

DATA SHEET

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

SNSM 80-160-2.2

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 | : 166 mm | Motor Power | : 2.20 kW |
| NPSHr | : | Nominal Speed | : 1435 rpm |
| Shut Off Head | : 8.3 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 100 | Impeller Type | : Radial impeller |
| Discharge Flange | : EN 1092 PN 16-DN 80 | 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 |

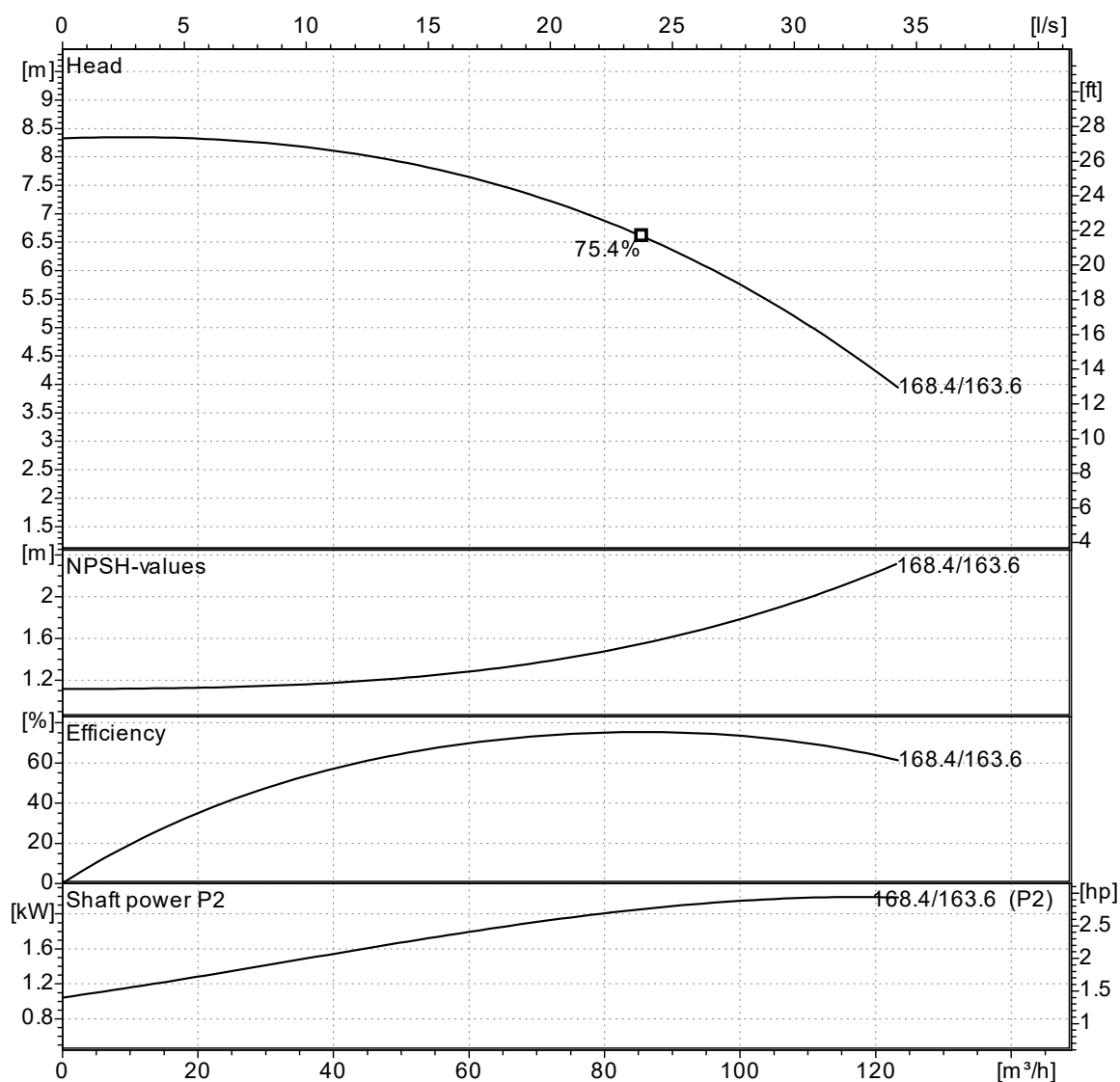
Operating Point Data

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| | | | |
|----------------------|--|----------------|--------------------------|
| Capacity: | | NPSHr: | |
| Head: | | Motor Power: | 2.20 kW |
| Efficiency (%): | | Nominal Speed: | 1435 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 değişiklik gösterebilir. / ** Differs according to motor manufacturer.

| 3000 rpm | | | | | | | | | | | | | | | | | |
|----------|-------|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| | Motor | | (mm) | | | | | | | | | | | | | | |
| | kW | IEC | DNe | DNb | A | W | Lm** | L** | H | h1 | h2 | h3 | m1 | m2 | n1 | n2 | Sp |
| 80-160 | 11 | 160M | 100 | 80 | 125 | 226 | 466 | 817 | 405 | 180 | 225 | 160 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 15 | 160L | 100 | 80 | 125 | 226 | 466 | 817 | 405 | 180 | 225 | 160 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 18,5 | 160L | 100 | 80 | 125 | 226 | 466 | 817 | 405 | 180 | 225 | 160 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 22 | 180M | 100 | 80 | 125 | 226 | 519 | 870 | 405 | 180 | 225 | 180 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 30 | 200L | 100 | 80 | 125 | 226 | 555 | 906 | 425 | 180 | 225 | 200 | 95 | 125 | 250 | 320 | 14 |

| 1500 rpm | | | | | | | | | | | | | | | | | |
|----------|-------|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|----|-----|-----|-----|----|
| | Motor | | (mm) | | | | | | | | | | | | | | |
| | kW | IEC | DNe | DNb | A | W | Lm** | L** | H | h1 | h2 | h3 | m1 | m2 | n1 | n2 | Sp |
| 80-160 | 1,5 | 90L | 100 | 80 | 125 | 156 | 266 | 548 | 405 | 180 | 225 | 90 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 2,2 | 100L | 100 | 80 | 125 | 179 | 292 | 596 | 405 | 180 | 225 | 100 | 95 | 125 | 250 | 320 | 14 |
| 80-160 | 3 | 100L | 100 | 80 | 125 | 179 | 292 | 596 | 405 | 180 | 225 | 100 | 95 | 125 | 250 | 320 | 14 |

Flange Dimensions



Suction Flange

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

Discharge Flange

AB = 80
Df = 200
k = 160
n = 8
s = 19

" n " number of holes

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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