

DATA SHEET

Company		Date	07/03/2023
Project		Item	
		Ref No.	

PC 80-160Vx

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	: 160 mm	Motor Power	: 2.20 kW
NPSHr	:	Nominal Speed	: 1500 rpm
Shut Off Head	: 7.7 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 100	Impeller construction	: Vortex
Discharge Flange	: EN 1092 PN 10-DN 80	Type of Bearing	: Closed Type Bearing
Free Passage	: 76 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

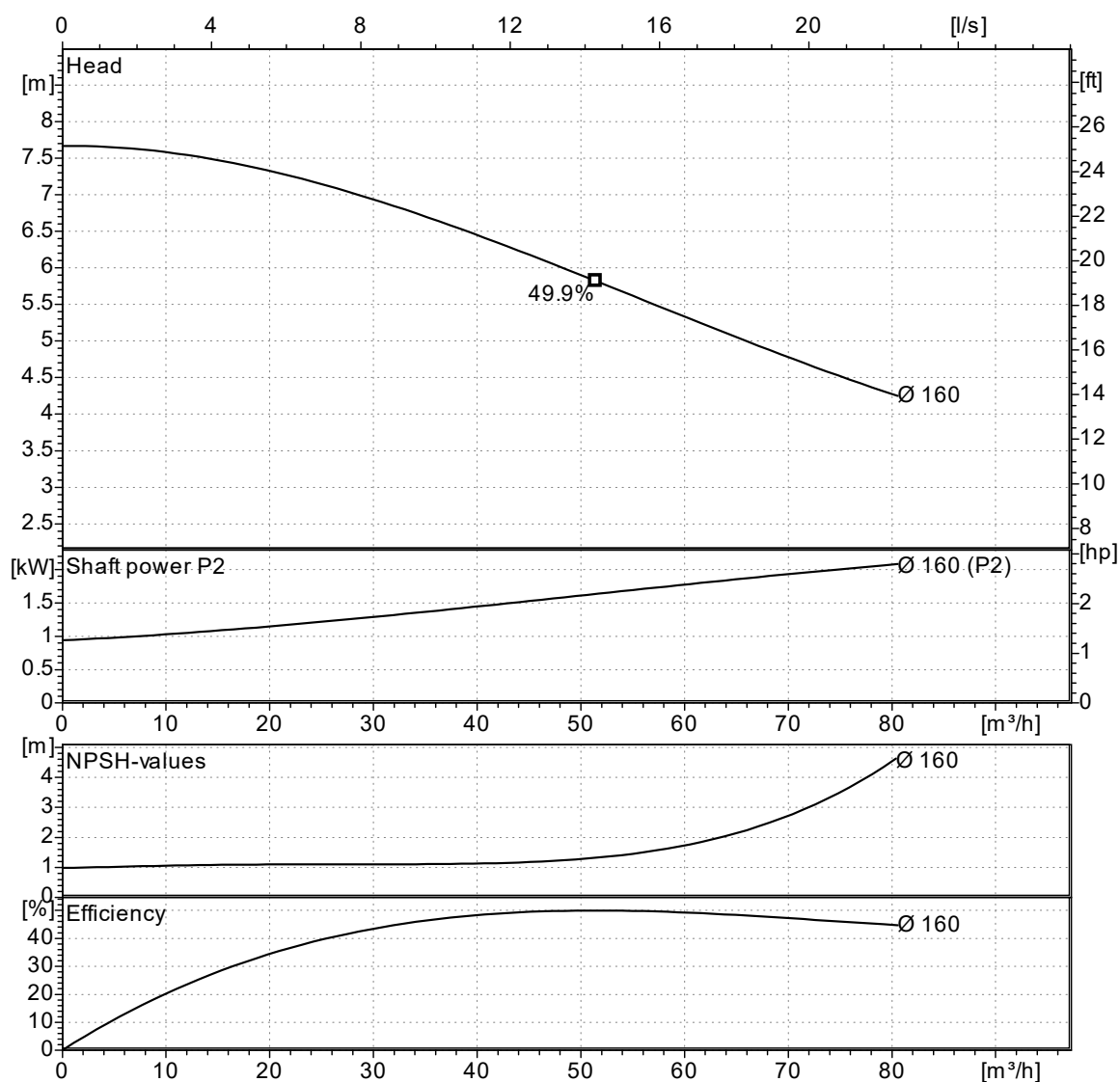
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Capacity:		NPSHr:	
Head:		Motor Power:	2.20 kW
Efficiency (%):		Nominal Speed:	1500 rpm
Power at Duty Point:		Frequency:	50 Hz
Viscosity:	1.005 mm ² /s	Density:	998.30 kg/m ³
Free Passage:	76 mm		



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 : 2.2 kW
 Rated Speed : 1450 rpm
 Voltage : 400 V
 Rated Current : 4.90 A
 Frequency : 50 Hz
 Motor Phase : 3
 Service Factor : 1.15
 Insulation Class : F
 Degree of Protection : IP 55
 Efficiency : - %
 Power factor : 0.00