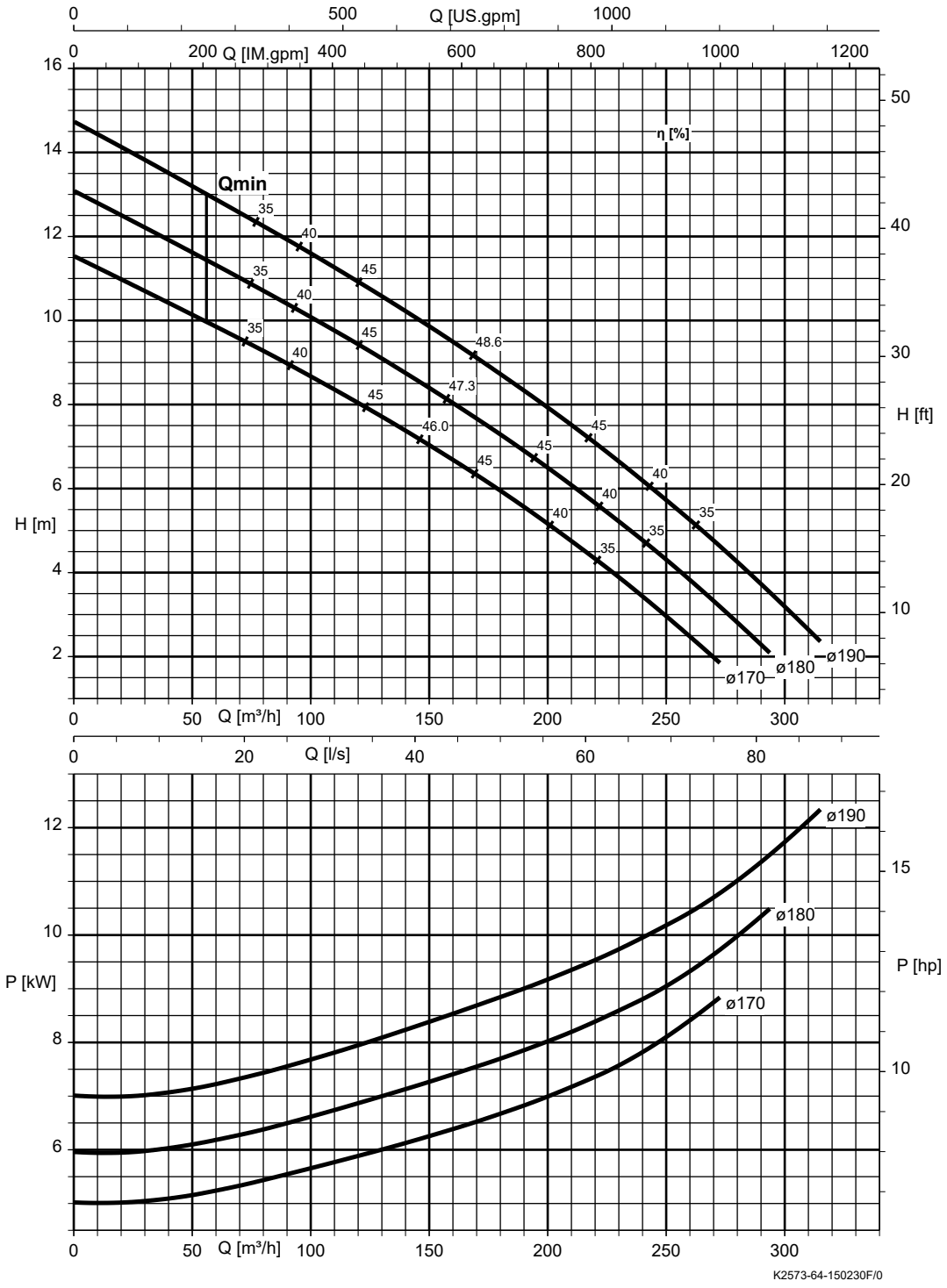
Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F150-180/045C4	150	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F150-180/065F4	150	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F150-180/077F4	150	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F150-180/045C4	160	X	4,50	6,03	5,03	6,75	9,7/5,6	DOL / star-delta
F150-180/065F4	160	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F150-180/077F4	160	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F150-180/065F4	170	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F150-180/077F4	170	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F150-180/065F4	180	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F150-180/077F4	180	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

2573.460/01-EN-US

Amarex F-max 150-230, n = 1750 rpm



Free passage = 3 $^{15}/_{16}$ in [100 mm]

Motor assignment

Size	Impeller diameter	Motor size	P_2		P_1		I_N	Starting method
	[mm]		[kW]	[HP]	[kW]	[HP]	[A]	
F150-230/065F4	170	X	6,50	8,72	7,59	10,18	11,4/6,6	DOL / star-delta
F150-230/077F4	170	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F150-230/077F4	180	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta
F150-230/077F4	190	X	7,70	10,33	8,84	11,85	13,6/7,9	DOL / star-delta

1/27/2021

2573.460/01-EN-US

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