

DATA SHEET

Company		Date	09/03/2023
Project		Item	
		Ref No.	

PC 100-270D

Horizontal, single-stage, wide volute casing, end suction, foot-mounted pump

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 170 mm	Motor Power	: 11.00 kW
NPSHr	:	Nominal Speed	: 3000 rpm
Shut Off Head	: 39.2 m		

Liquid Data

Liquid	: Water	Density	: 998.30 kg/m ³
Temperature	: 20 °C	Viscosity	: 1.005 mm ² /s

Pump Data

Design	: Wide volute casing, End suction	Type of Coupling	: Standard
Installation	: Horizontal	Direction Of Rotation	: Clockwise from the drive end
Suction Flange	: EN 1092 PN 10-DN 125	Impeller construction	: Closed
Discharge Flange	: EN 1092 PN 10-DN 100	Type of Bearing	: Closed Type Bearing
Free Passage	: 40 mm	Type of Shaft Sealing	: Soft Packing

Materials

Volute Casing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Casing Cover	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Impeller	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Shaft	1.0503 / C45 / AISI 1045
Bearing Housing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Spacer Sleeve	1.0503 / C45 / AISI 1045

Operating Point Data

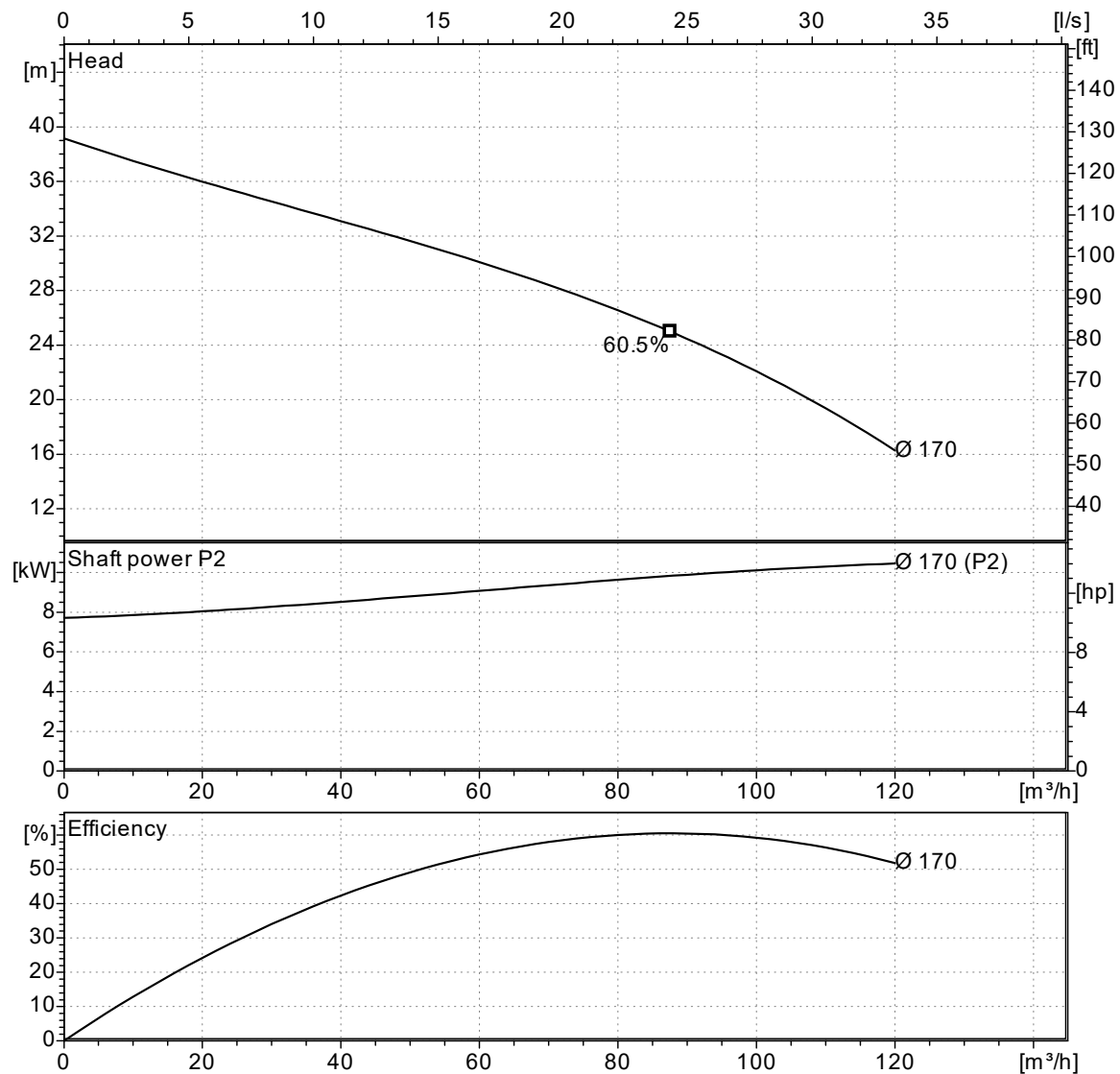
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Capacity:
Head:
Efficiency (%):
Power at Duty Point:
Viscosity: 1.005 mm²/s
Free Passage: 40 mm

NPSHr:
Motor Power: 11.00 kW
Nominal Speed: 3000 rpm
Frequency: 50 Hz
Density: 998.30 kg/m³



Curves compatible with ISO 9906:2012 Gr 3B

NPSHa > NPSHr + 1m

Note : The motor power is not sufficient for dotted area.

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Motor Data

Efficiency Level	:	
Motor type	:	Three-Phase Asynchronous Motor
Motor Power	:	11.0 kW
Rated Speed	:	2935 rpm
Voltage	:	400 V
Rated Current	:	21.50 A
Frequency	:	50 Hz
Motor Phase	:	3
Service Factor	:	1.15
Insulation Class	:	F
Degree of Protection	:	IP 68
Efficiency	:	87.6 %
Power factor	:	0.85