

DATA SHEET

Company		Date	31/01/2023
Project		Item	
		Ref No.	

SNSM 100-400-45

Horizontal, single stage, radially split, closed-coupled, volute casing type conforming to EN 733 and EU 547/2012

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 387 mm	Motor Power	: 45.00 kW
NPSHr	:	Nominal Speed	: 1470 rpm
Shut Off Head	: 52.5 m		

Liquid Data

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

Pump Data

Design	: Single Stage, End Suction, Monoblock		
Installation	: Horizontal	Direction Of Rotation	: Clockwise from the drive end
Suction Flange	: EN 1092 PN 16-DN 125	Impeller Type	:
Discharge Flange	: EN 1092 PN 16-DN 100	Type of Shaft Sealing	: Mechanical Seal
Pressure rating	: PN10		

Minimum Efficiency Index (MEI) >= 0,4

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	1.4021 / X20Cr13 / ASTM A276 Type 420
Mechanical Seal Sleeve	1.4021 / X20Cr13 / ASTM A276 Type 420
Motor Pedestal	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B

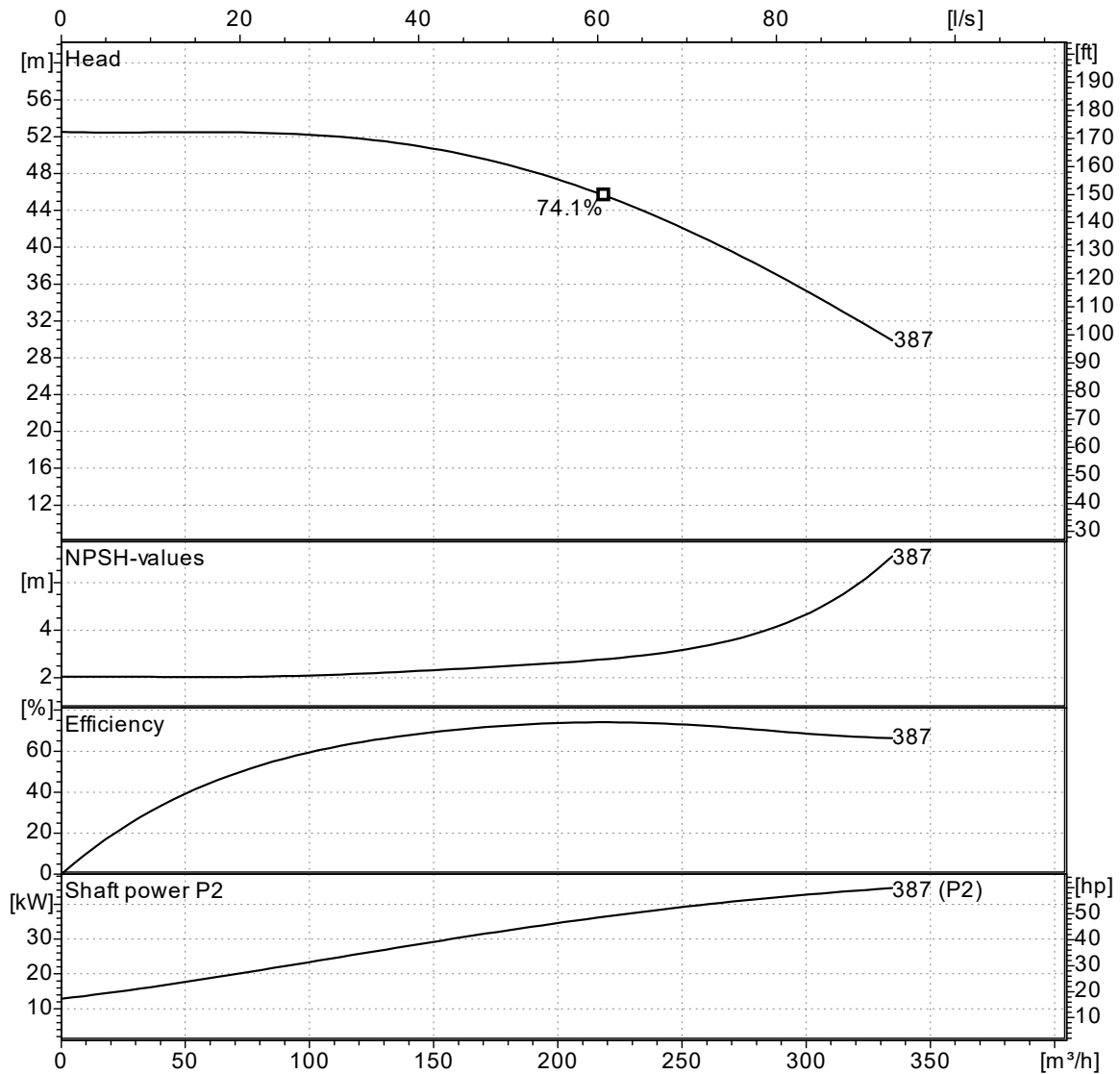
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Capacity:		NPSHr:	
Head:		Motor Power:	45.00 kW
Efficiency (%):		Nominal Speed:	1470 rpm
Power at Duty Point:		Frequency:	50 Hz
Viscosity:	1.005 cSt	Density:	998.30 kg/m ³



Curves compatible with ISO 9906:2012 Gr 3B

NPSHa > NPSHr + 1m

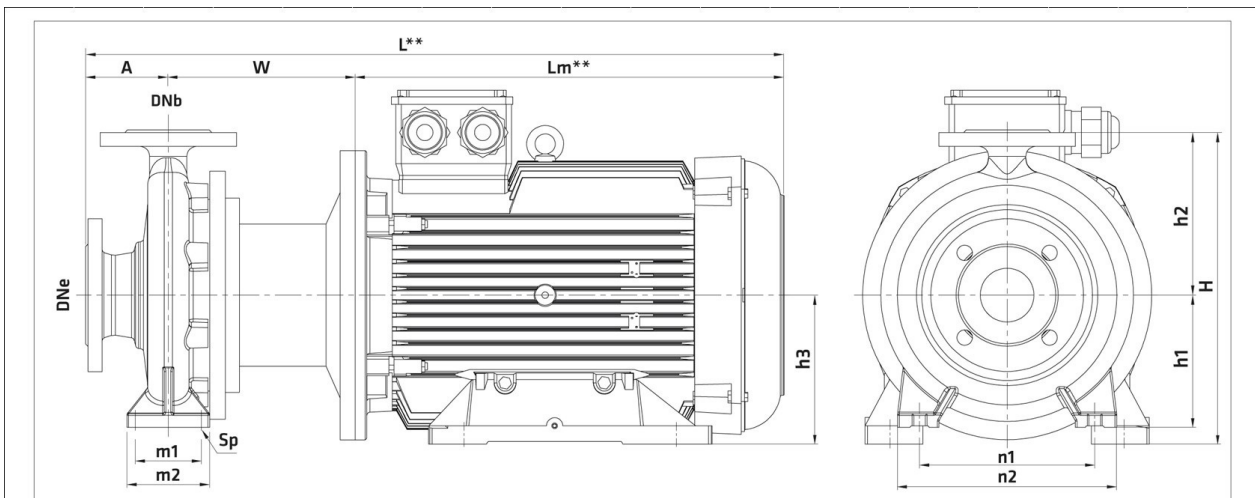
Note : The motor power is not sufficient for dotted area.

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Pump Dimensions



** Ölçüler motor üreticisine göre değişkenlik gösterebilir. / ** Differs according to motor manufacturer.

1500 rpm

	Motor		(mm)														
	kW	IEC	DNe	DNb	A	W	Lm**	L**	H	h1	h2	h3	m1	m2	n1	n2	Sp
100-400	22	180L	125	100	140	245	519	904	635	280	355	180	150	200	400	500	19
100-400	30	200L	125	100	140	245	555	940	635	280	355	200	150	200	400	500	19
100-400	37	225M	125	100	140	305	625	1070	635	280	355	200	150	200	400	500	19
100-400	45	225M	125	100	140	305	625	1070	635	280	355	225	150	200	400	500	19
100-400	55	250M	125	100	140	305	746	1195	635	280	355	250	150	200	400	500	19
100-400	75	280M	125	100	140	305	885	1330	635	280	355	280	150	200	400	500	19
100-400	90	280M	125	100	140	305	885	1330	635	280	355	280	150	200	400	500	19

Flange Dimensions



Suction Flange

AB = 125
Df = 250
k = 210
n = 8
s = 19

Discharge Flange

AB = 100
Df = 220
k = 180
n = 8
s = 19

" n " number of holes

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Motor Data

Efficiency Level :
 Motor type : Three-Phase Asynchronous Motor
 Motor Power : 45.0 kW
 Rated Speed : 1450 rpm
 Voltage : 400 V
 Rated Current : 0.00 A
 Frequency : 50 Hz
 Motor Phase : 3
 Service Factor : 1.15
 Insulation Class : F
 Degree of Protection : IP 55
 Efficiency : - %
 Power factor : 0.00