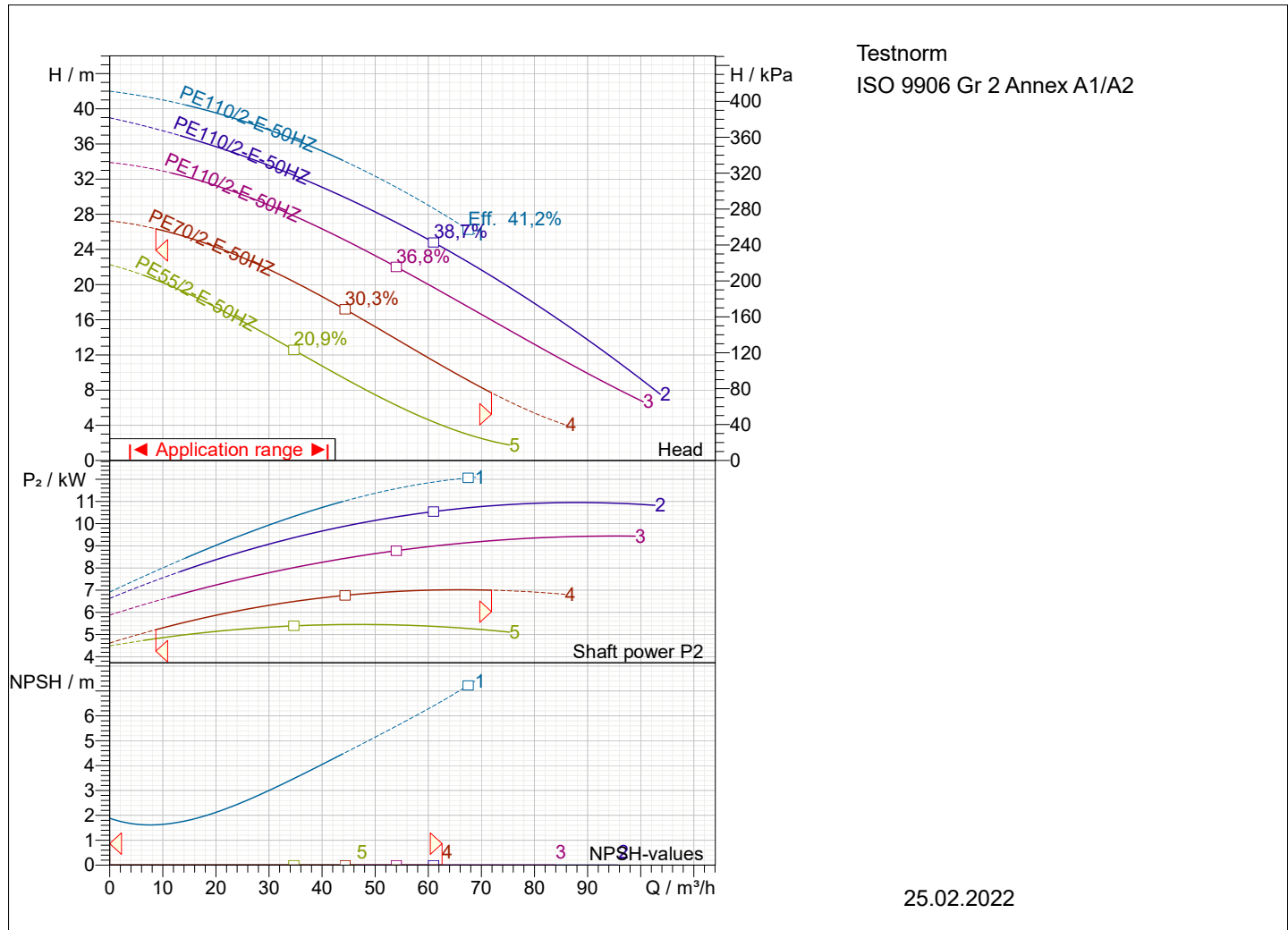


Product description

| Pos.no | Description | Item no. | Quant. | Unit pr. [EUR] | Gross price [EUR] |
|--------|---|----------|----------|----------------|-------------------|
| | XFP 81E VX 50HZ | | 1 | | |
| | XFP 81E VX | | 1 | On req. | On req. |
| | <p>XFP</p> <p>ABS EffeX XFP range of submersible pumps (PE1 to PE3) are supplied for reliable and economic pumping of clear water, polluted water and heavily polluted sewage containing solids, faecal slurry and sludge in commercial, industrial and municipal application. Driven by Premium Efficiency IE3 motor in according with IEC 60034-30, exceeding CEMEP EFF 1. Motor insulation according to Class H, temperature rise according to Class A. Explosion proof as standard, ATEX, FM and CSA. Continuously rated motor suitable for wet and dry installation as standard.(PE1 and PE2) PE3 has the option of internal closed loop cooling system for dry installation. Equipped with temperature and moisture sensors as standard. Standard sewage hydraulic with Contrablock plus gives enhanced levels of blockage resistance and excellent rag handling with large free solids passage of 75 mm minimum.</p> <p>50Hz Capacity up to 750 m3/h Head, max. 74 m</p> <p>60Hz Capacity up to 3500 US g.p.m. Head, max. 330ft</p> <p>Type: XFP 81E VX</p> <p>Technical data</p> <p>Delivery rate : Delivery head : Hydr. efficiency : Total efficiency : Shaft power : Speed : Impeller type : Vortex impeller Motor output : 7 kW Voltage : 400 V Frequency : 50 Hz Suction outlet : DN80 Discharge outlet : DN80</p> | | | | |

XFP 81E VX 50HZ

Testnorm
ISO 9906 Gr 2 Annex A1/A2



25.02.2022

| | | | |
|-------------------------------------|-----------------|----------------------|------------------|
| Operating data specification | | Head | |
| Flow | | Shaft power | |
| Efficiency | | Fluid | Water |
| NPSH | | Nature of system | Single head pump |
| Temperature | 20 °C | | |
| No. of pumps | 1 | | |
| Pump data | | Make | |
| Type | XFP 81E VX 50HZ | Impeller | ABS |
| Series | XFP PE1-PE3 | Impeller size | Vortex impeller |
| N° of vanes | 6 | Suction port | 160 mm |
| Free passage | 65 mm | | DN80 |
| Discharge port | DN80 | | |
| Motor data | | Frequency | |
| Rated voltage | 400 V | Nominal Speed | 50,0 Hz |
| Rated power P2 | 7 kW | Efficiency | 2930 1/min |
| Number of poles | 2 | Rated current | 90,4 % |
| Power factor | 0,83 | Rated torque | 13,5 A |
| Starting current | 106 A | Degree of protection | 22,8 Nm |
| Starting torque | 65 Nm | | <IP 68> |
| Insulation class | H | | |



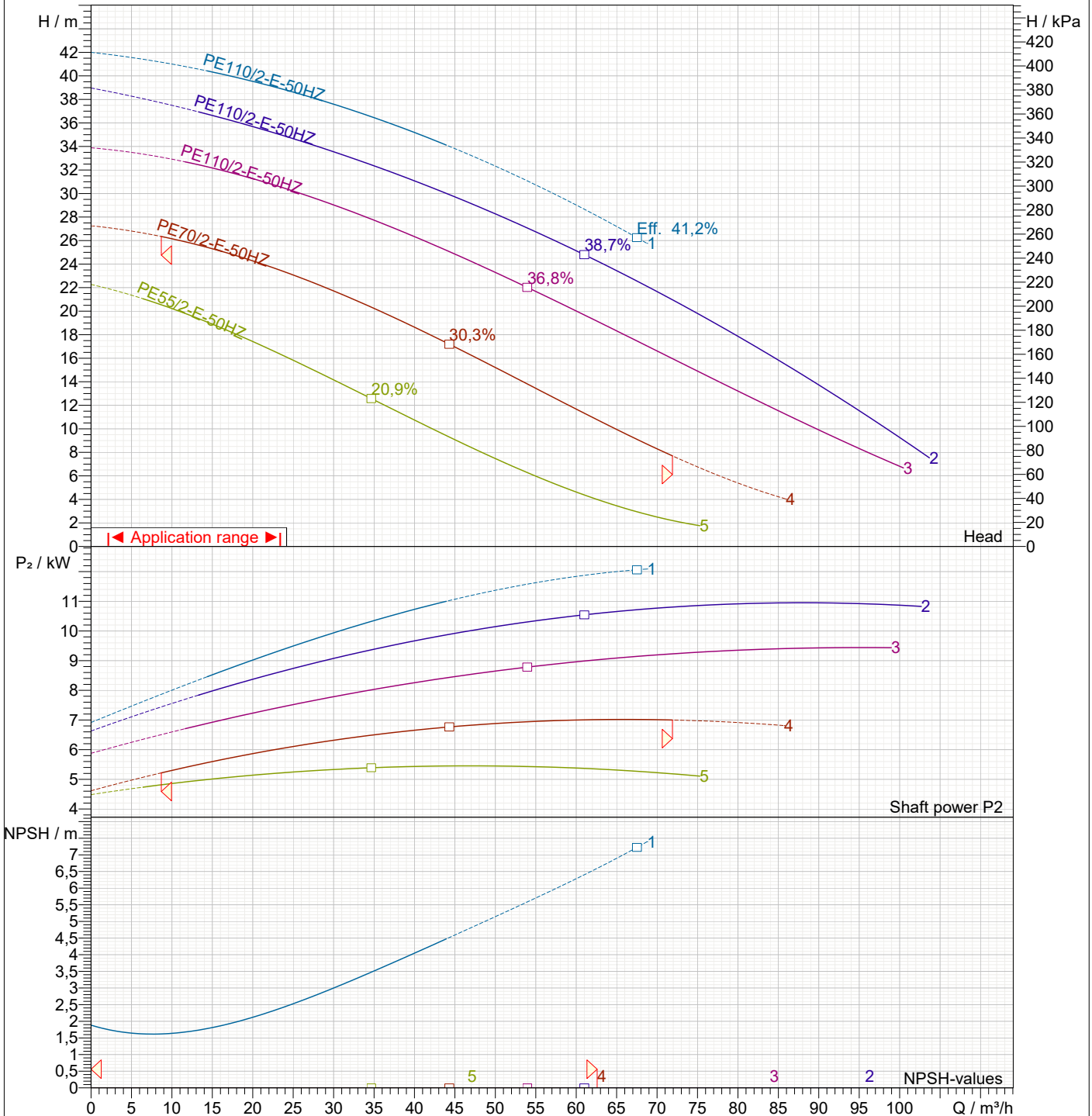
Pump performance curves

XFP 81E VX 50HZ

Curve number

Reference curve
XFP81E VX 50HZ

| | | | | |
|------------------------------------|---------------------------------------|---------------------------------------|---------------------------|--------------------|
| | | | Discharge DN80 | Frequency 50 Hz |
| Density 998,3 kg/m ³ | Viscosity 1,005 mm ² /s | Testnorm ISO 9906 Gr 2 Annex A1/A2 | Rated speed 2930 1/min | Date 25.02.2022 |
| Flow | Head | Rated power | Hydraulic efficiency | NPSH |



| | | | | |
|-------------------------|------------------|-----------------------------|---------------------|----------|
| Impeller size 160 mm | N° of vanes 6 | Impeller Vortex impeller | Solid size 65 mm | Revision |
|-------------------------|------------------|-----------------------------|---------------------|----------|

ABS reserves the right to change any data and dimensions without prior notice and can not be held responsible for the use of information contained in this software.

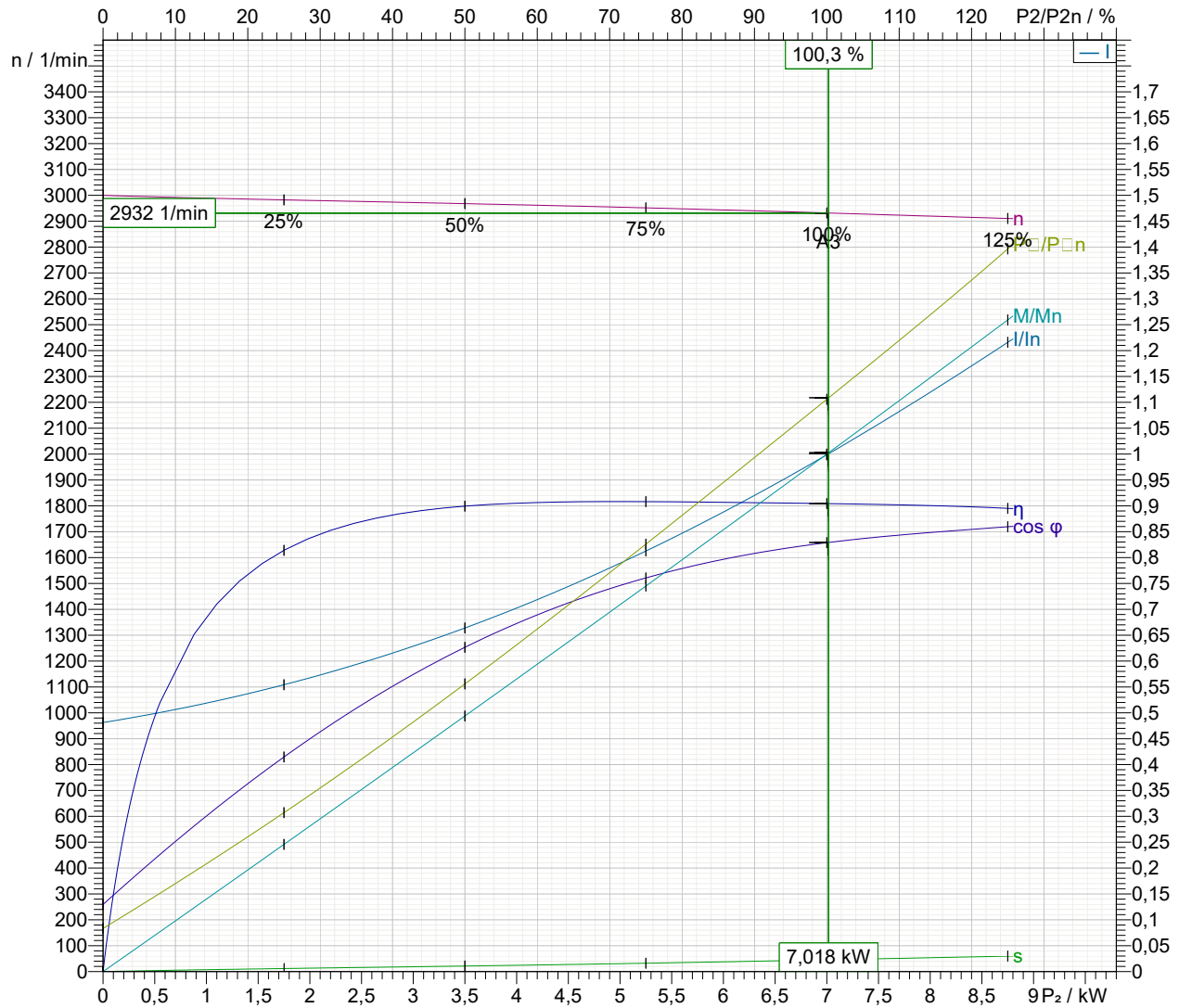
SPAIX® 4.0.2 - 09.01.2012 (Build 1008)

Motor performance curve

PE70/2-E-50HZ

Frequency
50 Hz

| | | | | | |
|---------------------|---------------------|-----------------------------|----------------------|------------------------|--------------------|
| Rated power 7 kW | Service factor 1 | Nominal Speed 2930 1/min | Number of poles 2 | Rated voltage 400 V | Date 25.02.2022 |
|---------------------|---------------------|-----------------------------|----------------------|------------------------|--------------------|



| Symbol | No load | 25 % | 50 % | 75 % | 100 % | 125 % |
|-------------|-----------|--------|--------|--------|--------|--------|
| P_1 / kW | 0,5836 | 2,15 | 3,891 | 5,782 | 7,741 | 9,776 |
| P_2 / kW | 0 | 1,75 | 3,5 | 5,25 | 7 | 8,75 |
| I / A | 6,497 | 7,483 | 8,964 | 10,97 | 13,48 | 16,41 |
| $\cos \phi$ | 0,1297 | 0,4146 | 0,6266 | 0,7607 | 0,8288 | 0,8596 |
| n / 1/min | 3000 | 2982 | 2968 | 2952 | 2932 | 2911 |
| s / % | 0,0002695 | 0,5843 | 1,069 | 1,613 | 2,268 | 2,98 |
| η / % | 0 | 81,4 | 89,94 | 90,8 | 90,43 | 89,51 |

Tolerance according to VDE 0530 T1 12.84 for rated power

| | | |
|---------------------------|--------------------------|--|
| Starting current 106 A | Starting torque 65 Nm | Moment of inertia 0,005 kg m ² |
|---------------------------|--------------------------|--|