

## 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

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Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 198 mm	Motor Power	: 22.00 kW
NPSHr	:	Nominal Speed	: 3000 rpm
Shut Off Head	: 54.2 m		

#### Liquid Data

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

#### Pump Data

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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

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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

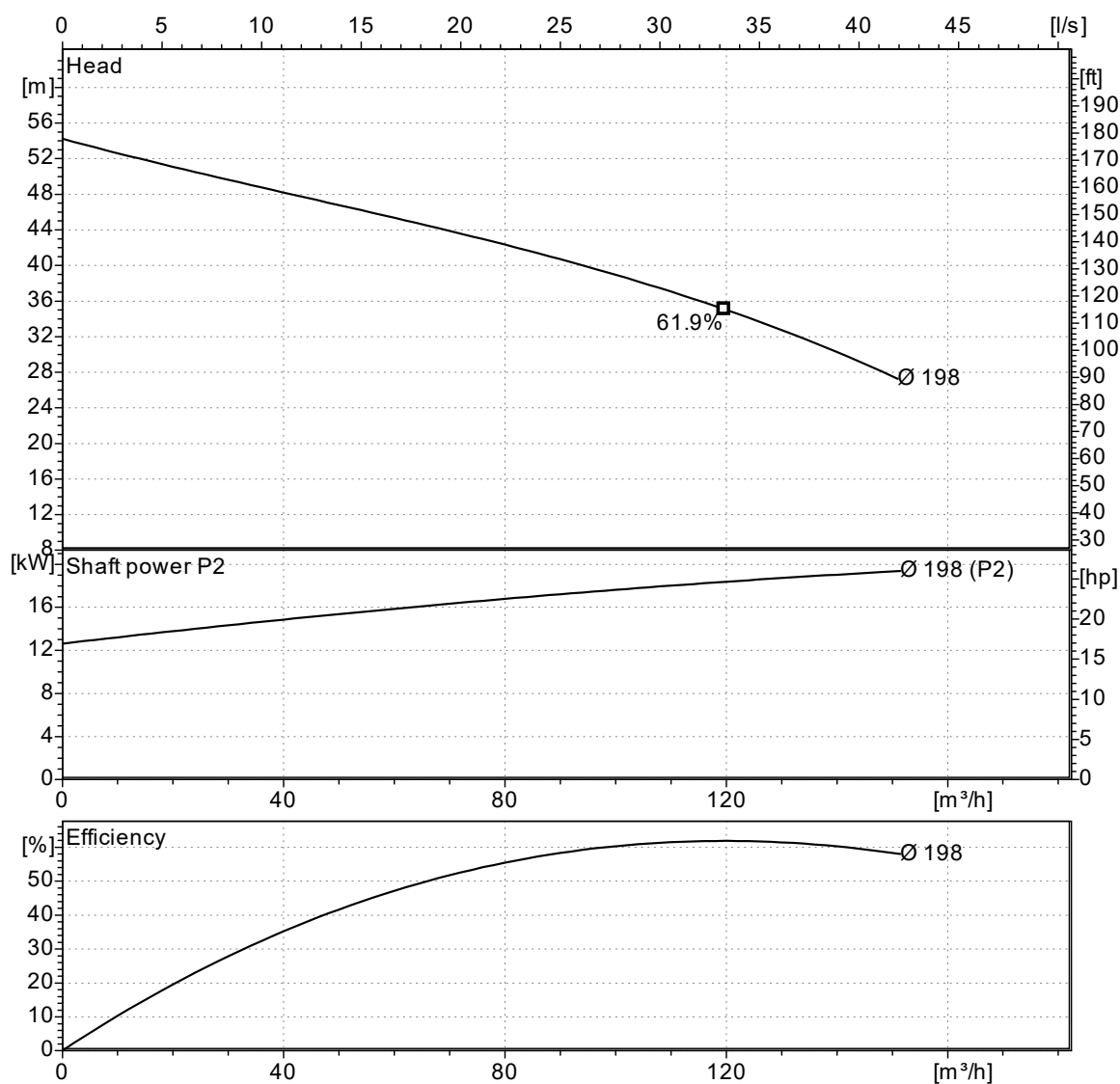
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Capacity:		NPSHr:	
Head:		Motor Power:	22.00 kW
Efficiency (%):		Nominal Speed:	3000 rpm
Power at Duty Point:		Frequency:	50 Hz
Viscosity:	1.005 mm <sup>2</sup> /s	Density:	998.30 kg/m <sup>3</sup>
Free Passage:	40 mm		



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**

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Efficiency Level :  
 Motor type : Three-Phase Asynchronous Motor  
 Motor Power : 22.0 kW  
 Rated Speed : 2950 rpm  
 Voltage : 400 V  
 Rated Current : 40.00 A  
 Frequency : 50 Hz  
 Motor Phase : 3  
 Service Factor : 1.15  
 Insulation Class : F  
 Degree of Protection : IP 68  
 Efficiency : 90.1 %  
 Power factor : 0.88