

DATA SHEET

Company		Date	01/02/2023
Project		Item	
		Ref No.	

SBT 100/5

Norly material full automatic booster set

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Required Flow	: 0 m ³ /h	Motor Power	: 5.50 kW
Required Head	: 0 m	Nominal Speed	: 2936 rpm
Shut Off Head	: 96.8 m		

Liquid Data

Liquid	: Water	Density	: 998.30 kg/m ³
Temperature	: 20 °C	Viscosity	: 1.005 cSt

Pump Data

Design	: Booster Pump	Direction Of Rotation	: Clockwise from the drive end
Installation	: Horizontal	Impeller Type	: Radial impeller
Suction Flange	: 1 1/2"	Type of Bearing	: Ball Bearing
Discharge Flange	: 1 1/2"	Type of Shaft Sealing	: Mechanical Seal
Pressure rating	: PN10/16		

Minimum Efficiency Index (MEI) >= 0,4

Materials

Suction Casing	GG25 / 0.6025 / A48 40B
Discharge Casing	GG25 / 0.6025 / A48 40B
Stage Casing	Noryl
Diffuser	Noryl
Impeller	Noryl
Shaft	X20Cr13 / 1.4021 / A276 Type 420
Outer Jacket	X5CrNi18-10 / 1.4301 / A276 Type 304

Operating Point Data

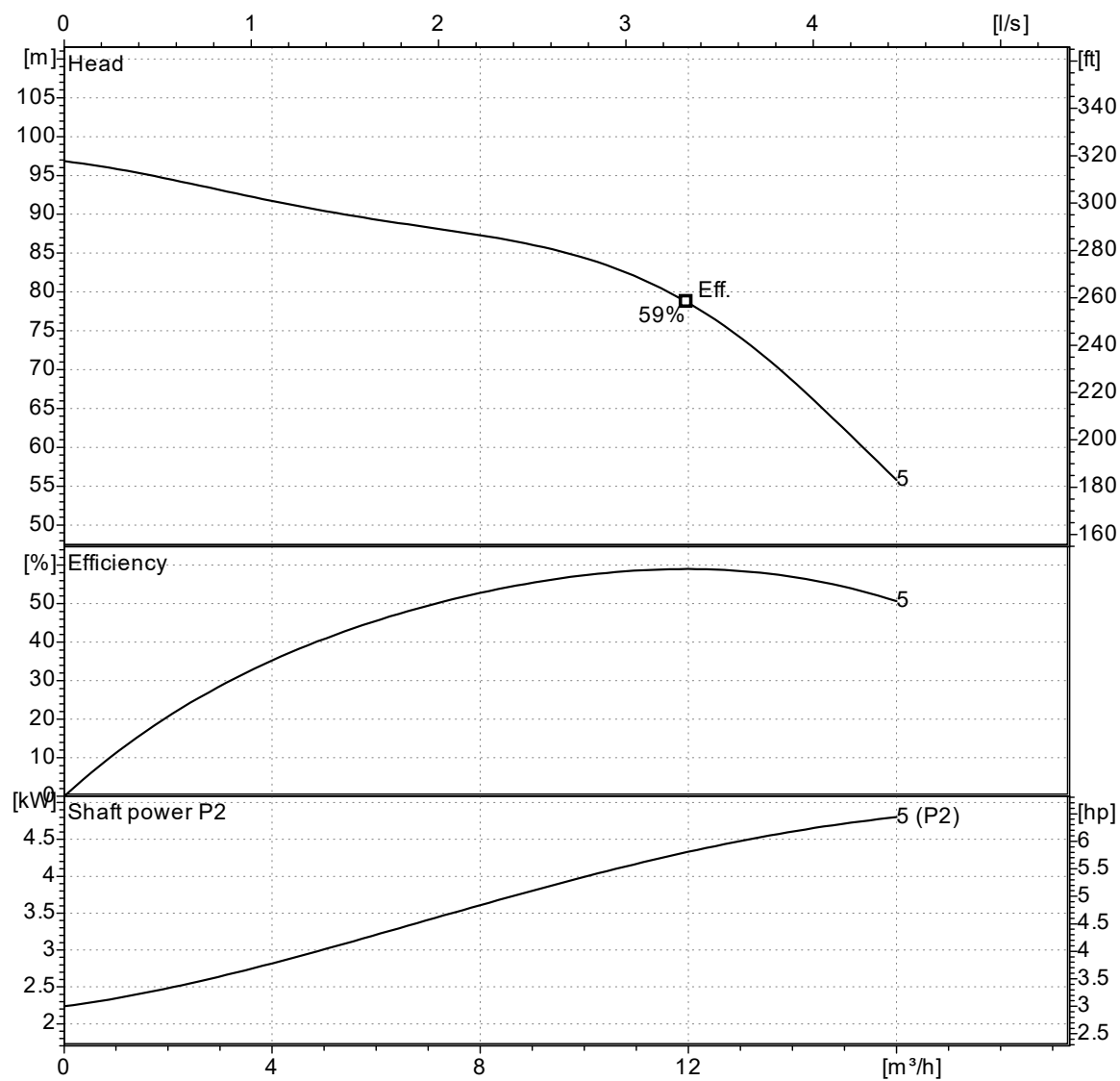
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Curves compatible with ISO 9906:2012 Gr 3B

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Motor Data

Efficiency Level	:	
Motor type	:	Three-Phase Asynchronous Motor
Motor Power	:	5.5 kW
Rated Speed	:	2900 rpm
Voltage	:	400 V
Rated Current	:	11.10 A
Frequency	:	50 Hz
Motor Phase	:	3
Service Factor	:	1.00
Insulation Class	:	F
Degree of Protection	:	IP 54
Efficiency	:	84.7 %
Power factor	:	0.88