

In-line Pump

Etaline

Variable Speed System

Characteristic Curves Booklet



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Characteristic Curves Booklet Etaline

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Heating / Air-conditioning / Ventilation

In-line Pumps with Variable Speed System

Etaline



General

Test class

Characteristic curves to ISO 9906 Class 3B

NPSH values

The NPSH values indicated in the characteristic curves correspond to a head drop of 3 %.

NPSH values in part-load conditions

NPSH values for flow rates below $Q = 0.3 \times Q_{opt}$ can only be measured with intense technical efforts. Evidence of NPSH values in the part-load range cannot be provided.

Density of the fluid handled

The indicated heads and performance data apply to pumped fluids with a density $\rho = 1.0 \text{ kg/dm}^3$ and a kinematic viscosity of up to $20 \text{ mm}^2/\text{s}$ max. If the density $\neq 1.0$, the performance data must be multiplied by ρ . For a viscosity $> 20 \text{ mm}^2/\text{s}$ the corresponding data for cold water has to be calculated and the impact on the pump's performance has to be determined.

Friction loss

For some design variants (reinforced bearings, specific shaft seals) friction losses must be considered and indicated as additional power requirement in the data sheet.

Speed

Speed curves are documented up to the maximum speed. The motor power required for the operating range must therefore always be checked against the pump/motor combinations table in the relevant type series booklet. The maximum speeds depend on the impeller/shaft material combination and the limit speeds of the PumpDrive variable speed system.

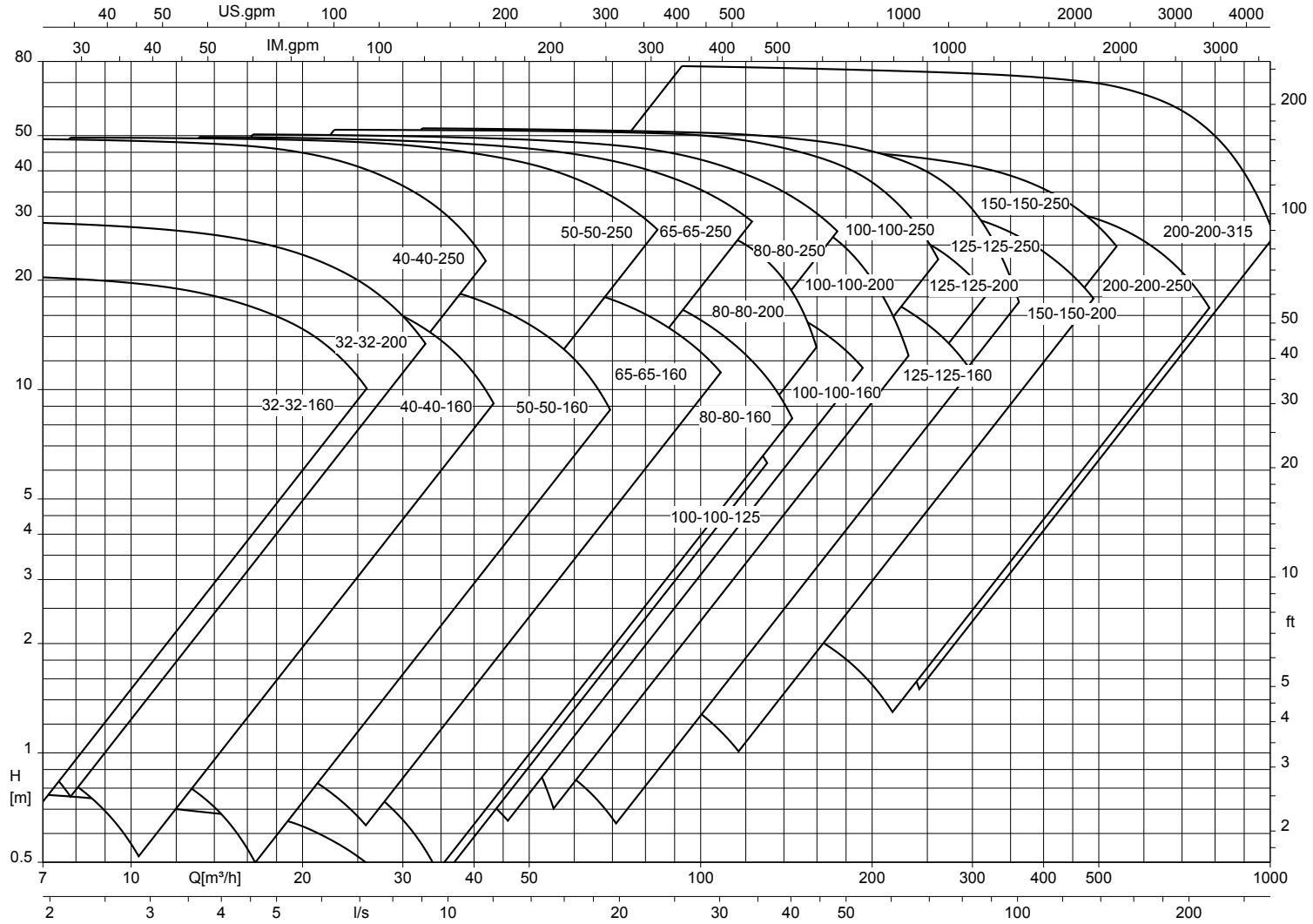
Overview of sizes

Overview of sizes

Etaline	Speed range	
	Up to 2100 rpm	From 2100 rpm
032-032-160	(⇒ Page 8)	(⇒ Page 9)
032-032-200	(⇒ Page 10)	(⇒ Page 11)
040-040-160	(⇒ Page 12)	(⇒ Page 13)
040-040-250	(⇒ Page 14)	(⇒ Page 15)
050-050-160	(⇒ Page 16)	(⇒ Page 17)
050-050-250	(⇒ Page 18)	(⇒ Page 19)
065-065-160	(⇒ Page 20)	(⇒ Page 21)
065-065-250	(⇒ Page 22)	(⇒ Page 23)
080-080-160	(⇒ Page 24)	(⇒ Page 25)
080-080-200	(⇒ Page 26)	(⇒ Page 27)
080-080-250	(⇒ Page 28)	-
100-100-125	(⇒ Page 29)	(⇒ Page 30)
100-100-160	(⇒ Page 31)	(⇒ Page 32)
100-100-200	(⇒ Page 33)	-
100-100-250	(⇒ Page 34)	-
125-125-160	(⇒ Page 35)	(⇒ Page 36)
125-125-200	(⇒ Page 37)	(⇒ Page 38)
125-125-250	(⇒ Page 39)	-
150-150-200	(⇒ Page 40)	-
150-150-250	(⇒ Page 41)	-
200-200-250	(⇒ Page 42)	-
200-200-315	(⇒ Page 43)	-

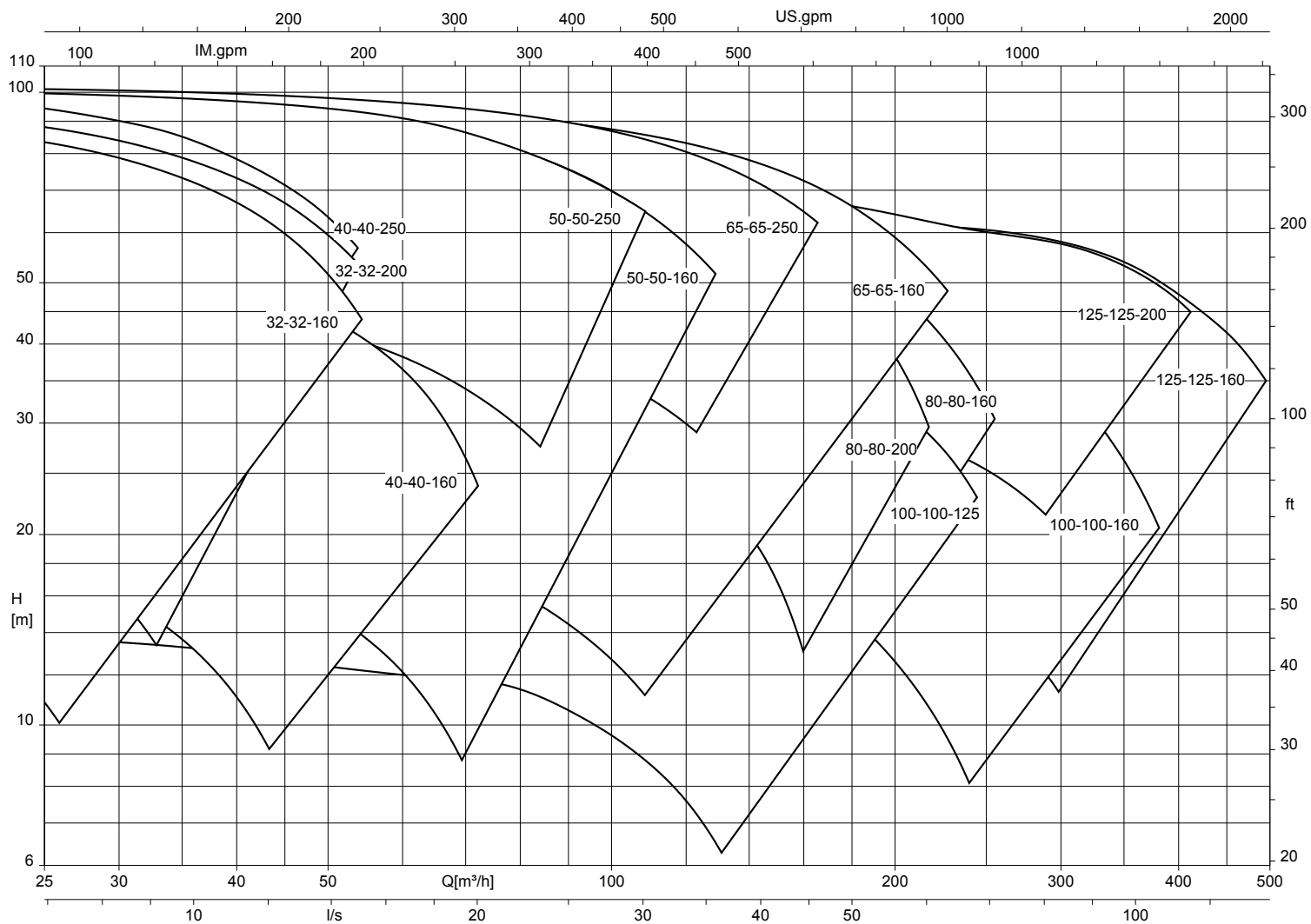
Selection charts

Etaline, speed range up to 2100 rpm



Speed curves are documented up to the maximum speed. The motor power required for the operating range must therefore always be checked against the pump/motor combinations table in the relevant type series booklet.

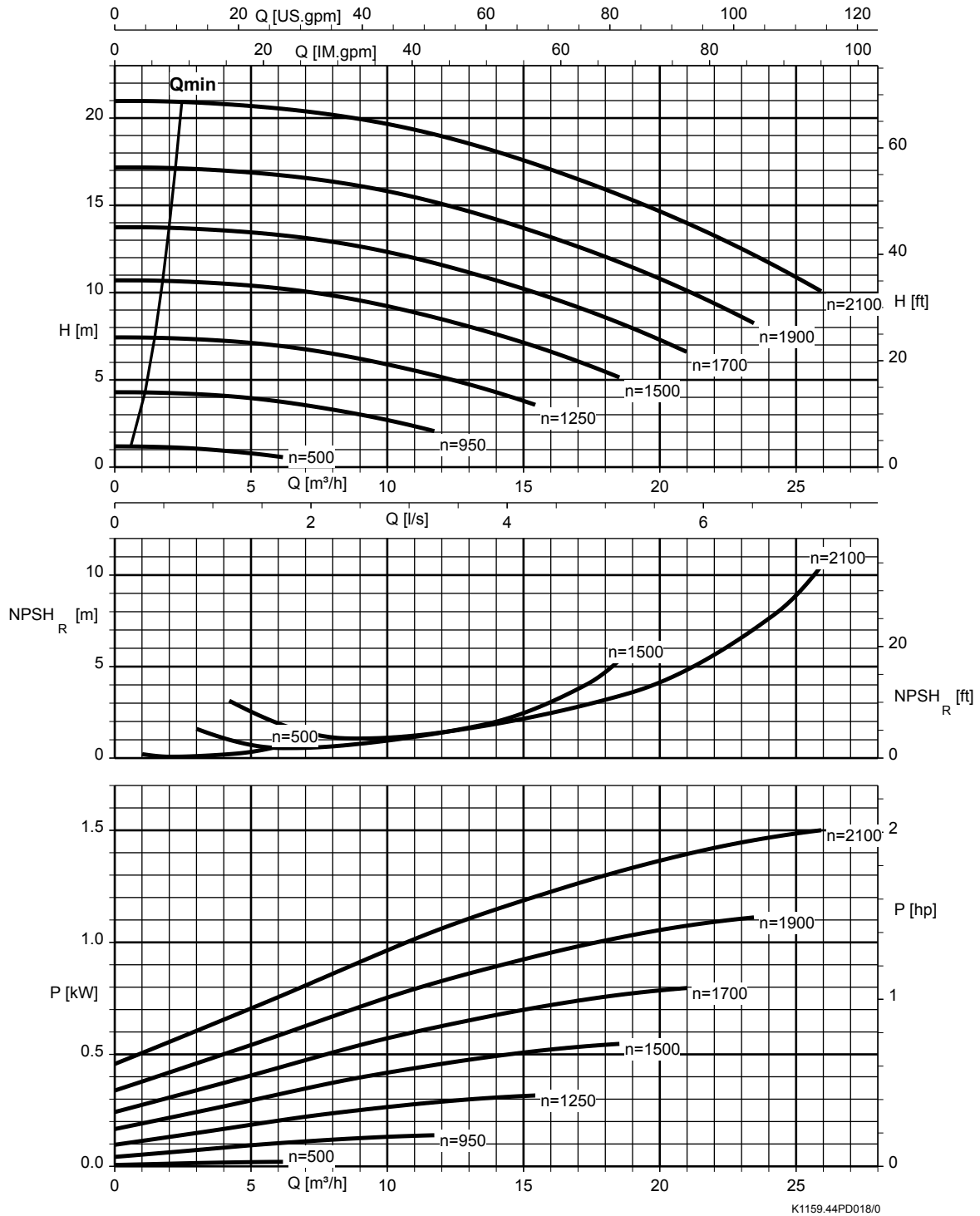
Etaline, speed range from 2100 rpm



Speed curves are documented up to the maximum speed. The motor power required for the operating range must therefore always be checked against the pump/motor combinations table in the relevant type series booklet.

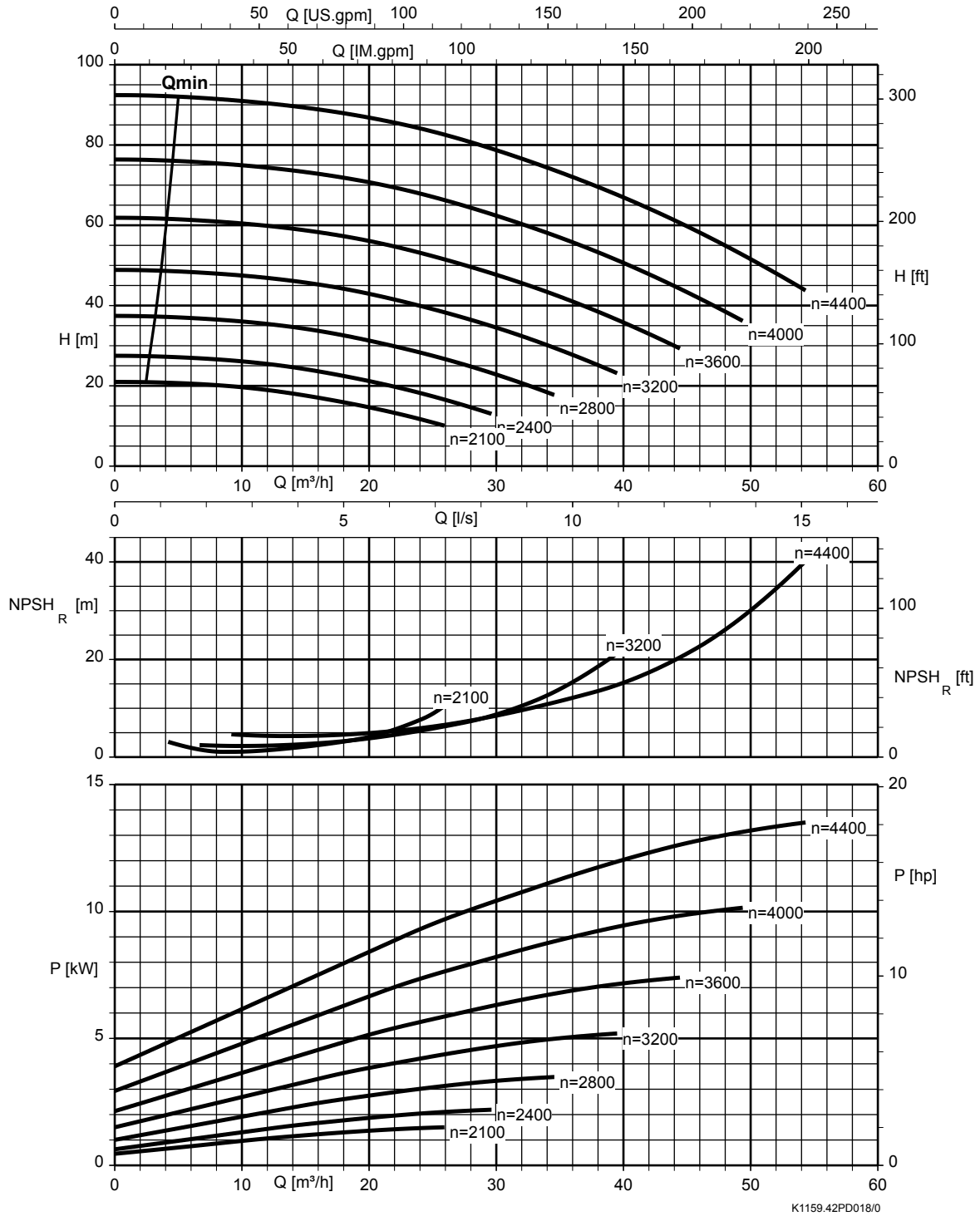
Characteristic curves

Etaline 032-032-160, up to 2100 rpm



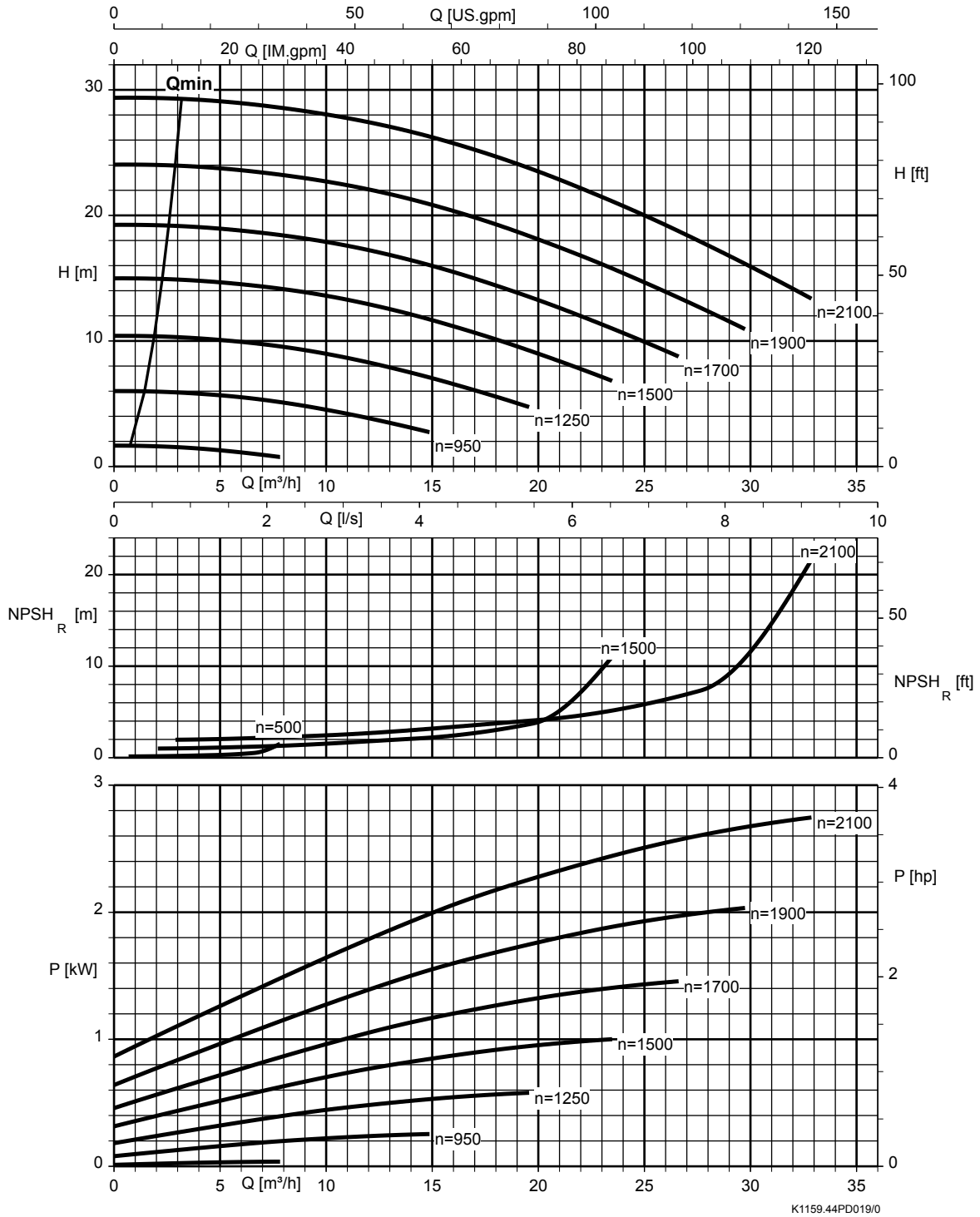
Impeller diameter: 170 mm

Etaline 032-032-160, from 2100 rpm



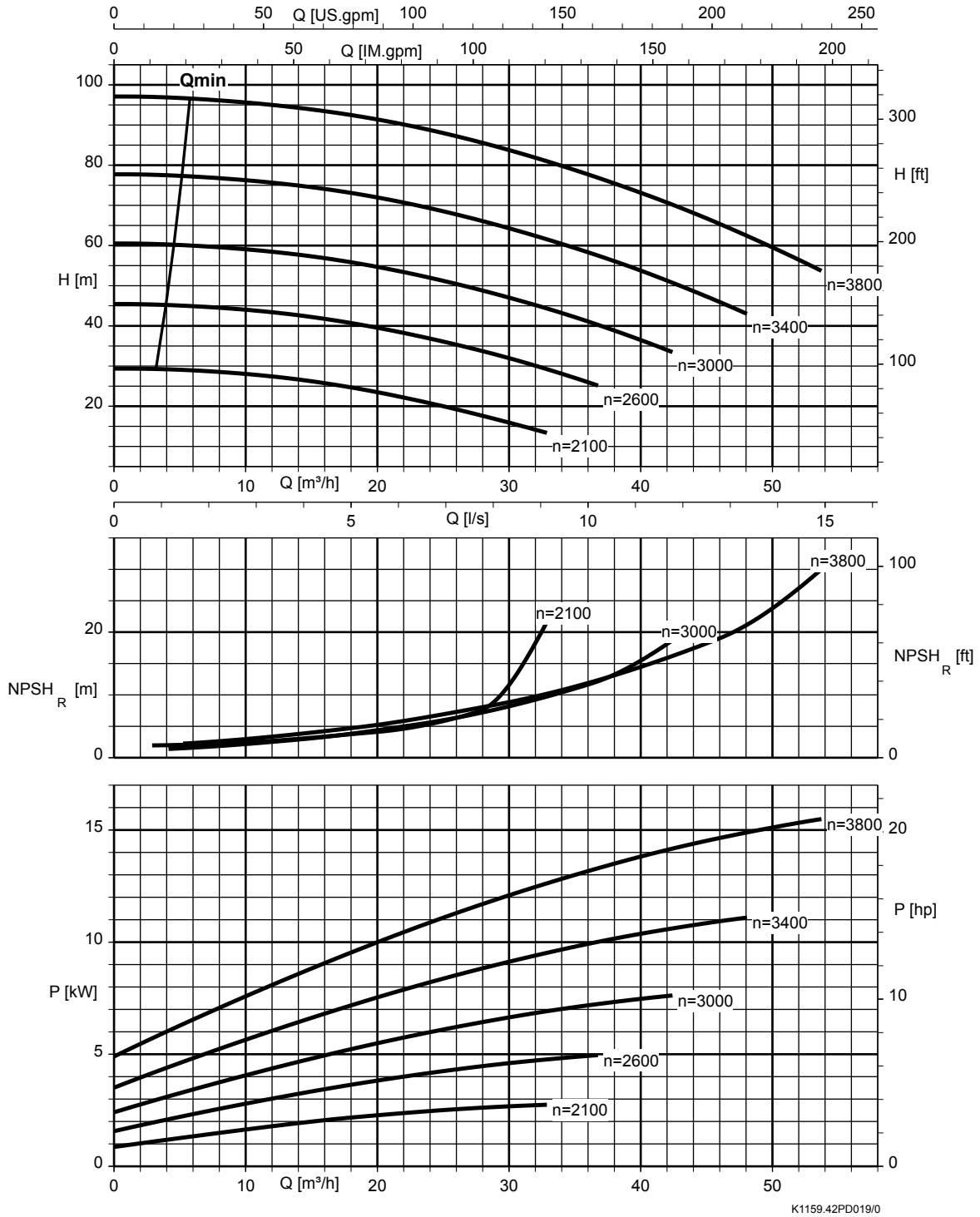
Impeller diameter: 170 mm

Etaline 032-032-200, up to 2100 rpm



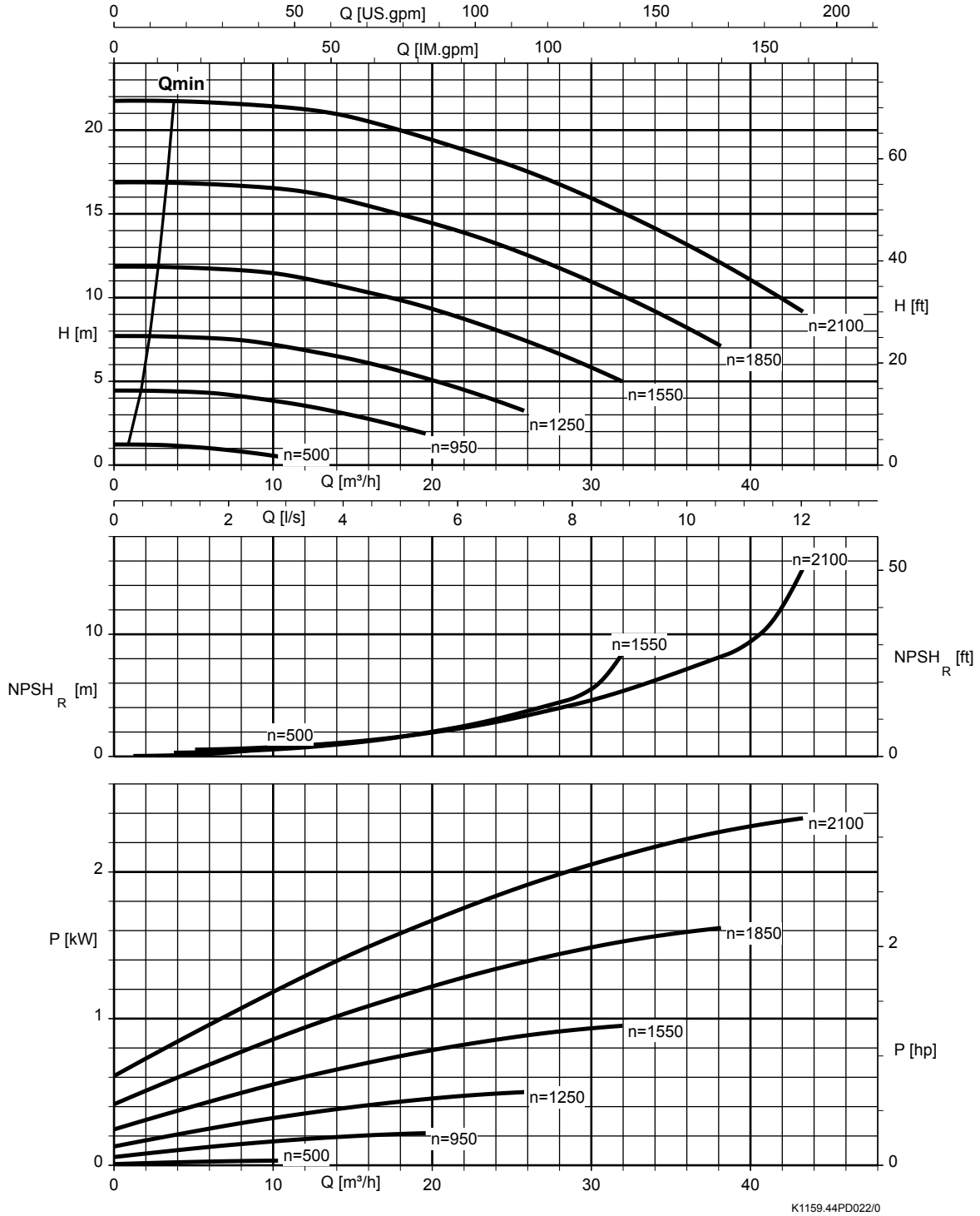
Impeller diameter: 204 mm

Etaline 032-032-200, from 2100 rpm



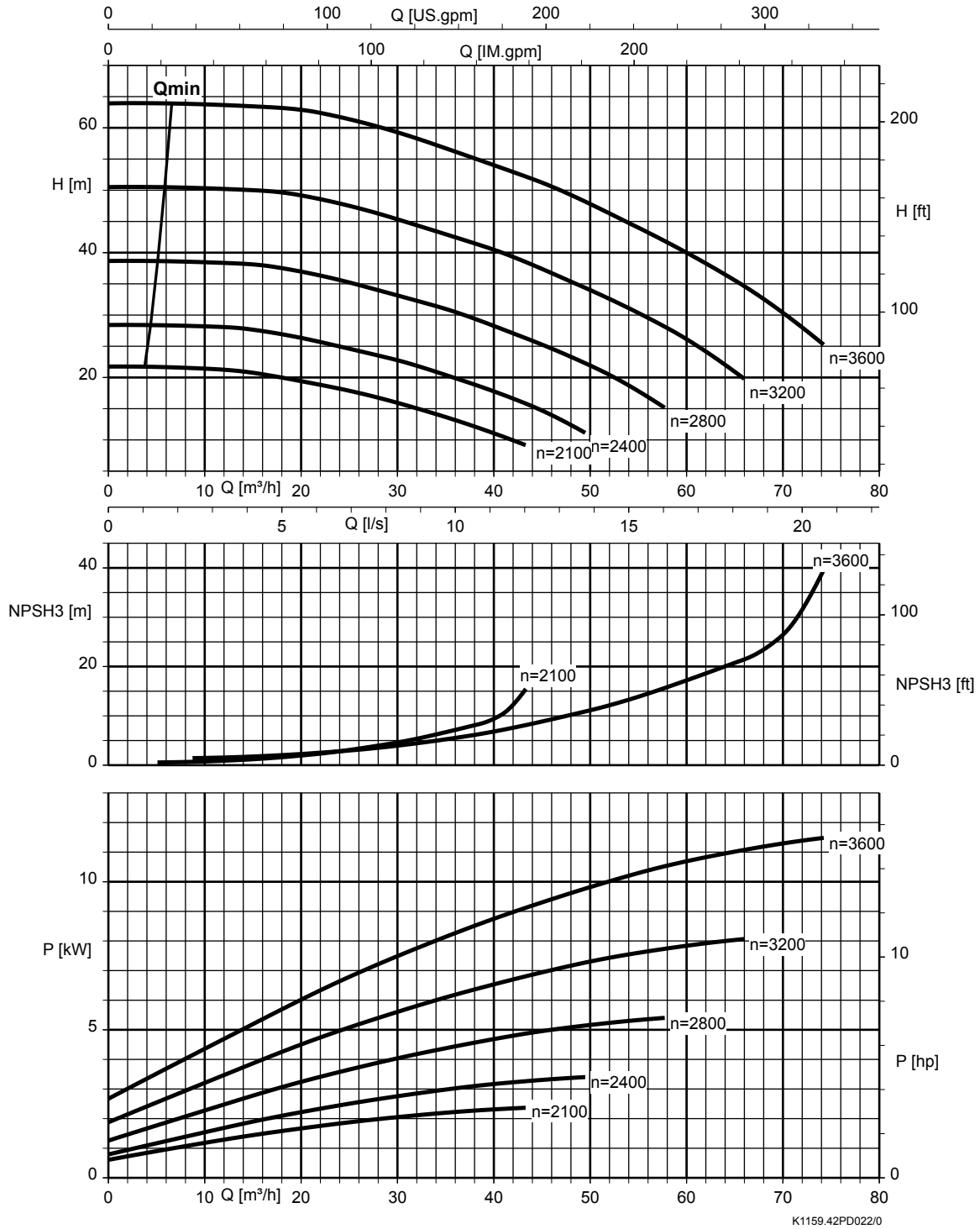
Impeller diameter: 204 mm

Etaline 040-040-160, up to 2100 rpm



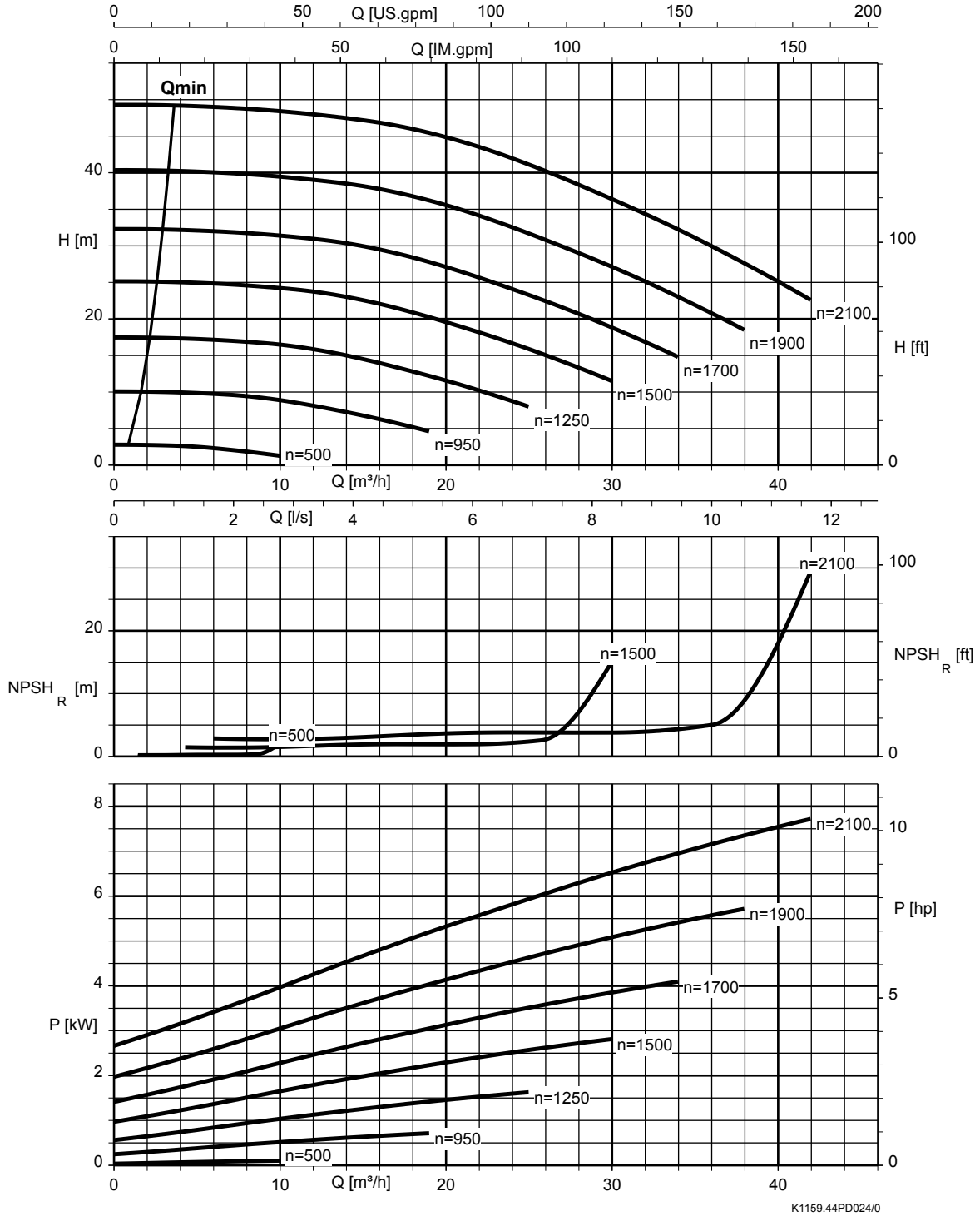
Impeller diameter: 174 mm

Etaline 040-040-160, from 2100 rpm



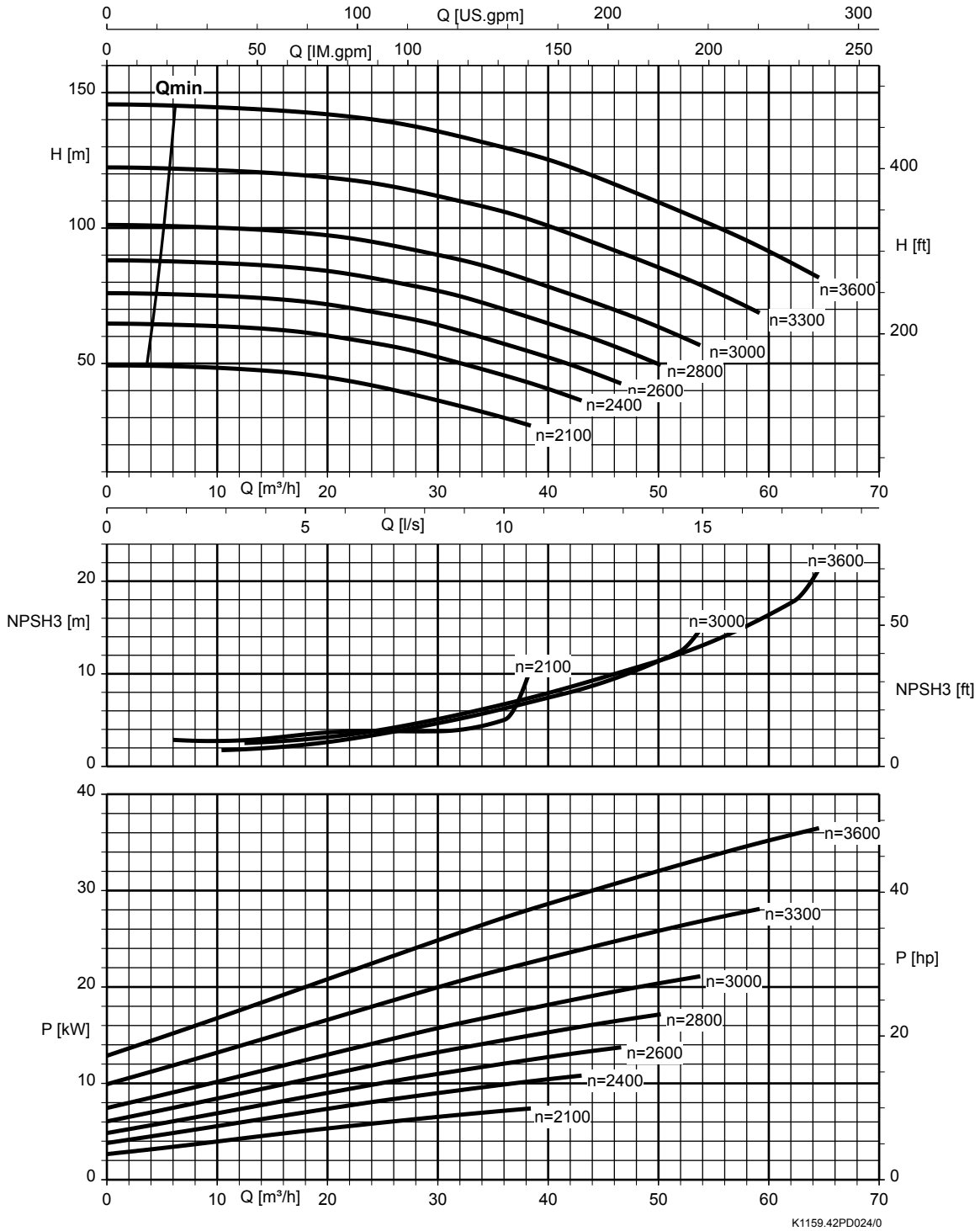
Impeller diameter: 174 mm

Etaline 040-040-250, up to 2100 rpm



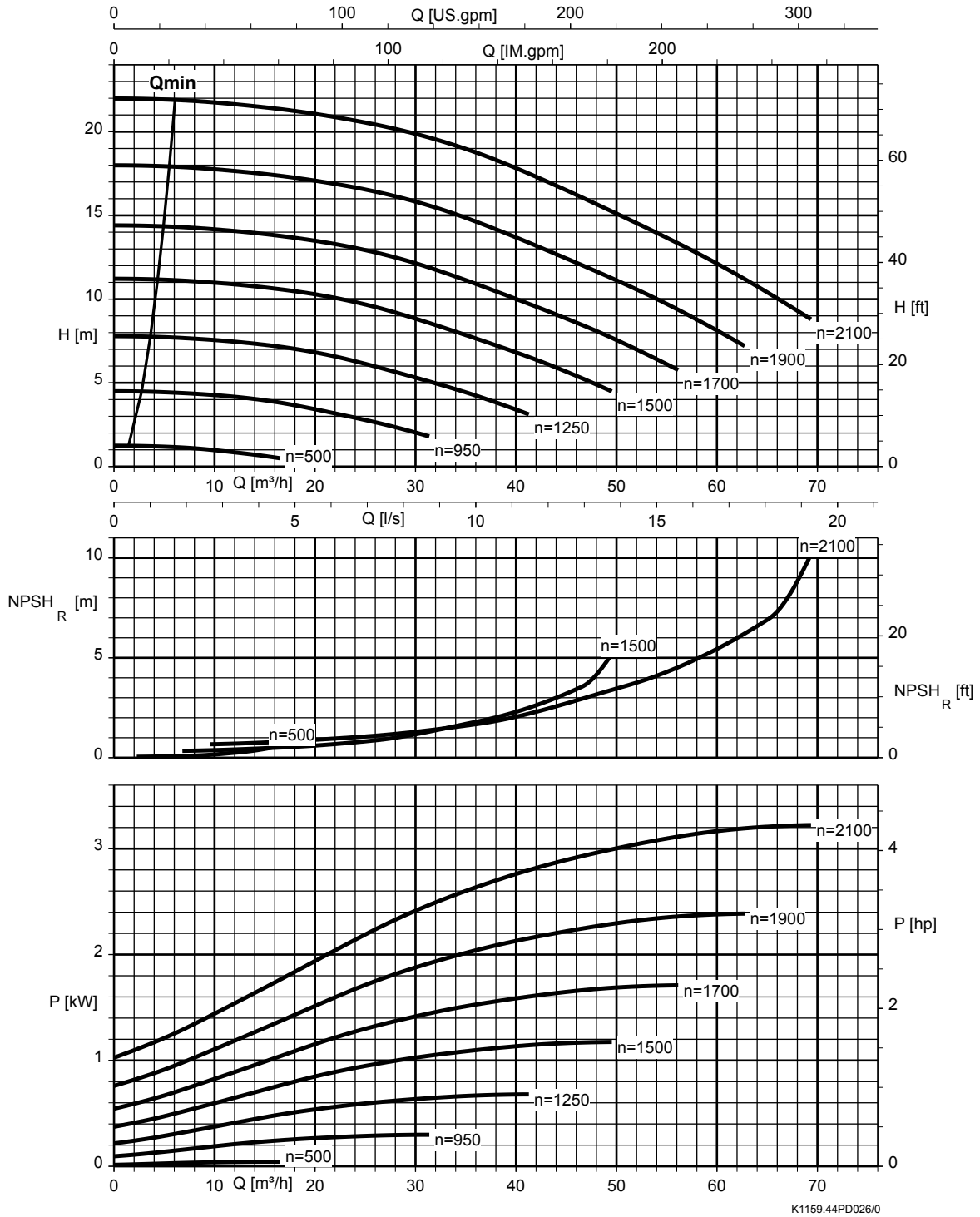
Impeller diameter: 261 mm

Etaline 040-040-250, from 2100 rpm



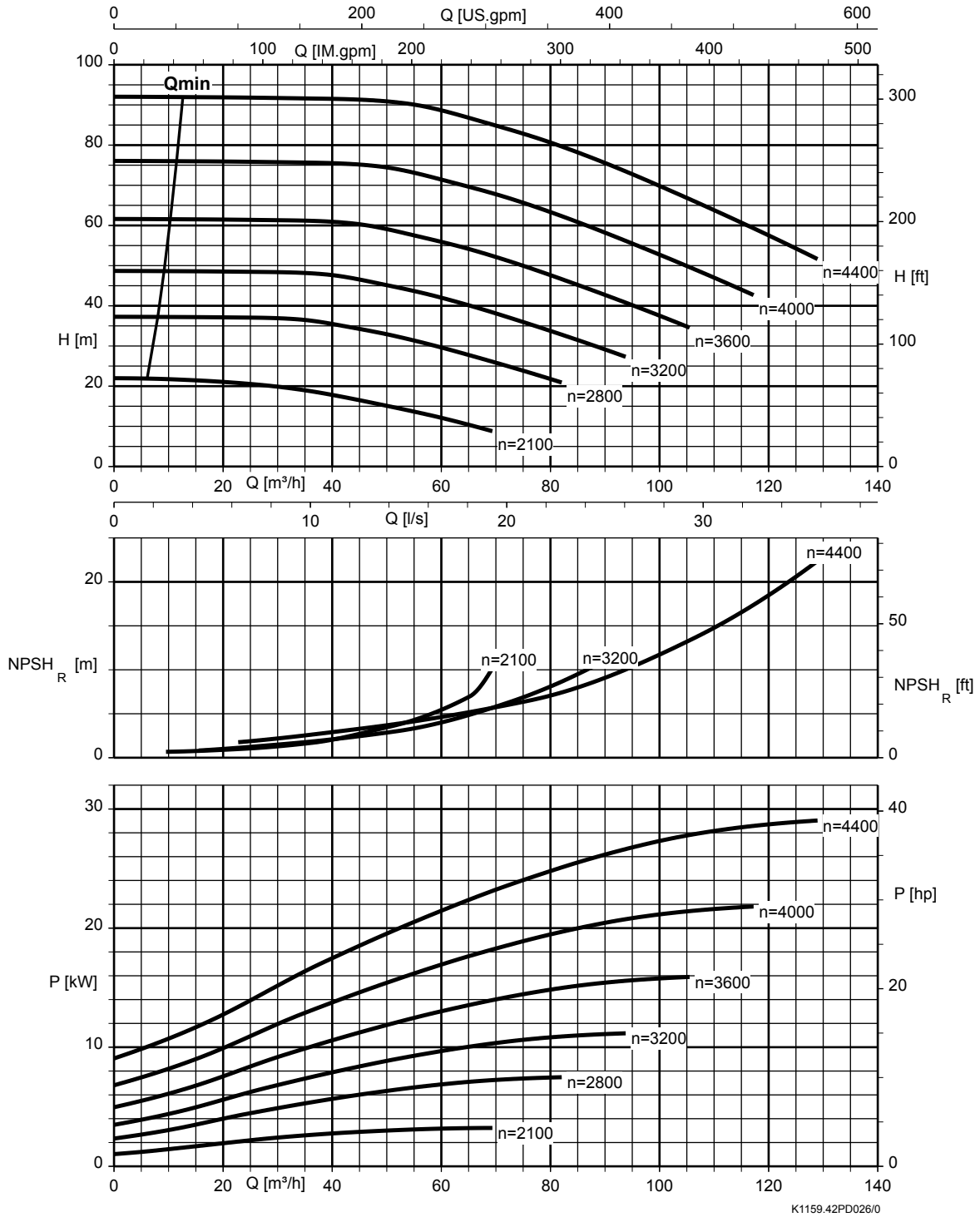
Impeller diameter: 261 mm

Etaline 050-050-160, up to 2100 rpm



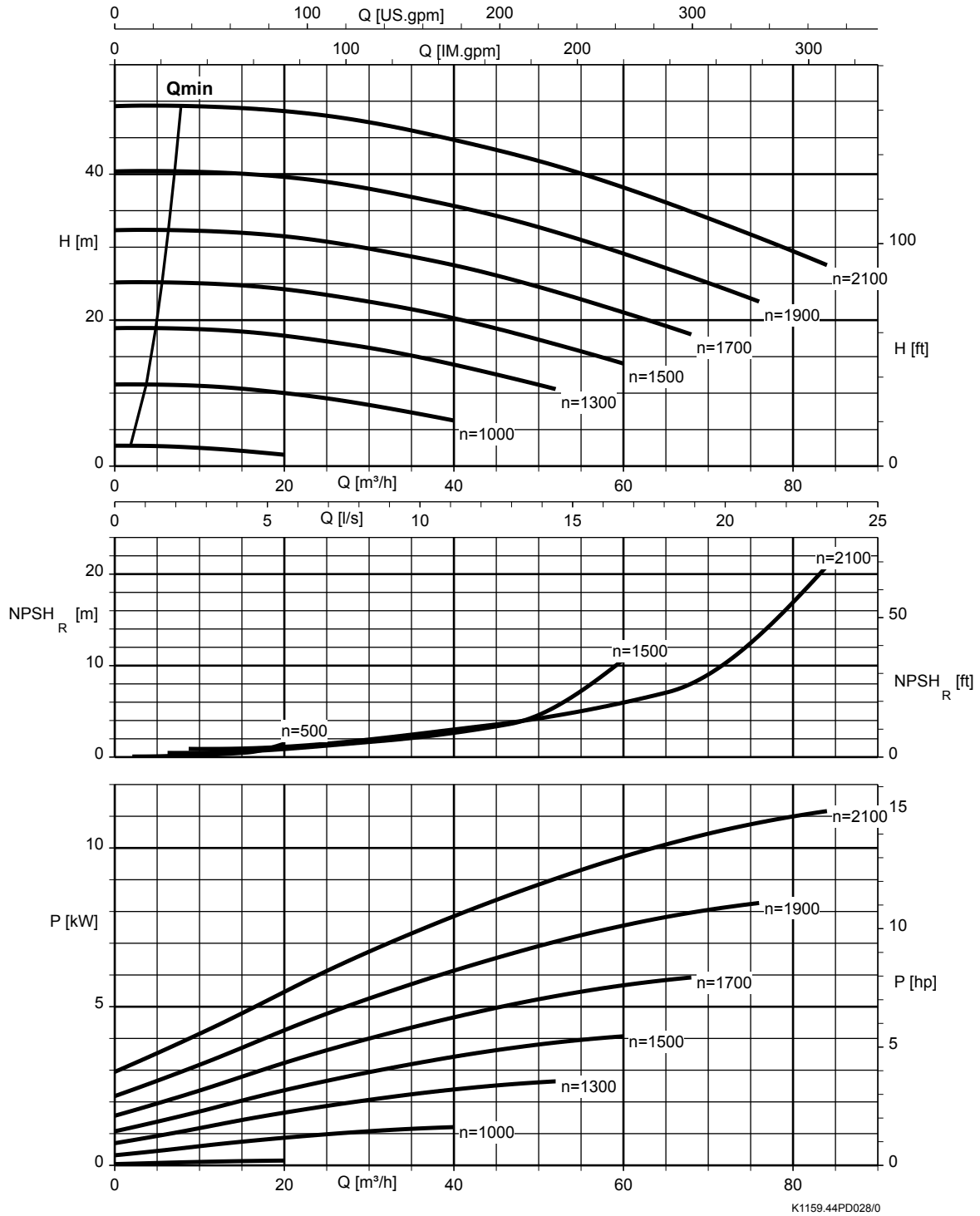
Impeller diameter: 174 mm

Etaline 050-050-160, from 2100 rpm



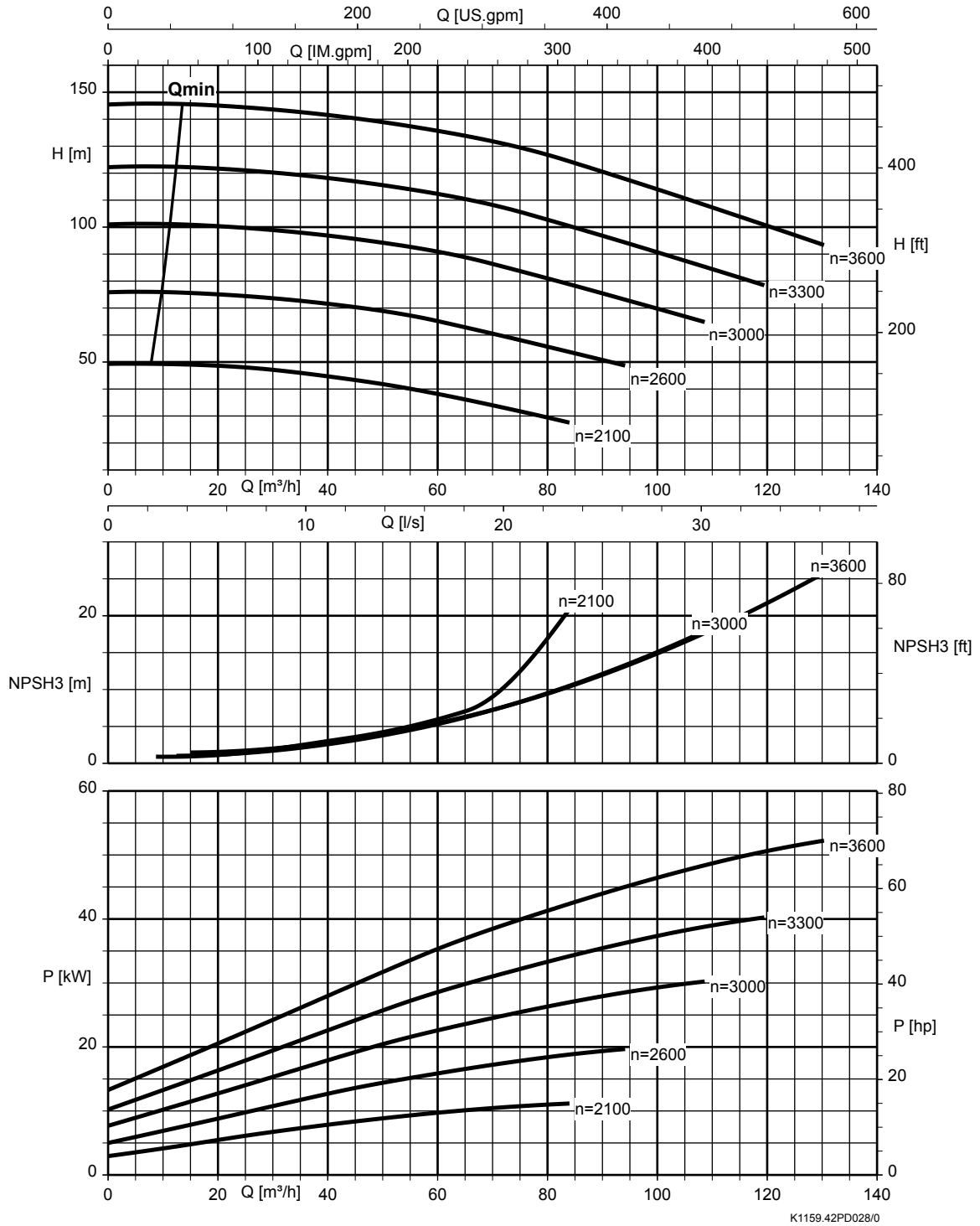
Impeller diameter: 174 mm

Etaline 050-050-250, up to 2100 rpm



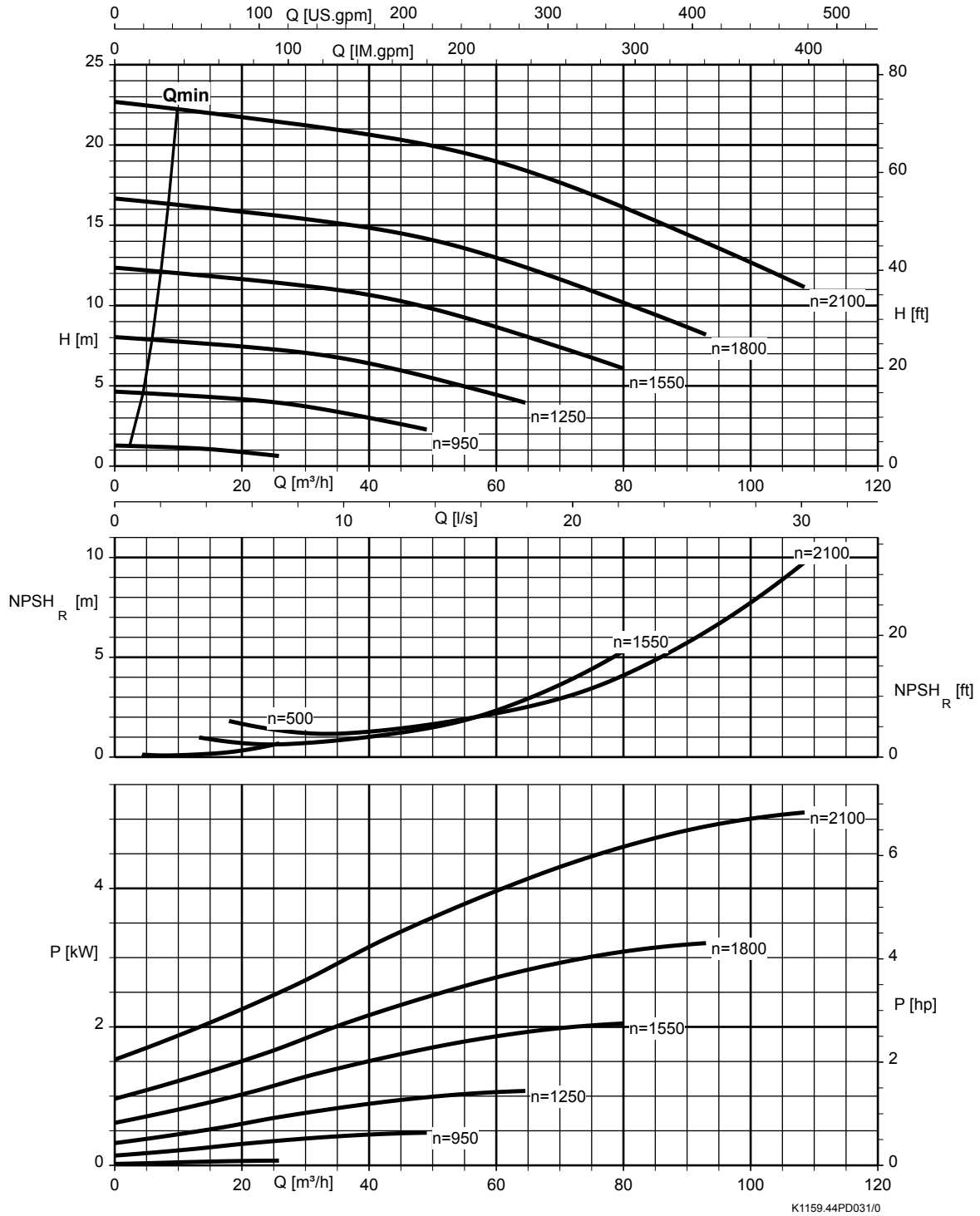
Impeller diameter: 260 mm

Etaline 050-050-250, from 2100 rpm



Impeller diameter: 260 mm

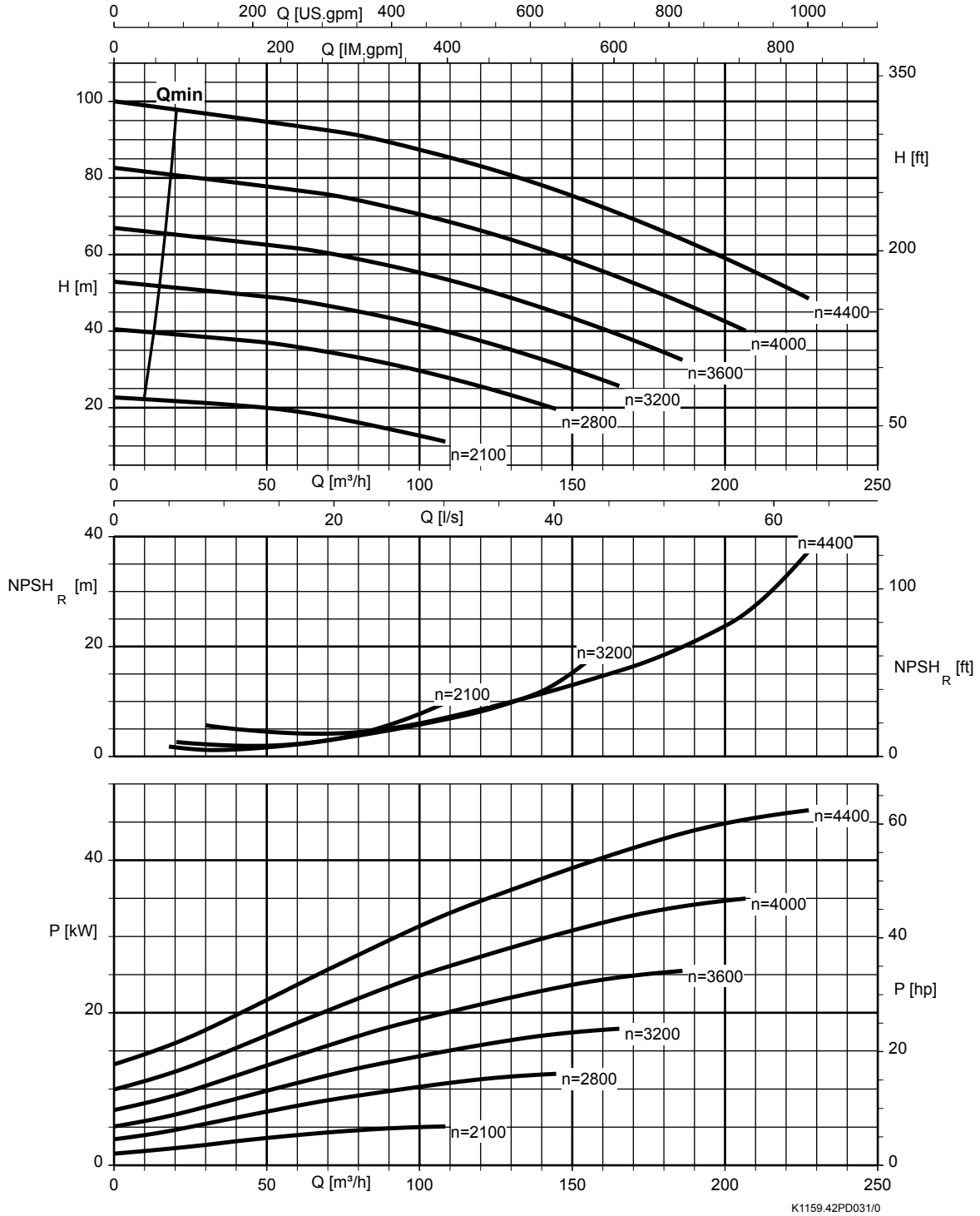
Etaline 065-065-160, up to 2100 rpm



K1159.44PD031/0

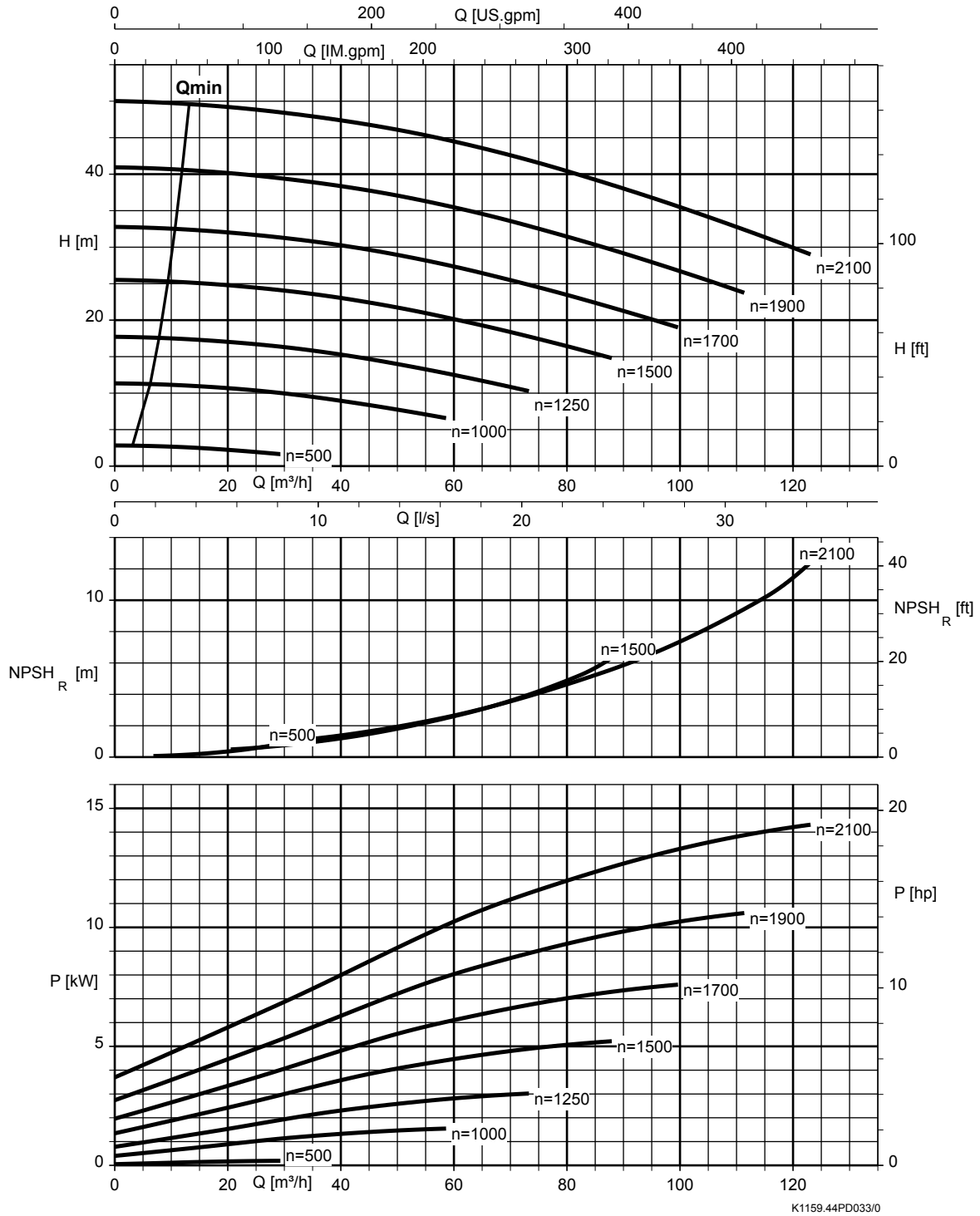
Impeller diameter: 174 mm

Etaline 065-065-160, from 2100 rpm



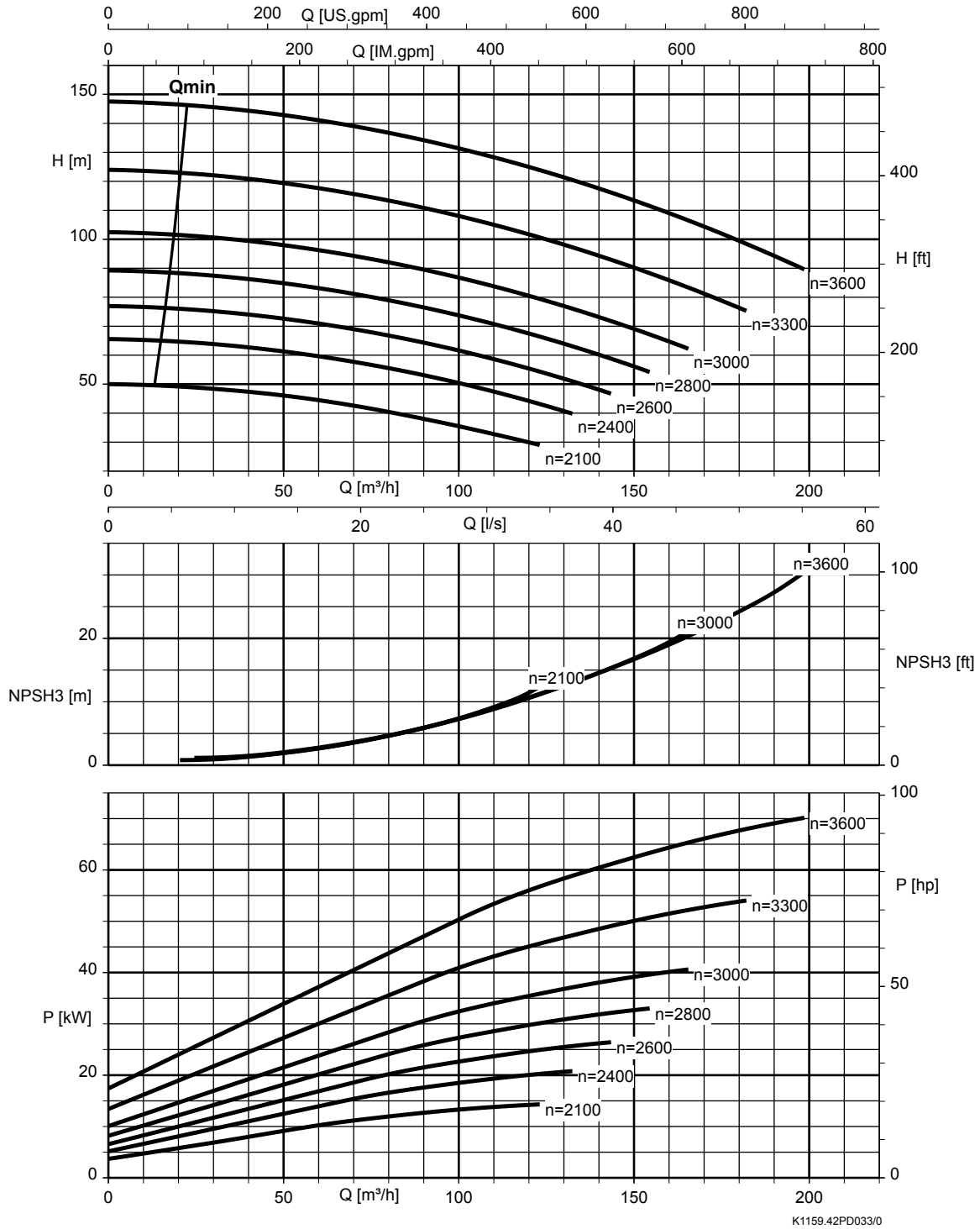
Impeller diameter: 174 mm

Etaline 065-065-250, up to 2100 rpm



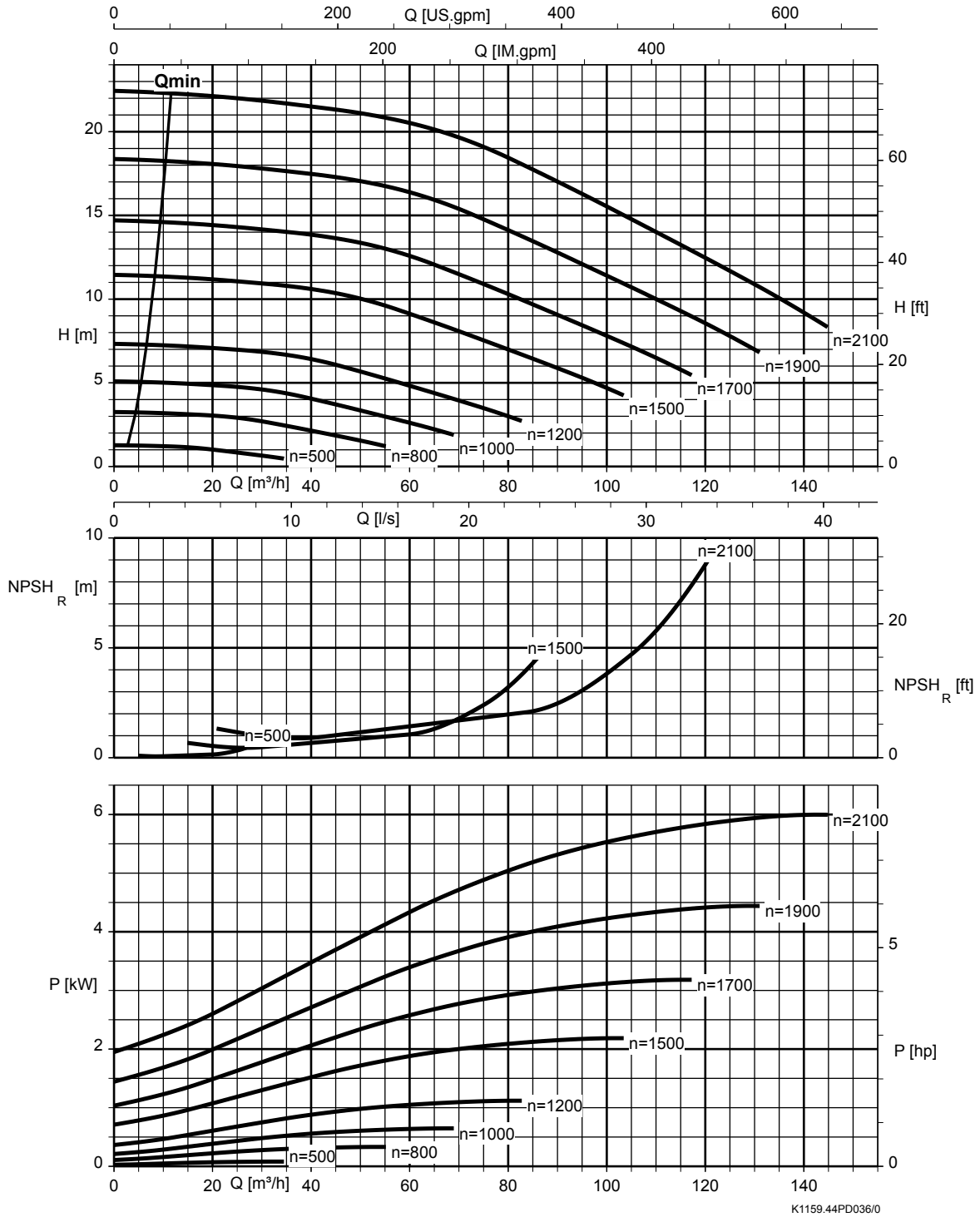
Impeller diameter: 260 mm

Etaline 065-065-250, from 2100 rpm



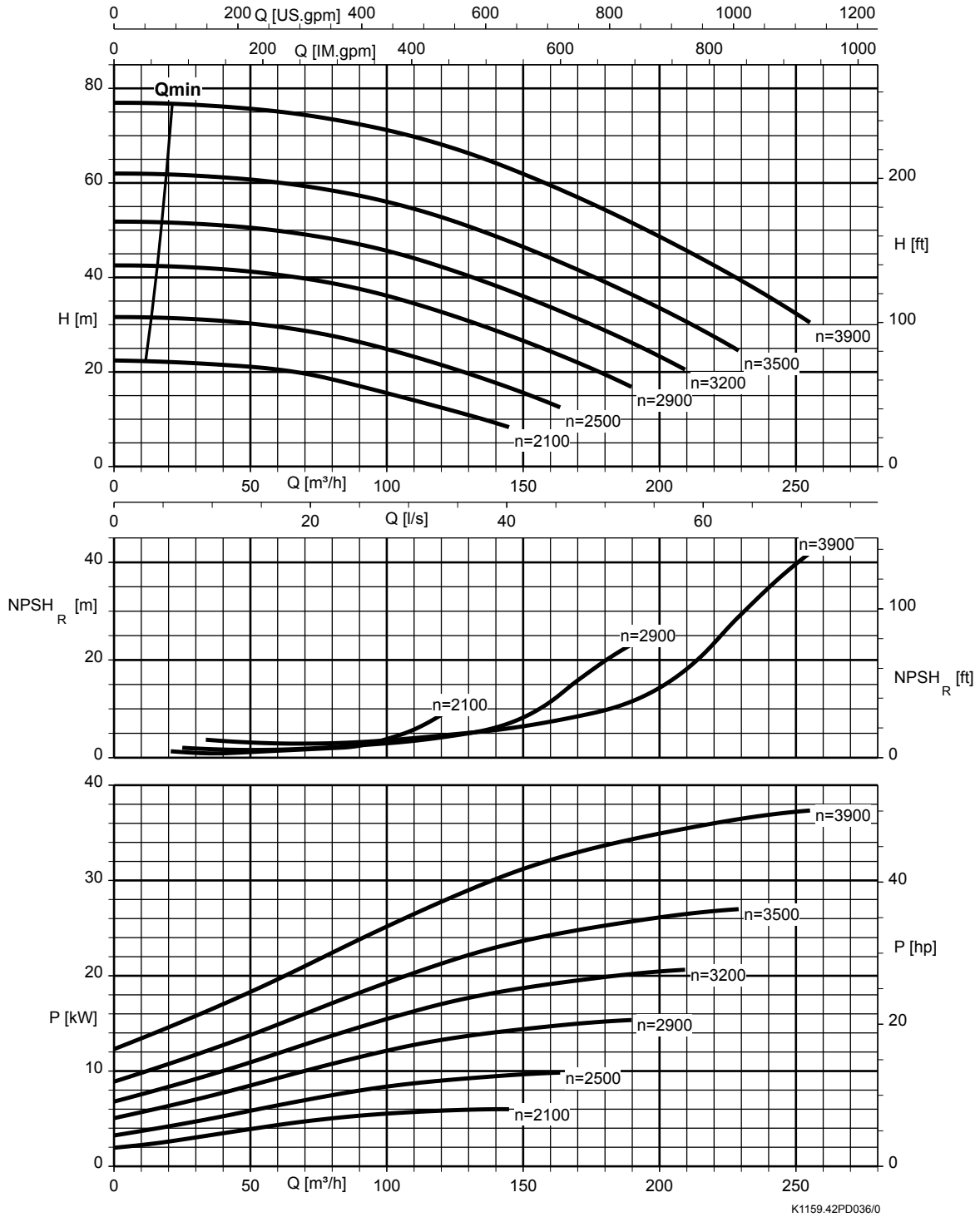
Impeller diameter: 260 mm

Etaline 080-080-160, up to 2100 rpm



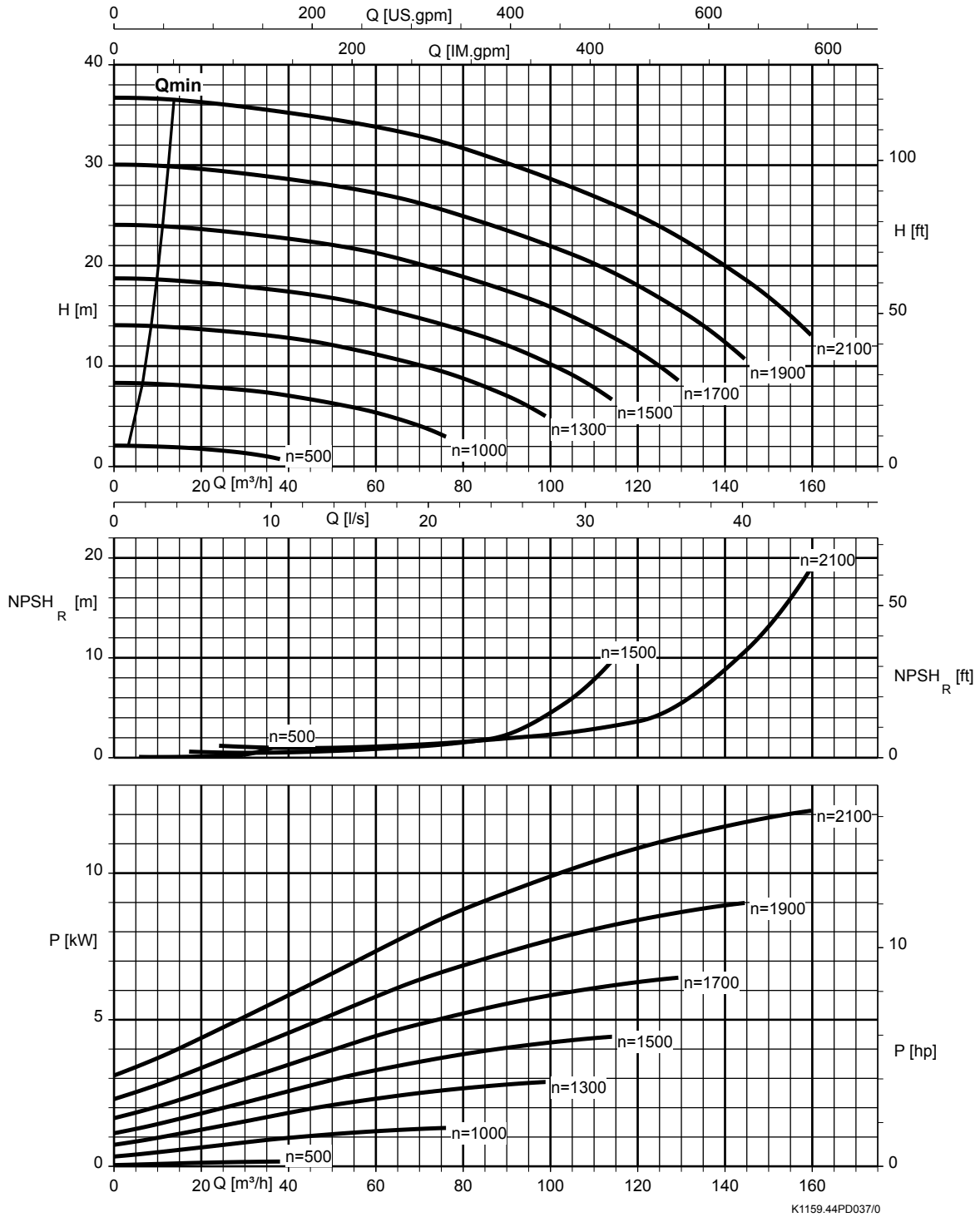
Impeller diameter: 174 mm

Etaline 080-080-160, from 2100 rpm



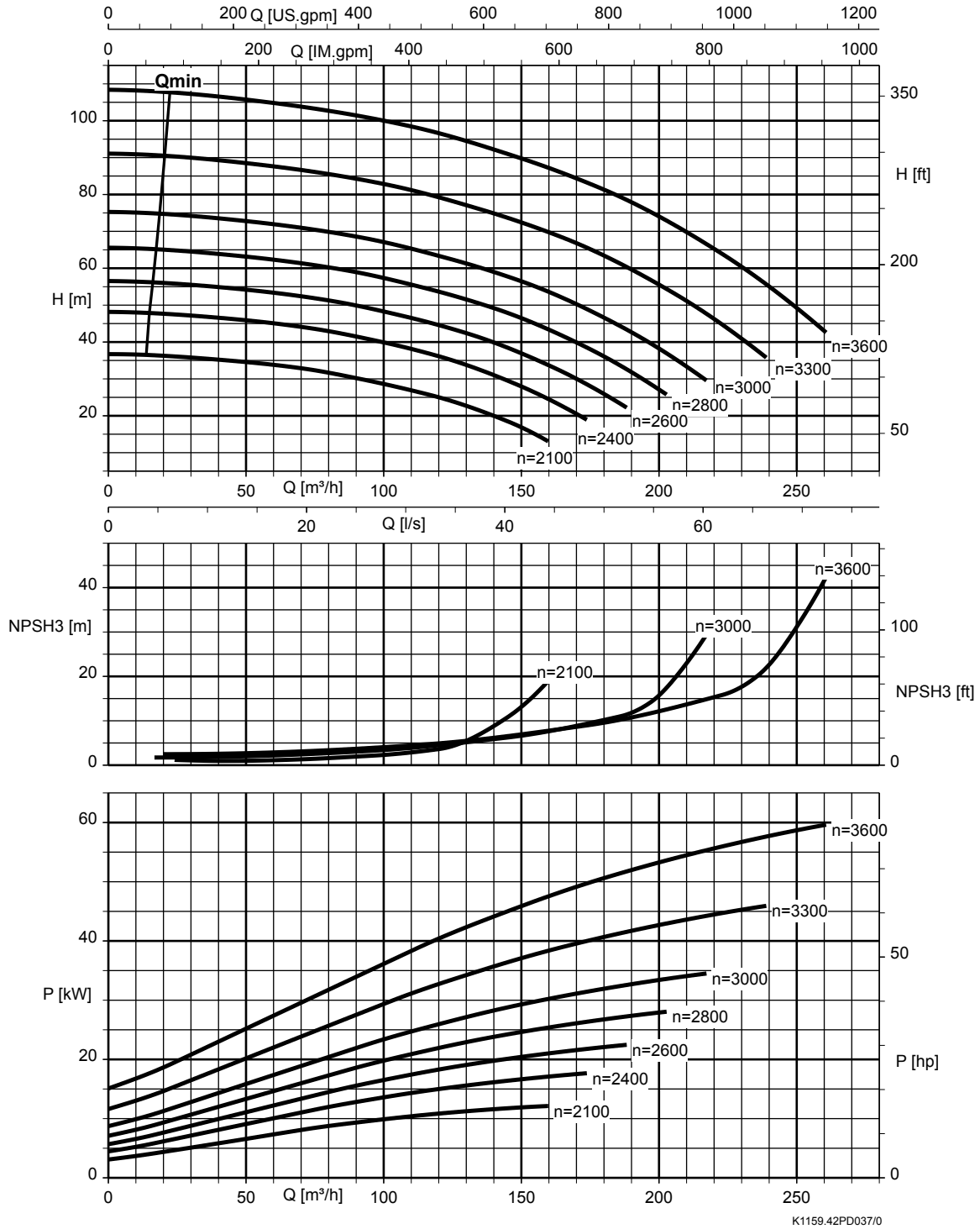
Impeller diameter: 174 mm

Etaline 080-080-200, up to 2100 rpm



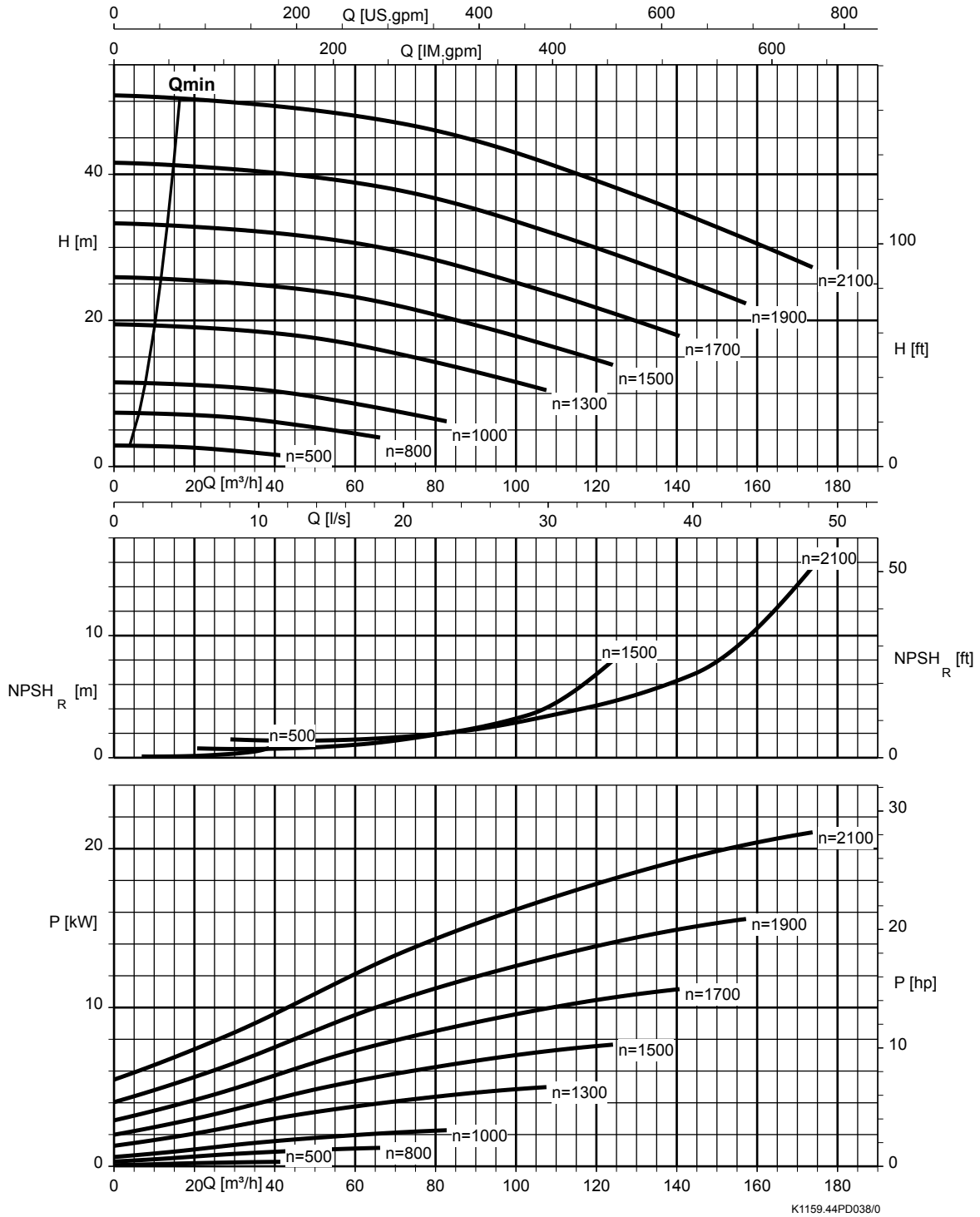
Impeller diameter: 219 mm

Etaline 080-080-200, from 2100 rpm



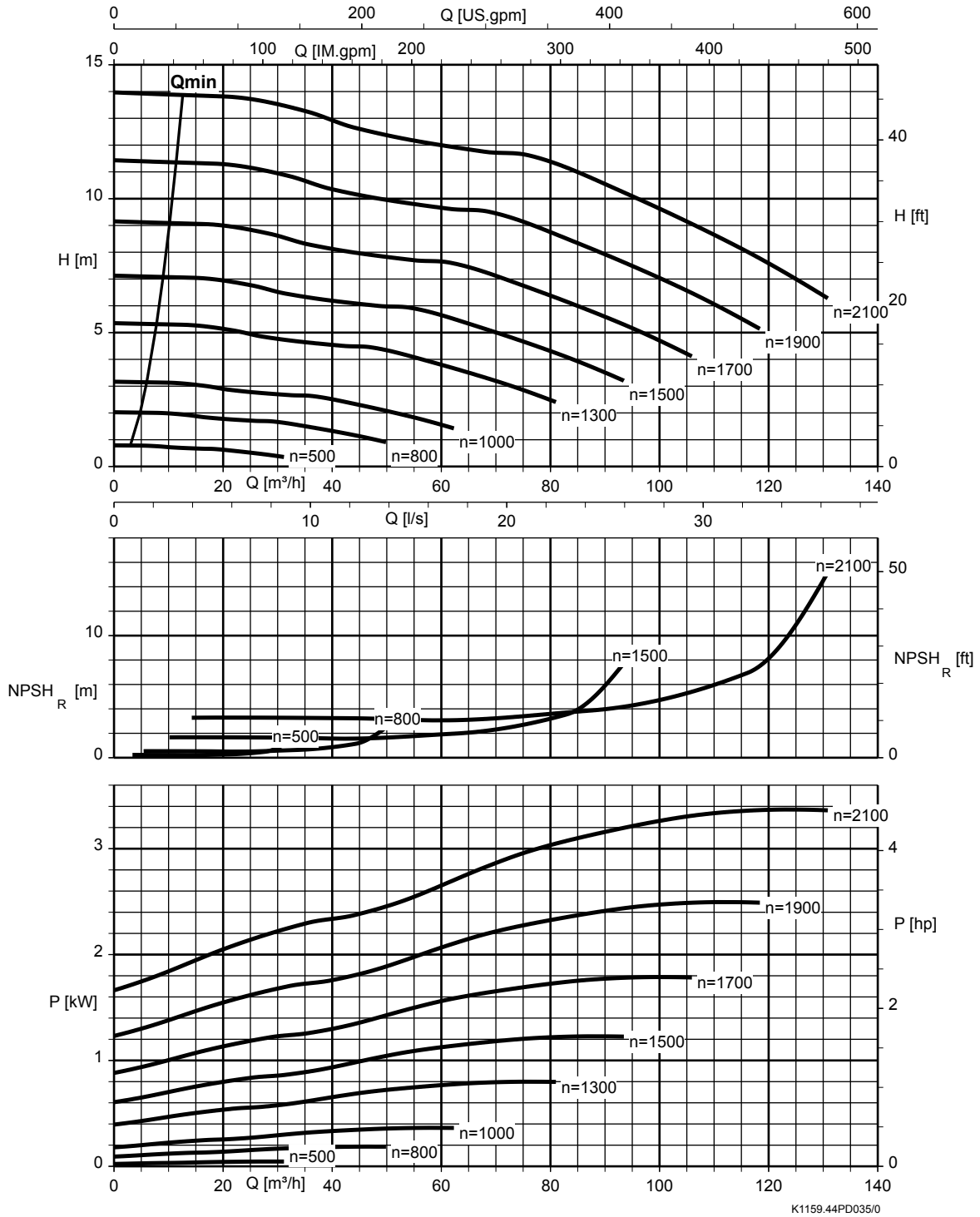
Impeller diameter: 219 mm

Etaline 080-080-250, up to 2100 rpm



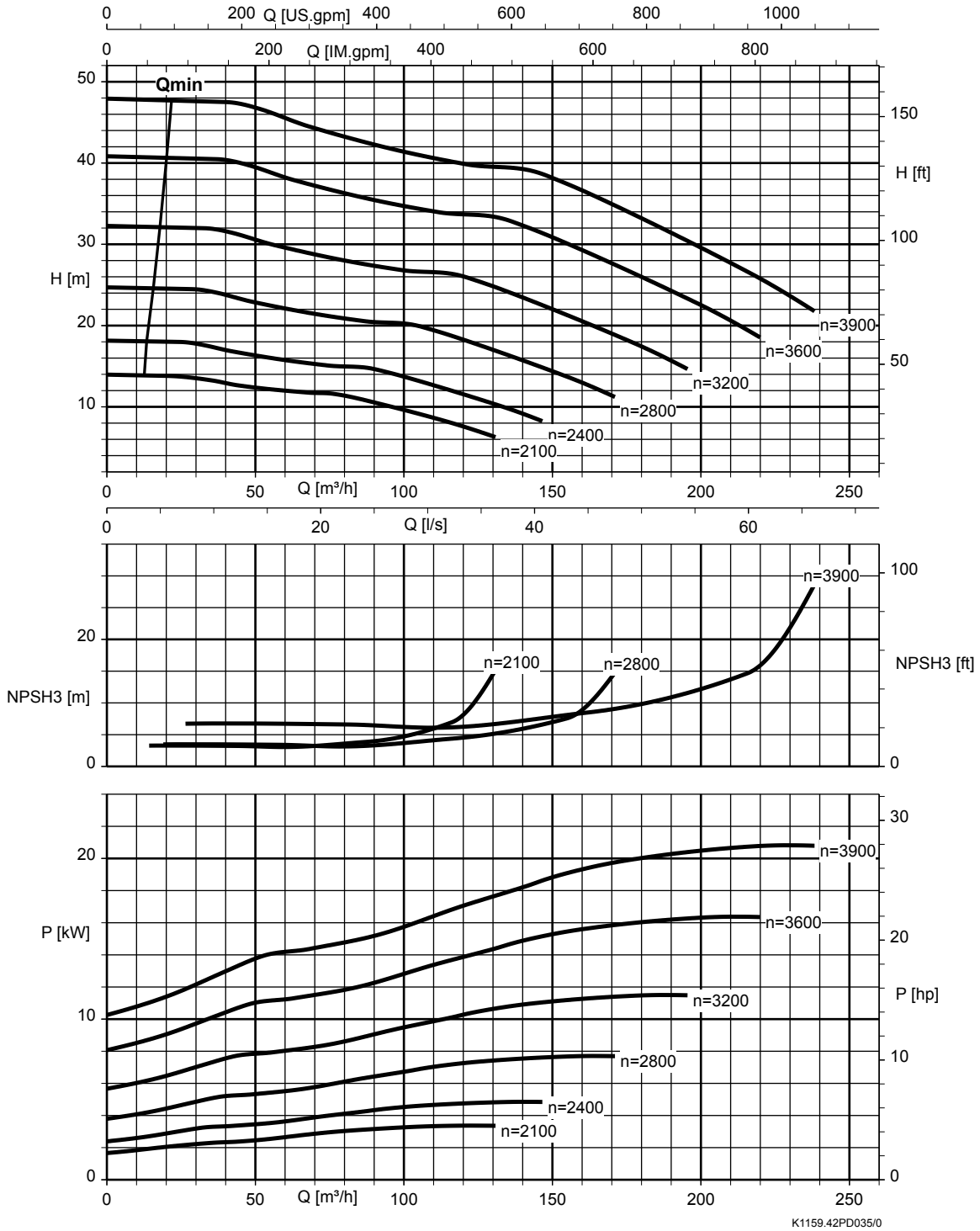
Impeller diameter: 260 mm

Etaline 100-100-125, up to 2100 rpm



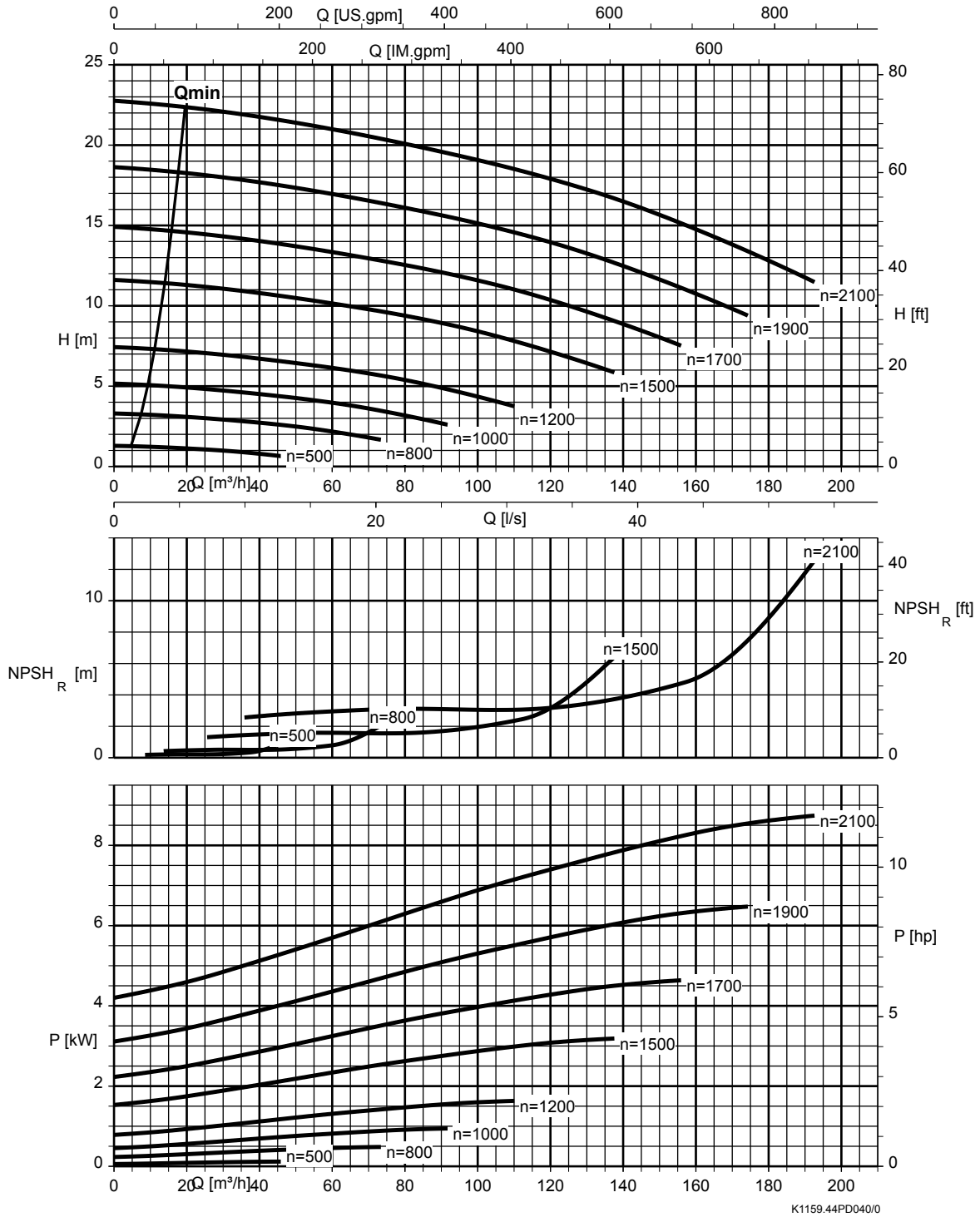
Impeller diameter: 141 mm

Etaline 100-100-125, from 2100 rpm



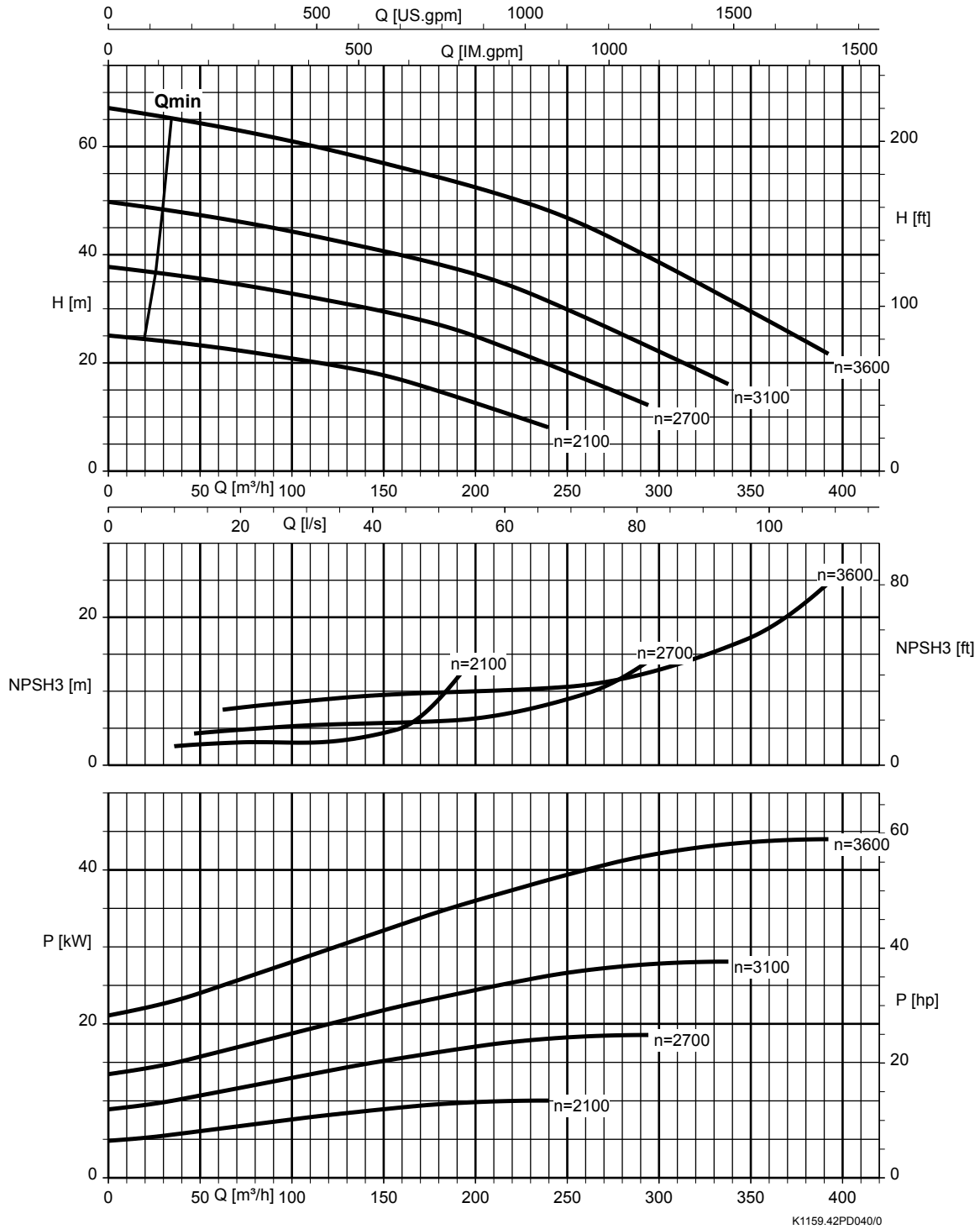
Impeller diameter: 141 mm

Etaline 100-100-160, up to 2100 rpm



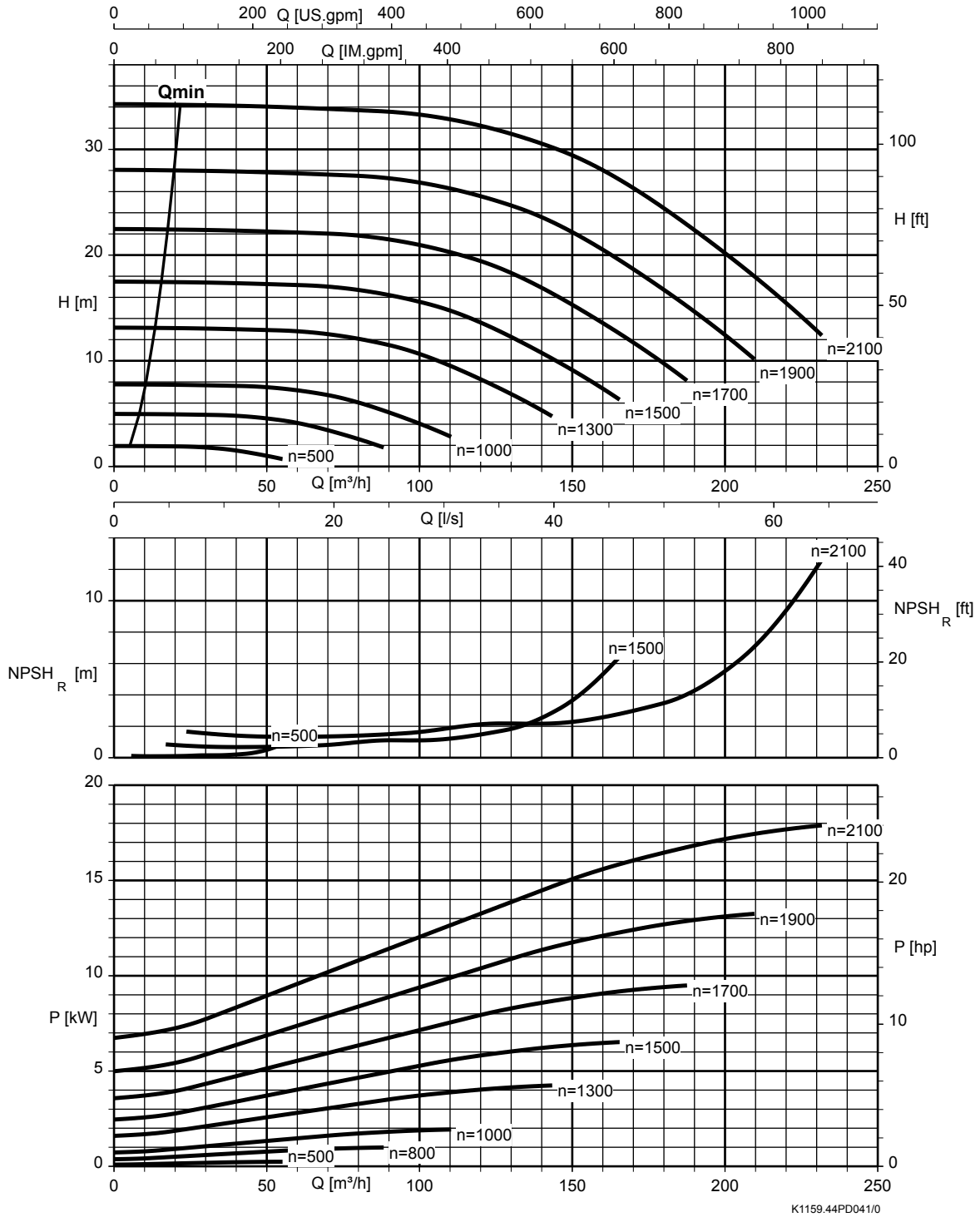
Impeller diameter: 174 mm

Etaline 100-100-160, from 2100 rpm



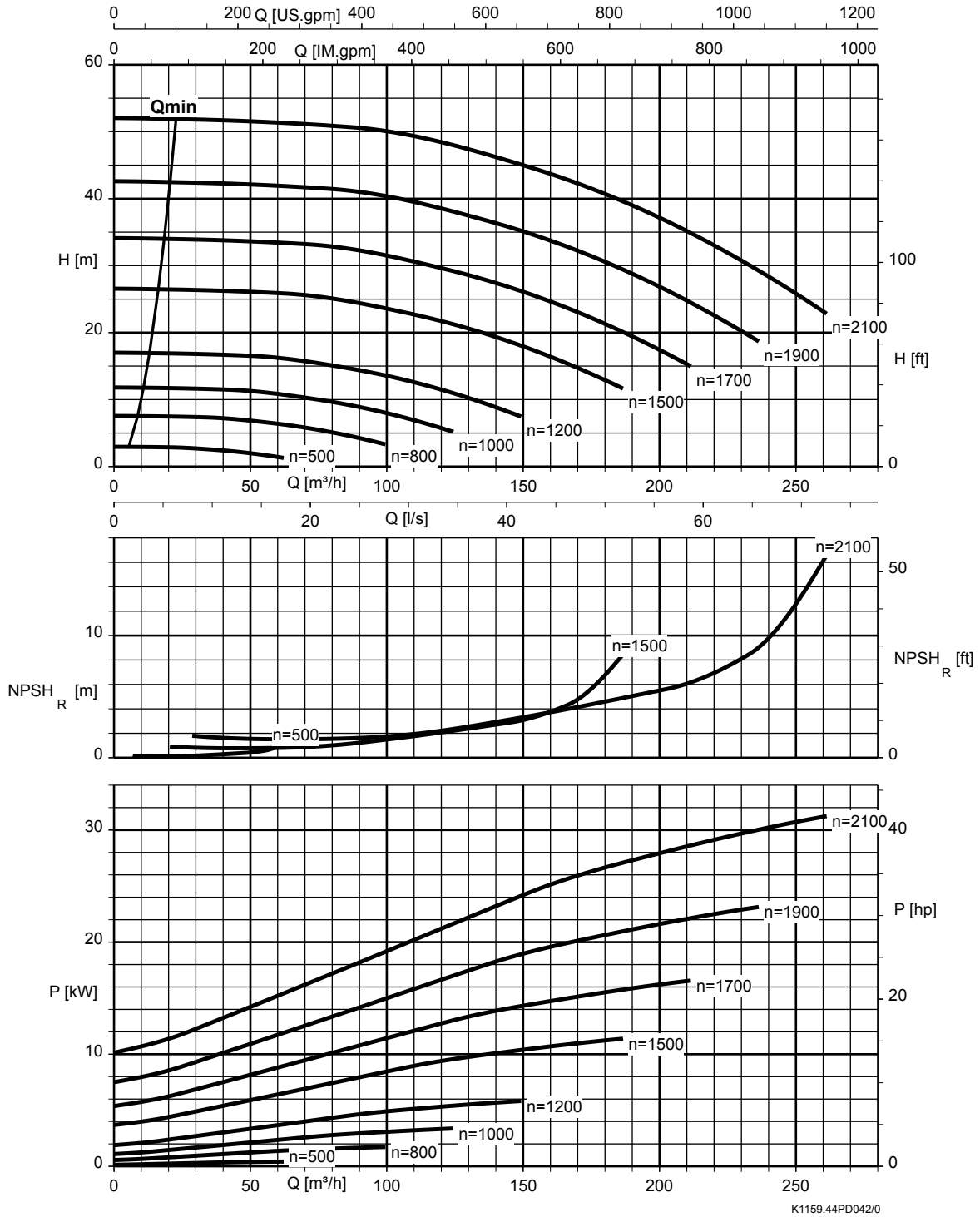
Impeller diameter: 174 mm

Etaline 100-100-200, up to 2100 rpm



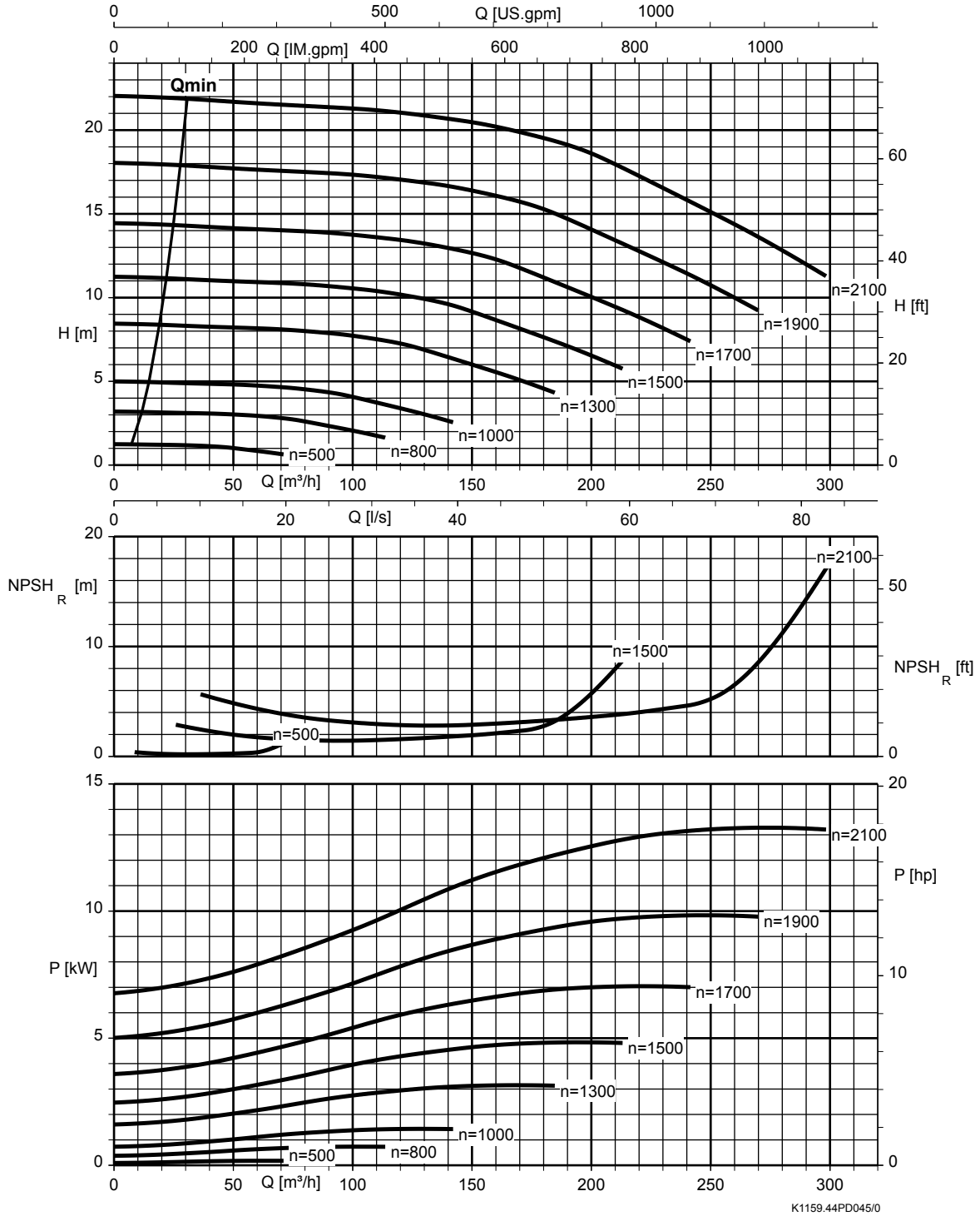
Impeller diameter: 219 mm

Etaline 100-100-250, up to 2100 rpm



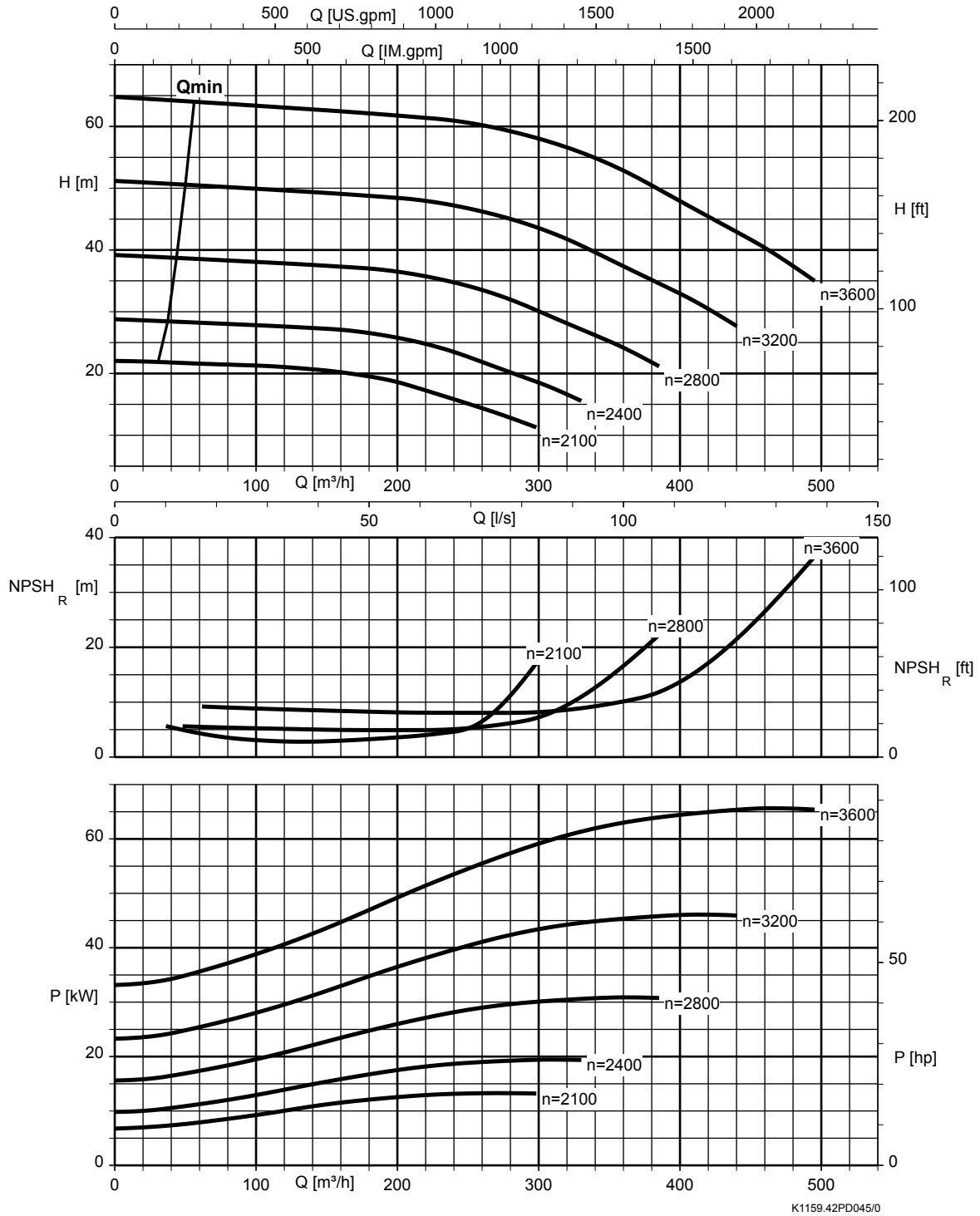
Impeller diameter: 269 mm

Etaline 125-125-160, up to 2100 rpm



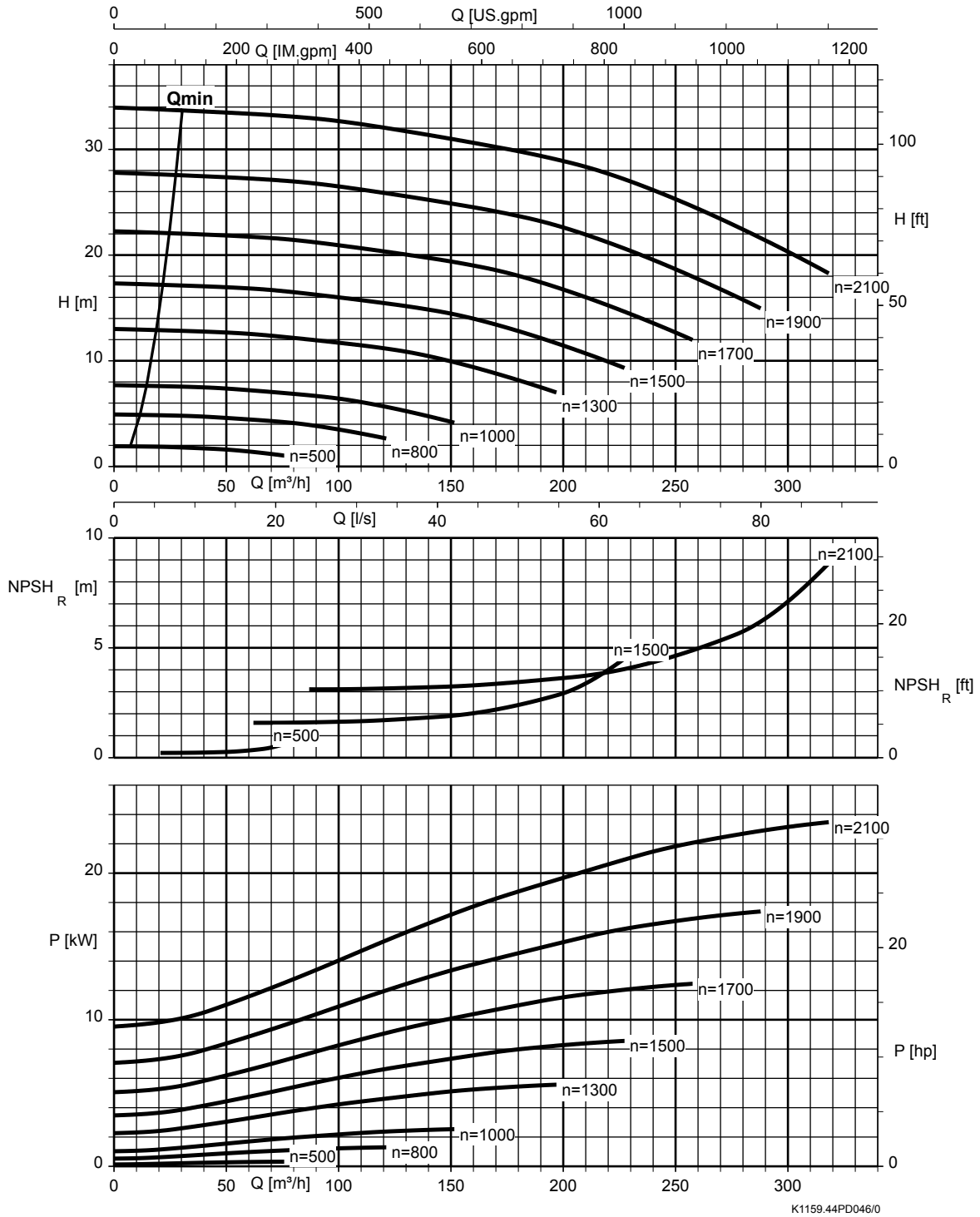
Impeller diameter: 185 mm

Etaline 125-125-160, from 2100 rpm



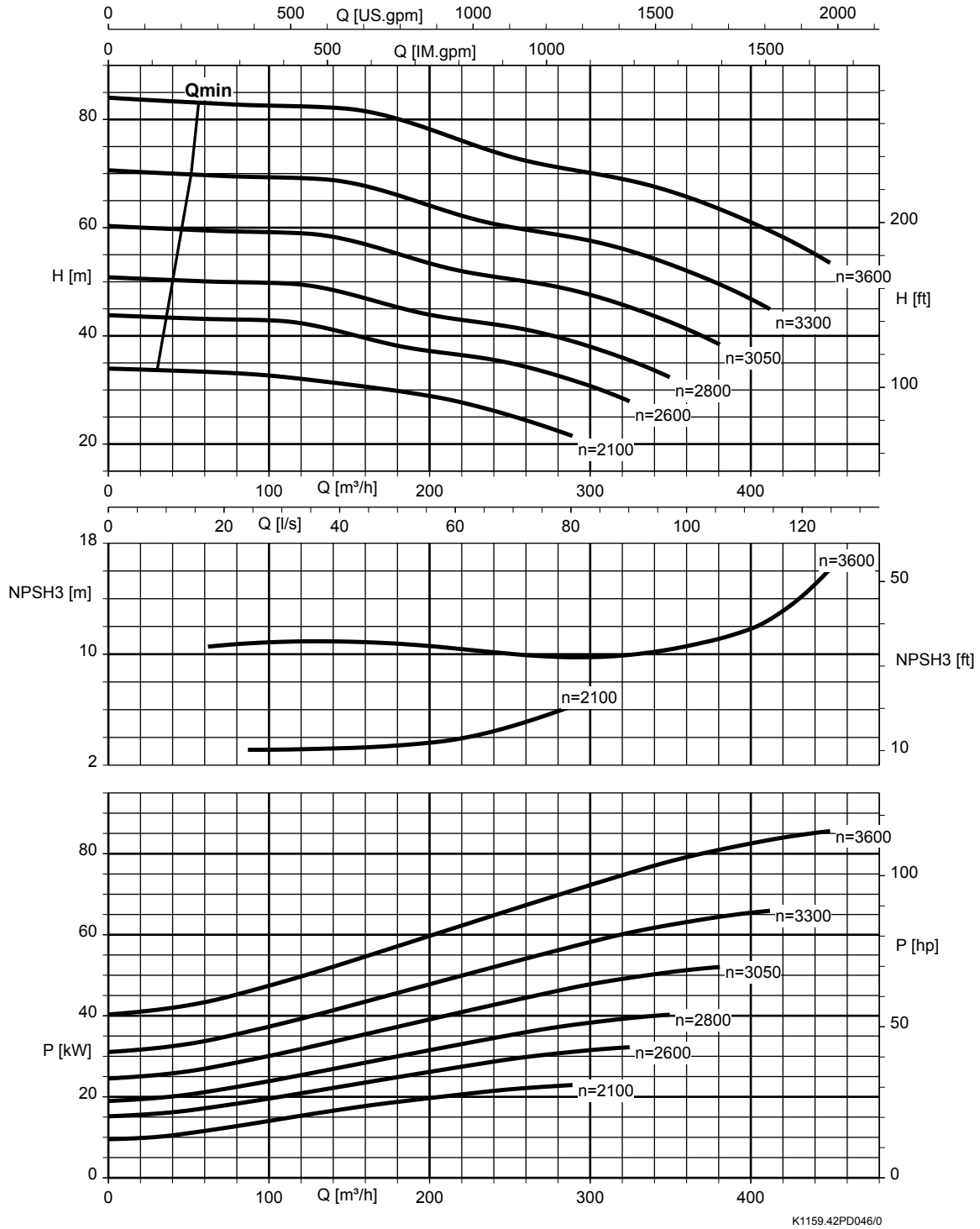
Impeller diameter: 185 mm

Etaline 125-125-200, up to 2100 rpm



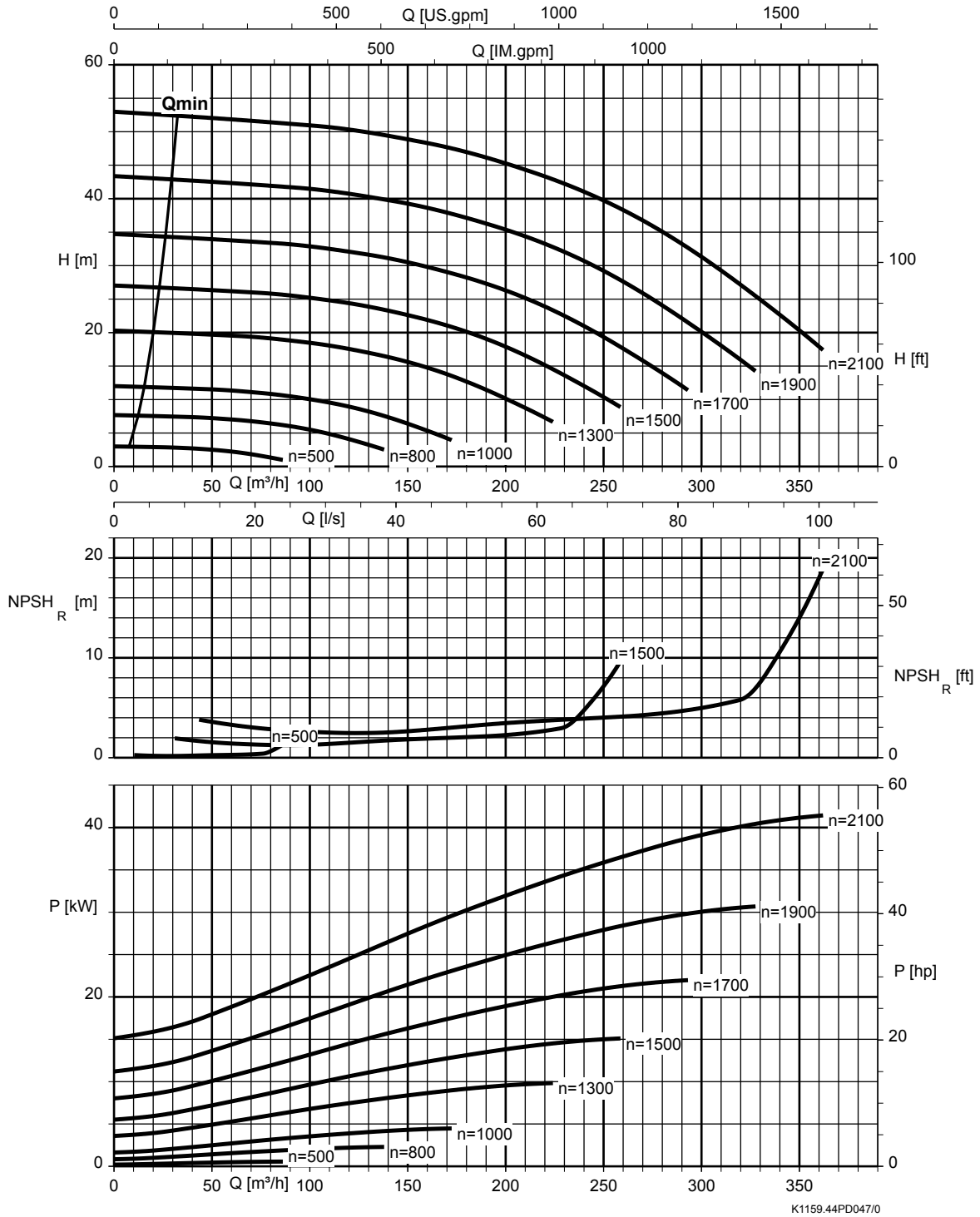
Impeller diameter: 219 mm

Etaline 125-125-200, from 2100 rpm



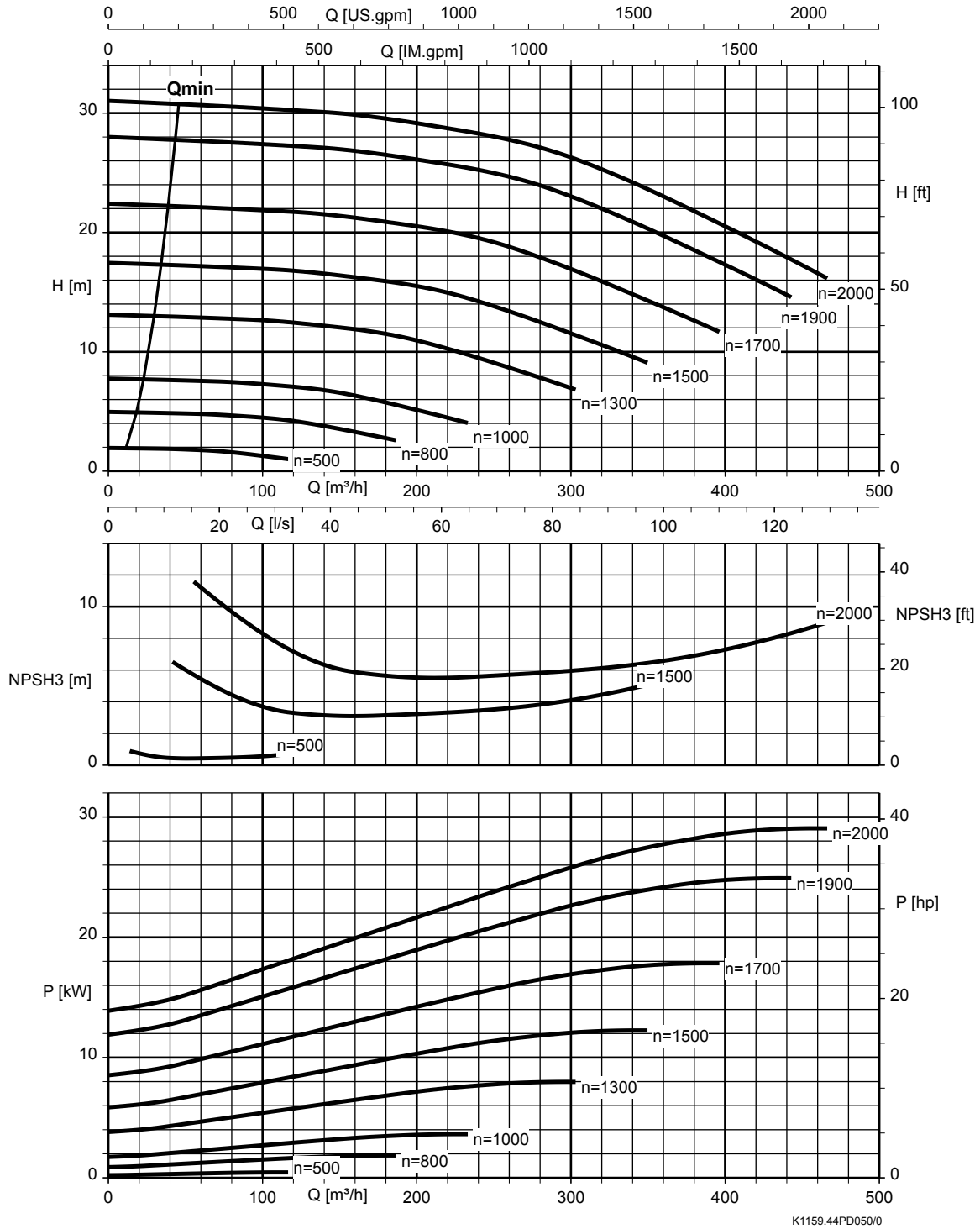
Impeller diameter: 200 mm

Etaline 125-125-250, up to 2100 rpm



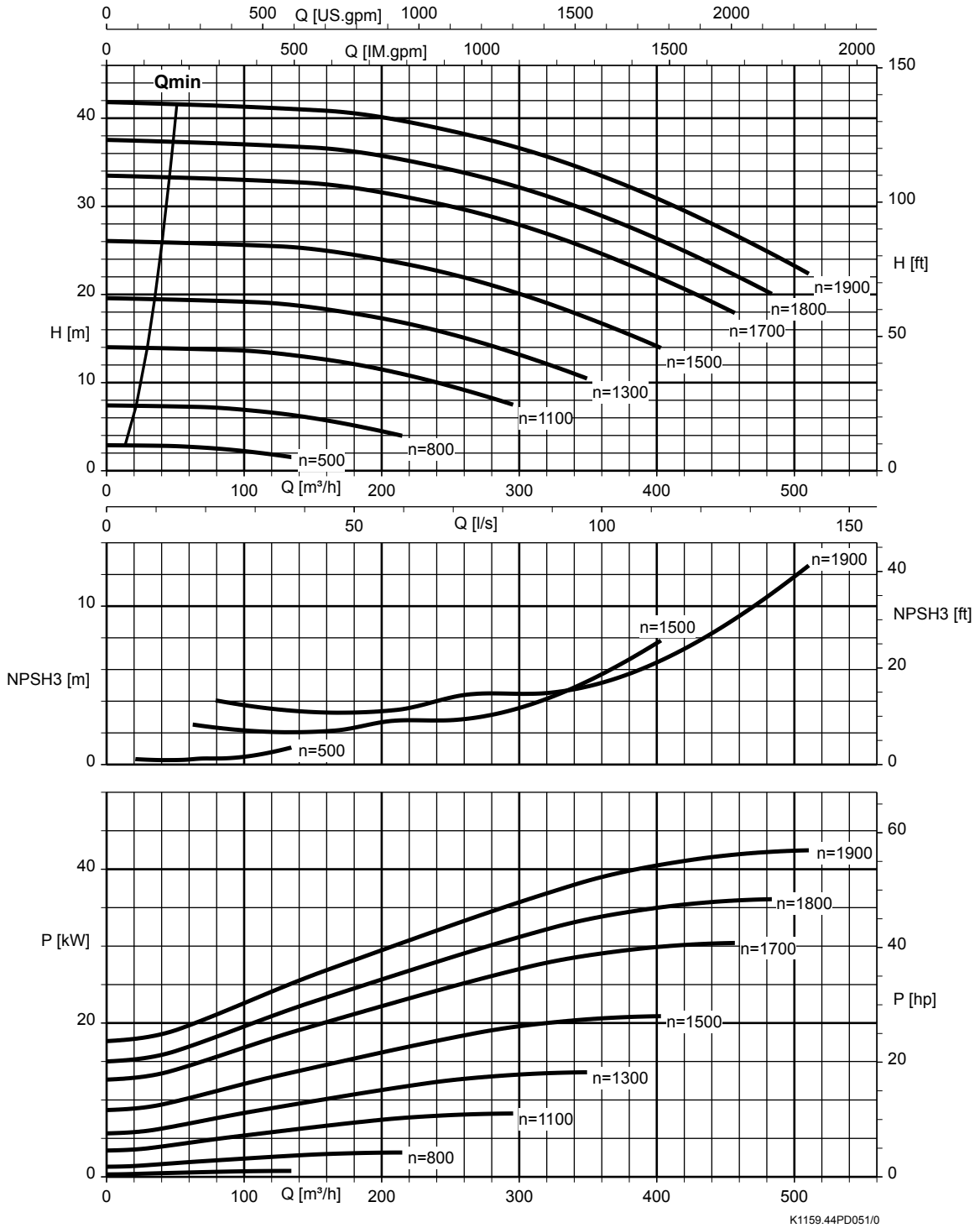
Impeller diameter: 269 mm

Etaline 150-150-200, up to 2000 rpm



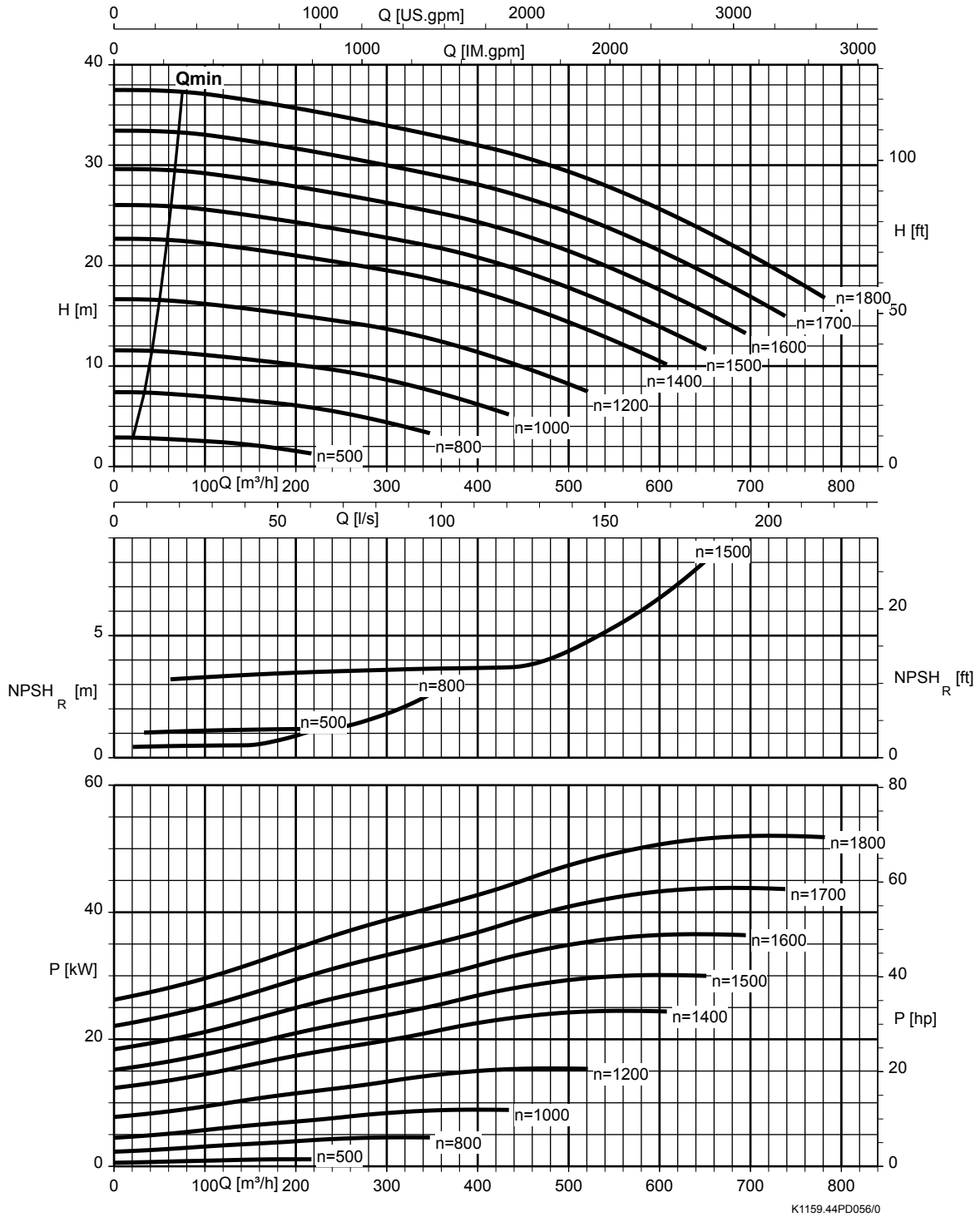
Impeller diameter: 224 mm

Etaline 150-150-250, up to 1900 rpm



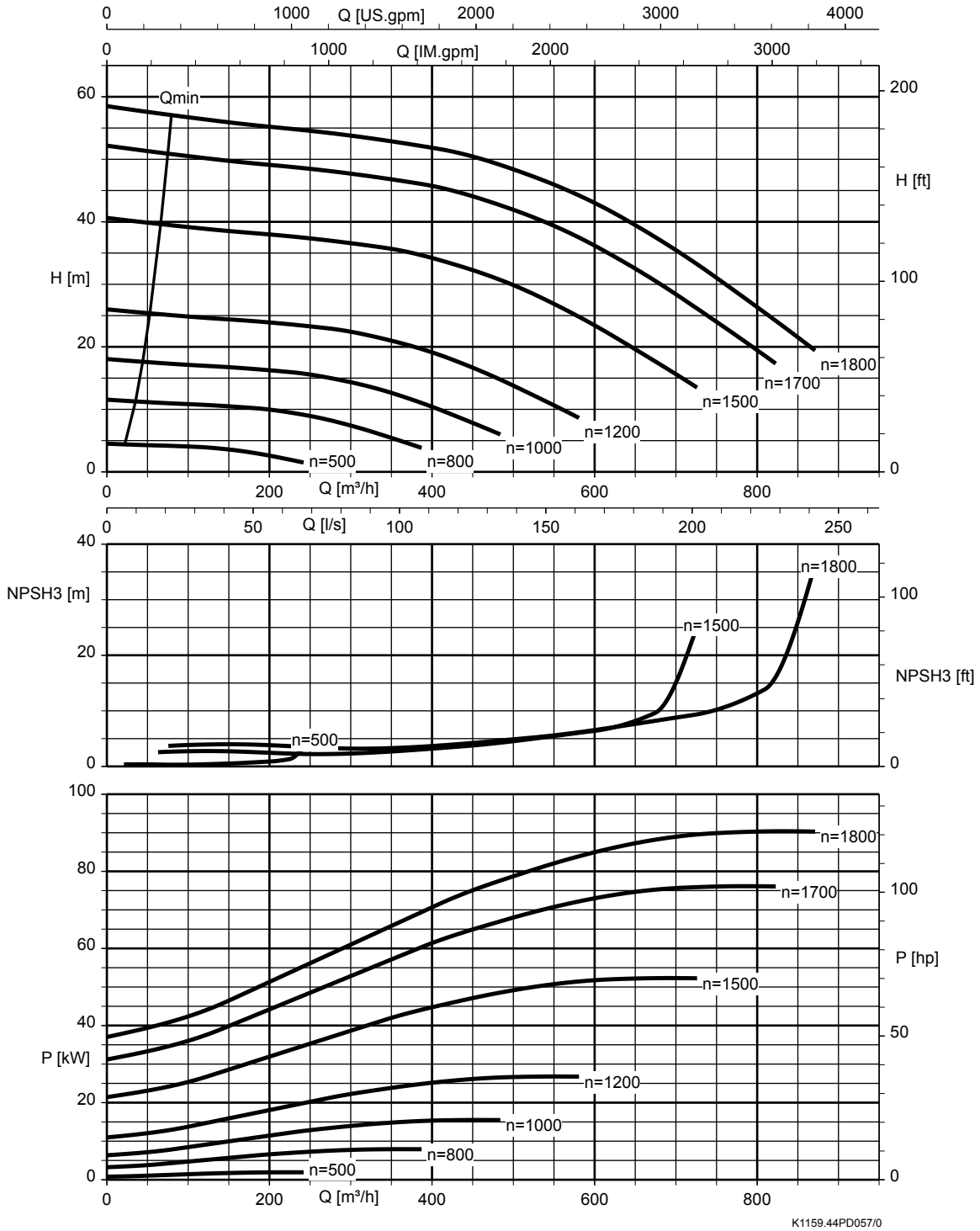
Impeller diameter: 269 mm

Etaline 200-200-250, up to 1800 rpm



Impeller diameter: 269 mm

Etaline 200-200-315, up to 1800 rpm



Impeller diameter: 334 mm



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