

DATA SHEET

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

SNSM 80-250-37

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 | : 380 V |
| Impeller Diameter | : 212 mm | Motor Power | : 37.00 kW |
| NPSHr | : | Nominal Speed | : 2970 rpm |
| Shut Off Head | : 63.8 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 |

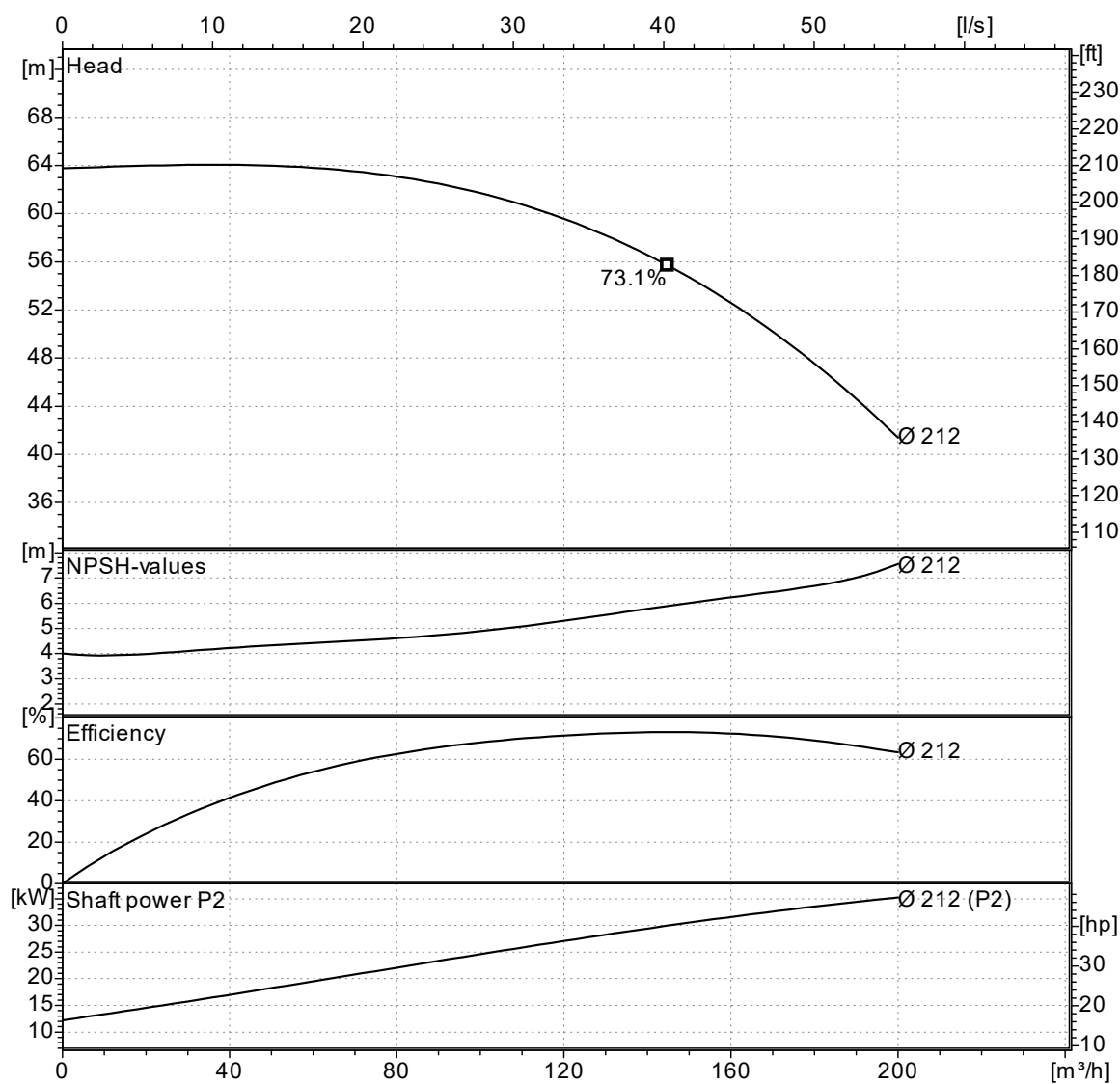
Operating Point Data

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|----------------------|--|----------------|--------------------------|
| Capacity: | | NPSHr: | |
| Head: | | Motor Power: | 37.00 kW |
| Efficiency (%): | | Nominal Speed: | 2970 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.

| 3000 rpm | | | | | | | | | | | | | | | | | |
|----------|-------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | Motor | | DNe | DNb | A | W | Lm** | L** | H | h1 | h2 | h3 | m1 | m2 | n1 | n2 | Sp |
| | kW | IEC | | | | | | | | | | | | | | | |
| 80-250 | 37 | 200L | 100 | 80 | 125 | 246 | 555 | 926 | 480 | 200 | 280 | 200 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 45 | 225M | 100 | 80 | 125 | 248 | 625 | 998 | 505 | 200 | 280 | 225 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 55 | 250M | 100 | 80 | 125 | 294 | 753 | 1172 | 530 | 200 | 280 | 250 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 75 | 280M | 100 | 80 | 125 | 294 | 885 | 1304 | 560 | 200 | 280 | 280 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 90 | 280M | 100 | 80 | 125 | 294 | 885 | 1304 | 560 | 200 | 280 | 280 | 120 | 160 | 315 | 400 | 19 |
| 1500 rpm | | | | | | | | | | | | | | | | | |
| | Motor | | DNe | DNb | A | W | Lm** | L** | H | h1 | h2 | h3 | m1 | m2 | n1 | n2 | Sp |
| | kW | IEC | | | | | | | | | | | | | | | |
| 80-250 | 4 | 112M | 100 | 80 | 125 | 189 | 336 | 650 | 480 | 200 | 280 | 112 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 5,5 | 132M | 100 | 80 | 125 | 214 | 396 | 735 | 480 | 200 | 280 | 132 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 7,5 | 132M | 100 | 80 | 125 | 214 | 396 | 735 | 480 | 200 | 280 | 132 | 120 | 160 | 315 | 400 | 19 |
| 80-250 | 11 | 160M | 100 | 80 | 125 | 244 | 466 | 835 | 480 | 200 | 280 | 160 | 120 | 160 | 315 | 400 | 19 |

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 : 37.0 kW
 Rated Speed : 2950 rpm
 Voltage : 380 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