EBARA

Technical Data

# 3M4

4 Pole Models
1450 RPM

# Stainless Steel End Suction Pumps

## (DIN 24255)

*Click here to open Interactive contents and instructions page*

**Monobloc Design**
**304 Stainless Steel**

# CONTENTS

4 POLE 50 Hz

V20





Instructions

# SPECIFICATIONS - FEATURES & APPLICATIONS

V20

These series of stainless steel pumps feature a unique one piece volute casing that are produced using an advanced computer controlled plasma stamping system that ensures total quality control during manufacture. With the smooth surfaces of stamped stainless steel, this results in consistent high standard products, of superior quality and high efficiency.

## Features

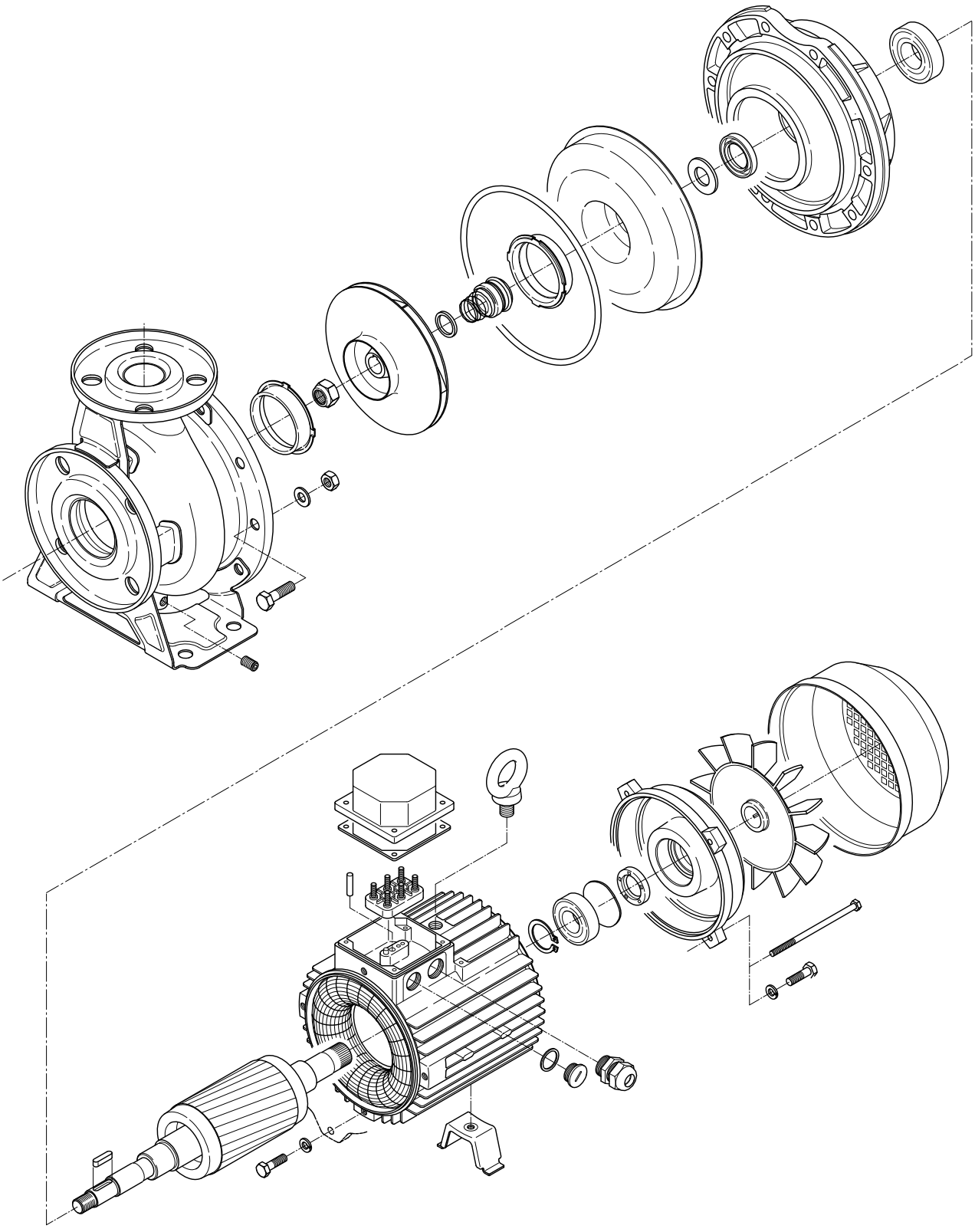
- Stainless steel liquid end components
  - High quality; corrosion resistance.
  - Manufactured in Stamped 304 Stainless Steel.
- Economical extended motor shaft design.
- High quality mechanical shaft seals and o-rings
  - Fitted standard with Carbon/Carbon/NBR mechanical seal.
- Close coupled design
  - Saves space; simplifies maintenance and installation.
- Back pullout construction
  - Assembly and overhaul of the impeller and seal without disturbing suction and discharge connections.
- High operating efficiency
  - Lowers operating costs.
- Top centerline discharge and foot support under casing
  - Ensures self-venting and reduces misalignment from pipe loads.

## Applications

- Plant services
- Water supply systems
- Washing plants
- Cooling water
- Air conditioning
- Sprinkler/flow irrigation
- OEM equipment application
- Pressure boosting
- Liquid transfer
- Heat exchanger
- Spray systems
- Heating
- Water reclamation and treatment

# SPECIFICATIONS - TYPICAL CROSS SECTIONAL VIEW

V20



## PUMP SPECIFICATIONS

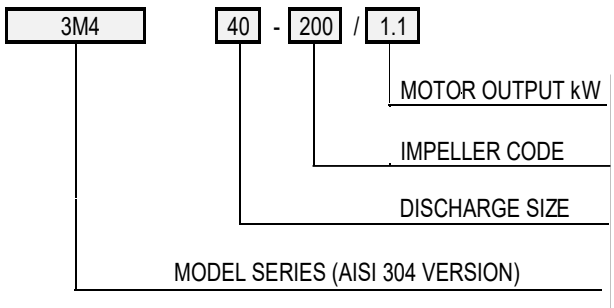
4 POLE 50 Hz

V20

| PUMP | | | | |
|---|---|---|---|---|
| Version | | | | 3M |
| Liquid Handled | Type of Liquid | | | Clean Water |
| | Temperature [ºC] | | | min. -10<br>max. +90<br>max. +110 (H-HS-version) |
| Maximum working pressure [MPa] | | | | 1 |
| Construction | Impeller | | | Closed centrifugal type for 32, 40, 50 version<br>Reinforced laser welding for 40-200/11, 50-200/15 |
| | Shaft seal type | | | Mechanical seal |
| | Bearing | | | Sealed ball bearing |
| Pipe Connection | Suction | 32-160/200 | | Flange DN50 according to DIN 2532 standard |
| | | 40-125/160/200 | | Flange DN65 according to DIN 2532 standard |
| | | 50-125/160/200 | | Flange DN65 according to DIN 2532 standard |
| | Discharge | 32-160/200 | | Flange DN32 according to DIN 2532 standard |
| | | 40-125/160/200 | | Flange DN40 according to DIN 2532 standard |
| | | 50-125/160/200 | | Flange DN50 according to DIN 2532 standard |
| Material | Casing | | | EN 1.4301 (AISI 304) |
| | Impeller | | | EN 1.4301 (AISI 304) |
| | Casing Cover | | | EN 1.4301 (AISI 304) |
| | Mechanical Seal | | | Ceramic/Carbon/NBR *(Standard)* |
| | O-ring | | | NBR (FPM for H, HS Version) |
| | Shaft | 32, 40,50 | D=19 | EN 1.4301 (AISI 304) |
| | | 50-200/2.2 | D=22 | |
| | Bracket | | | Cast Iron – Aluminium |
| Applicable Standard of test | | | | ISO 9906:2012 – Grade 3B |

| MOTOR – Three Phase | |
|---|---|
| Type | Electric – TEFC<br>Three Phase |
| Efficiency level (Reg. 640/2009) | - from 0.37 kW up to 0.55kW<br>IE2 from0.75 kW up to 2.2 kW |
| No. of Poles | 4 |
| Rotation speed [$min^{-1}$] | ≈ 1400 |
| Insulation Class | F (class B for temperature rise) |
| Protection degree (CEI EN 60034-5) | IP55 |
| Power Rating [kW] | 0.37 – 2.2 |
| Power Rating [HP] | 0.5 – 3.0 |
| Frequency [Hz] | 50 |
| Voltage [V] | 230/400 ± 10% |
| Over load protection | Provided by user |
| Casing material | Aluminium |
| Motor support | Cast iron – Aluminium |
| Dimensions of cable entry | PG11 - PG13.5 - PG16 |

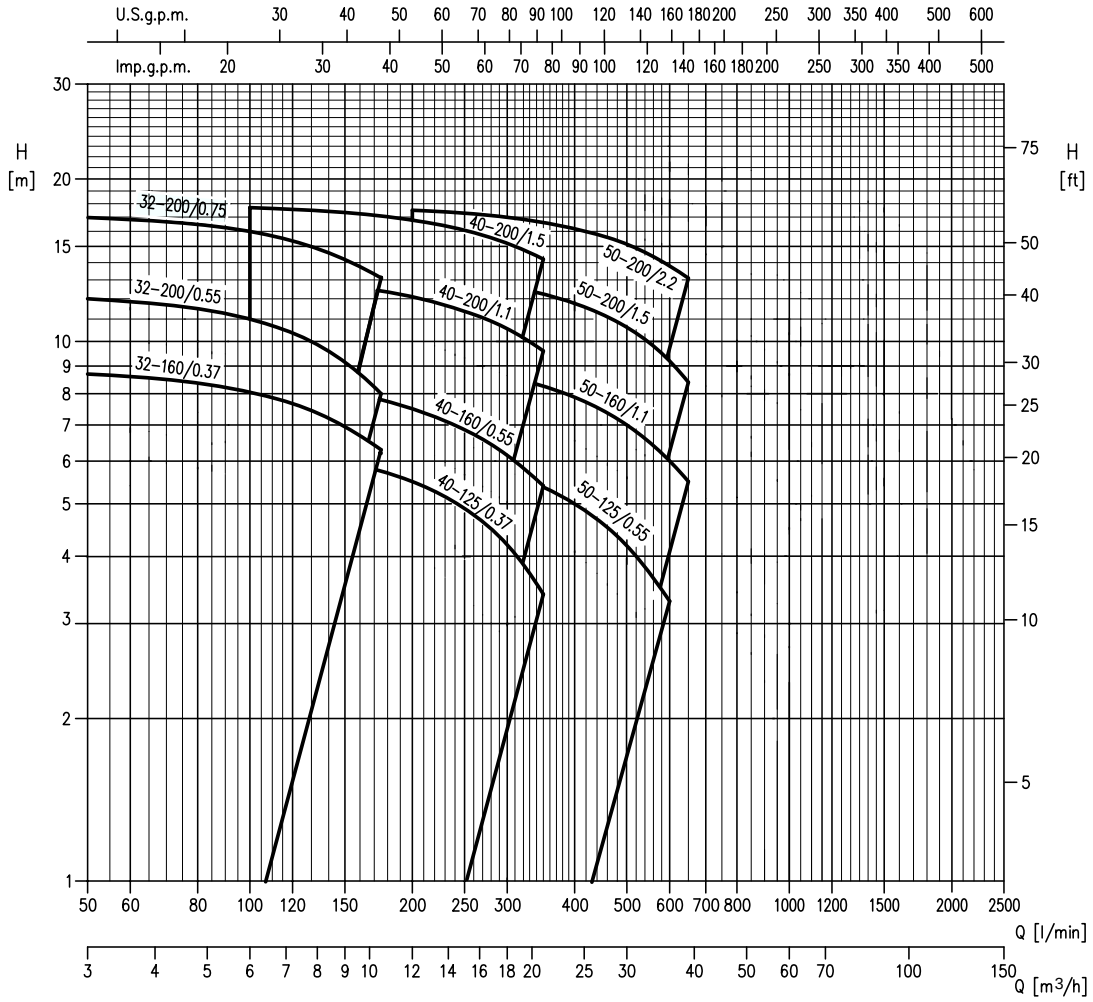
Type Key



## SELECTION CHART

4 POLE 50 Hz

V20




| Pump type | Power | | Capacity | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [kW] | [HP] | l/min 0 | 50 | 100 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 500 | 600 | 650 |
| | | | | 3 | 6 | 9 | 10.5 | 12 | 15 | 18 | 21 | 24 | 30 | 36 | 39 |
| | | | Total head in meters | | | | | | | | | | | | |
| 32-160/0.37 | 0.37 | 0.5 | 9 | 8.7 | 8.1 | 7 | 6.3 | - | - | - | - | - | - | - | - |
| 32-200/0.55 | 0.55 | 0.75 | 12.5 | 12 | 11 | 9.2 | 8 | - | - | - | - | - | - | - | - |
| 32-200/0.75 | 0.75 | 1 | 17.5 | 17.1 | 16.1 | 14.3 | 13.2 | - | - | - | - | - | - | - | - |
| 40-125/0.37 | 0.37 | 0.5 | 6.5 | - | 6.3 | 6 | 5.8 | 5.5 | 4.9 | 4.2 | 3.4 | - | - | - | - |
| 40-160/0.55 | 0.55 | 0.75 | 9.1 | - | 8.6 | 8.1 | 7.8 | 7.5 | 6.9 | 6.2 | 5.4 | - | - | - | - |
| 40-200/1.1 | 1.1 | 1.5 | 13.6 | - | 13.2 | 12.7 | 12.4 | 12.1 | 11.4 | 10.6 | 9.6 | - | - | - | - |
| 40-200/1.5 | 1.5 | 2 | 18 | - | 17.7 | 17.3 | 17.1 | 16.8 | 16.1 | 15.2 | 14.2 | - | - | - | - |
| 50-125/0.55 | 0.55 | 0.75 | 6.4 | - | - | - | - | 6.2 | 6 | 5.7 | 5.4 | 5 | 4.2 | 3.3 | - |
| 50-160/1.1 | 1.1 | 1.5 | 9.5 | - | - | - | - | 9.1 | 8.9 | 8.6 | 8.3 | 7.9 | 7 | 6 | 5.5 |
| 50-200/1.5 | 1.5 | 2 | 14 | - | - | - | - | 13.3 | 13 | 12.7 | 12.2 | 11.8 | 10.6 | 9.2 | 8.4 |
| 50-200/2.2 | 2.2 | 3 | 17.8 | - | - | - | - | 17.5 | 17.3 | 17 | 16.6 | 16.2 | 15.1 | 13.8 | 13.1 |

## SELECTION CHART MEI INDEX

4 POLE 50 Hz

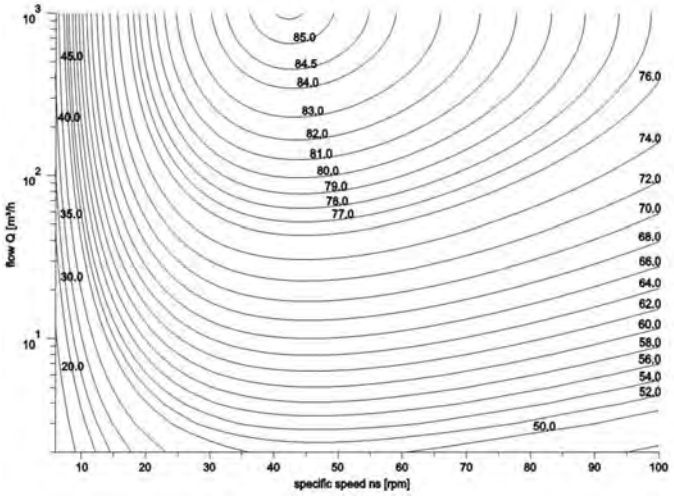
V20

The minimun efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

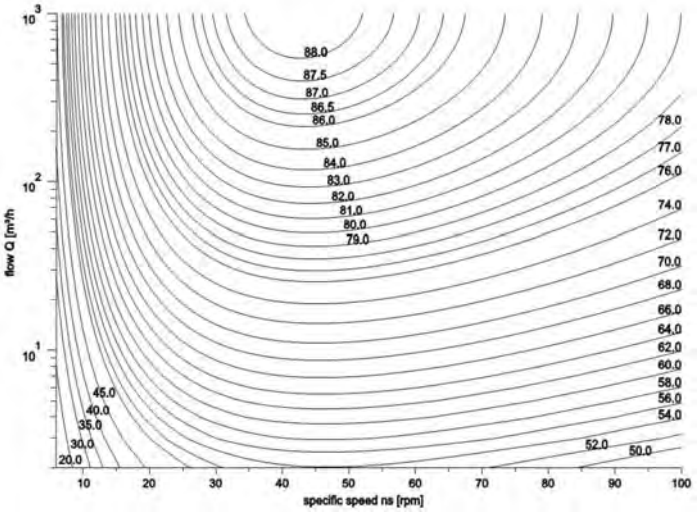
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point,leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variabile duty points may be more efficient end economical when controlled,for example,by the use of a variable speed drive that matches the pump duty to the system

MEI = 0.4 for ESOB 1450




MEI = 0.7 for ESOB 1450 rpm

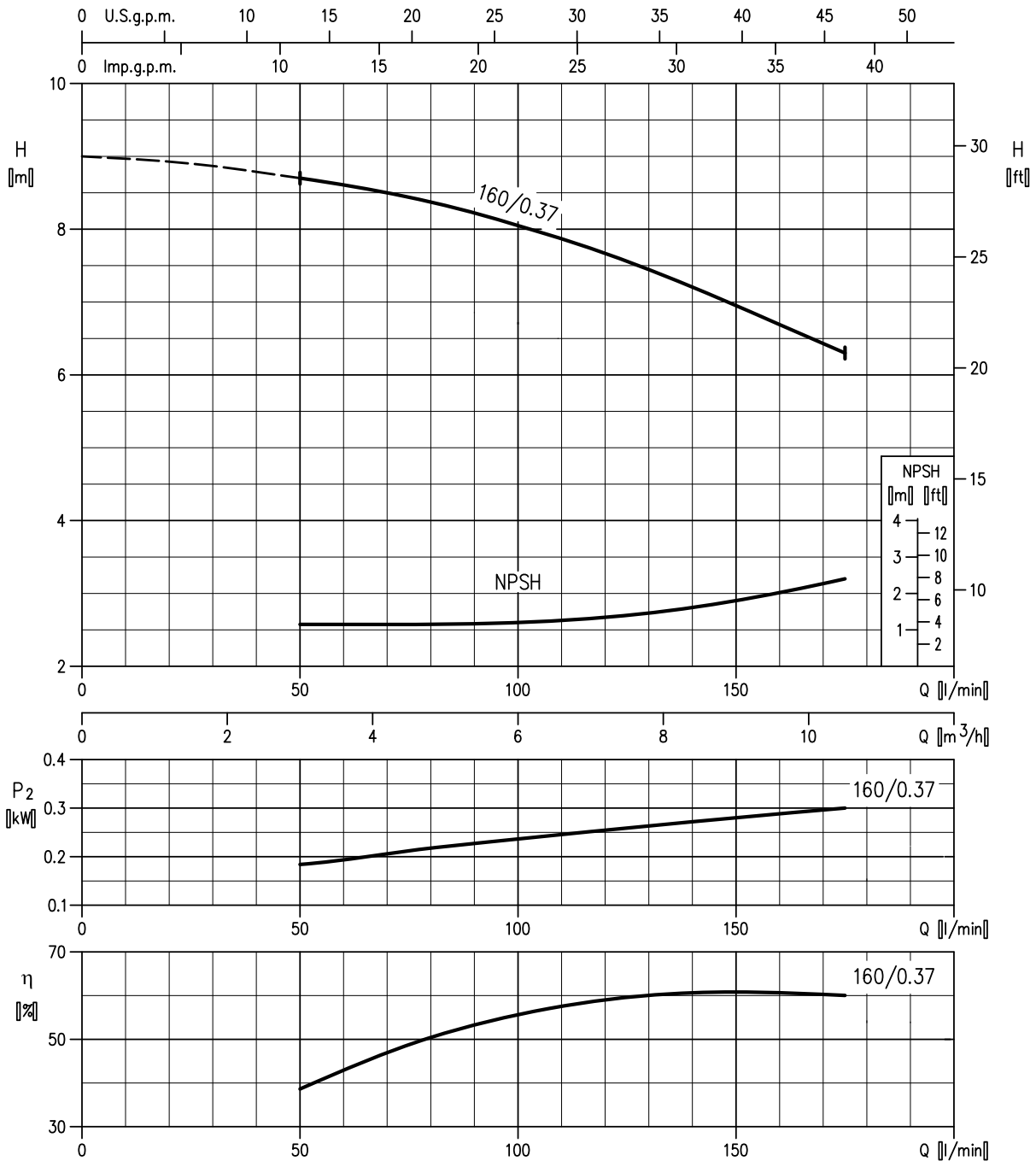


## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**32-160/0.37 (0.37kW) MEI > 0.70 – impeller diameter = 166 mm**



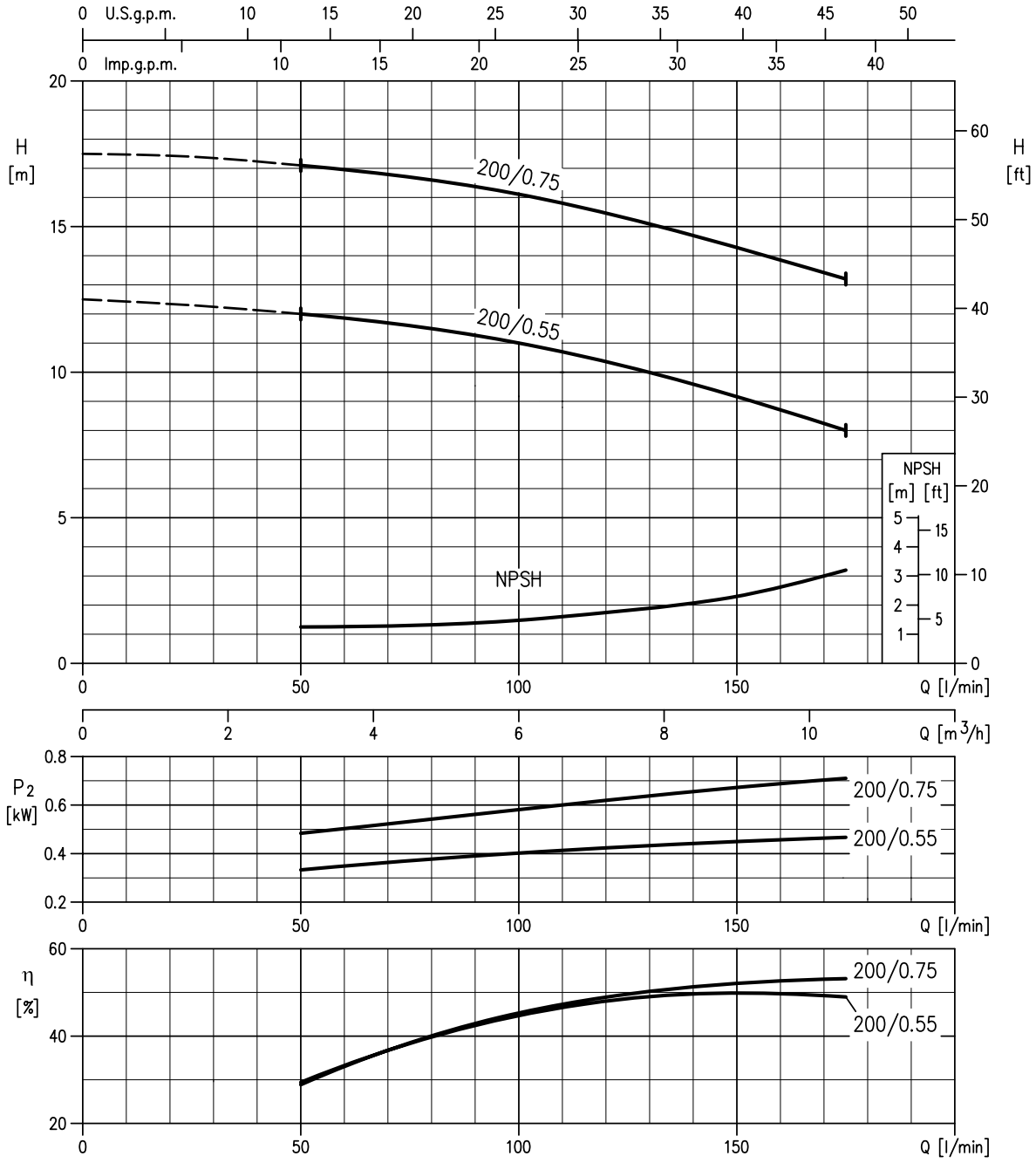

Rotation speed ≈ 1400 $min^{-1}$
Test standard: ISO 9906 – Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**32-200/0.55 (0.55kW) MEI > 0.70 – impeller diameter = 200 mm**
**32-200/0.75 (0.55kW) MEI > 0.70 – impeller diameter = 224 mm**



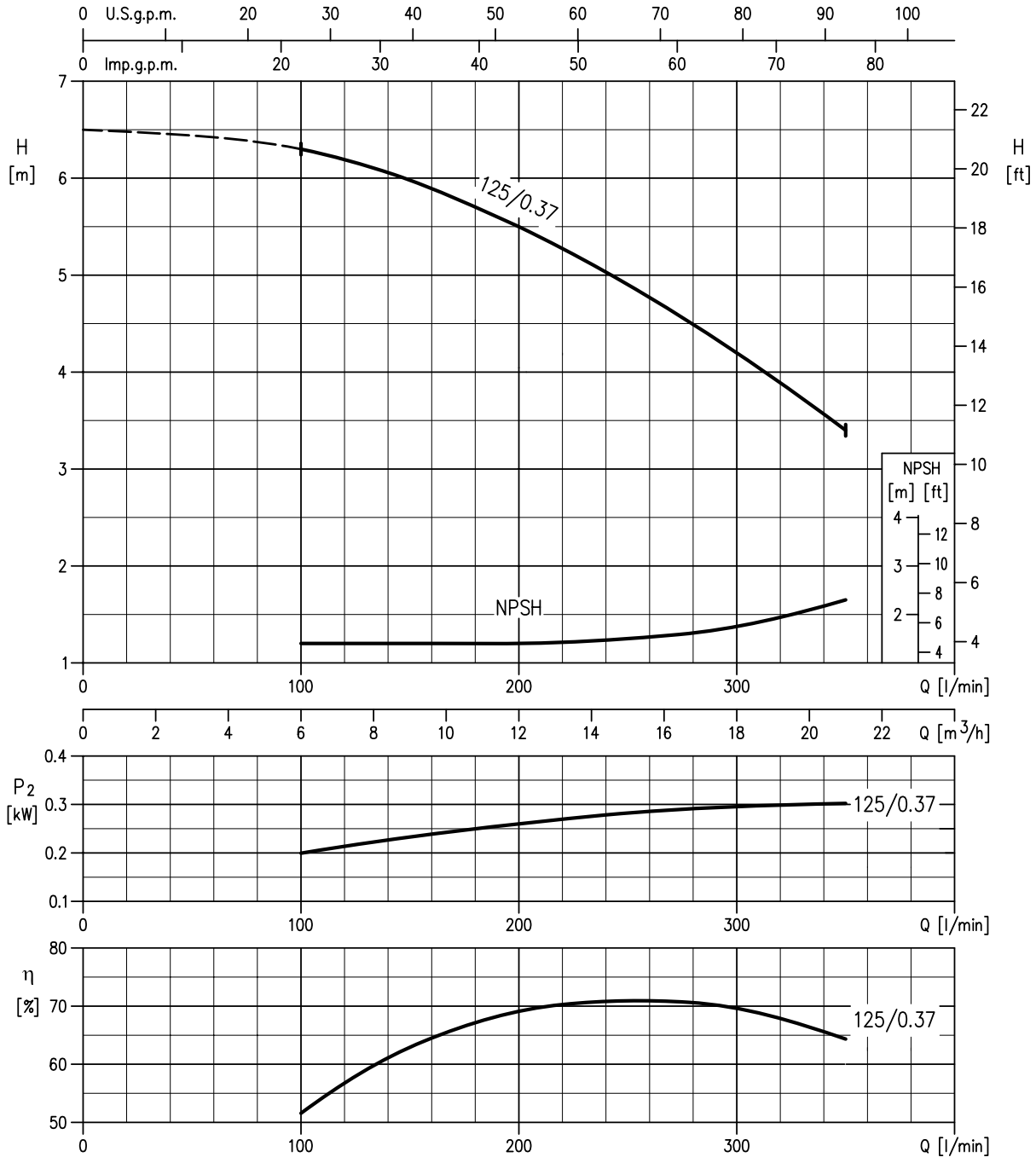

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**40-125/0.37 (0.37 kW) MEI > 0.70 – impeller diameter = 140 mm**



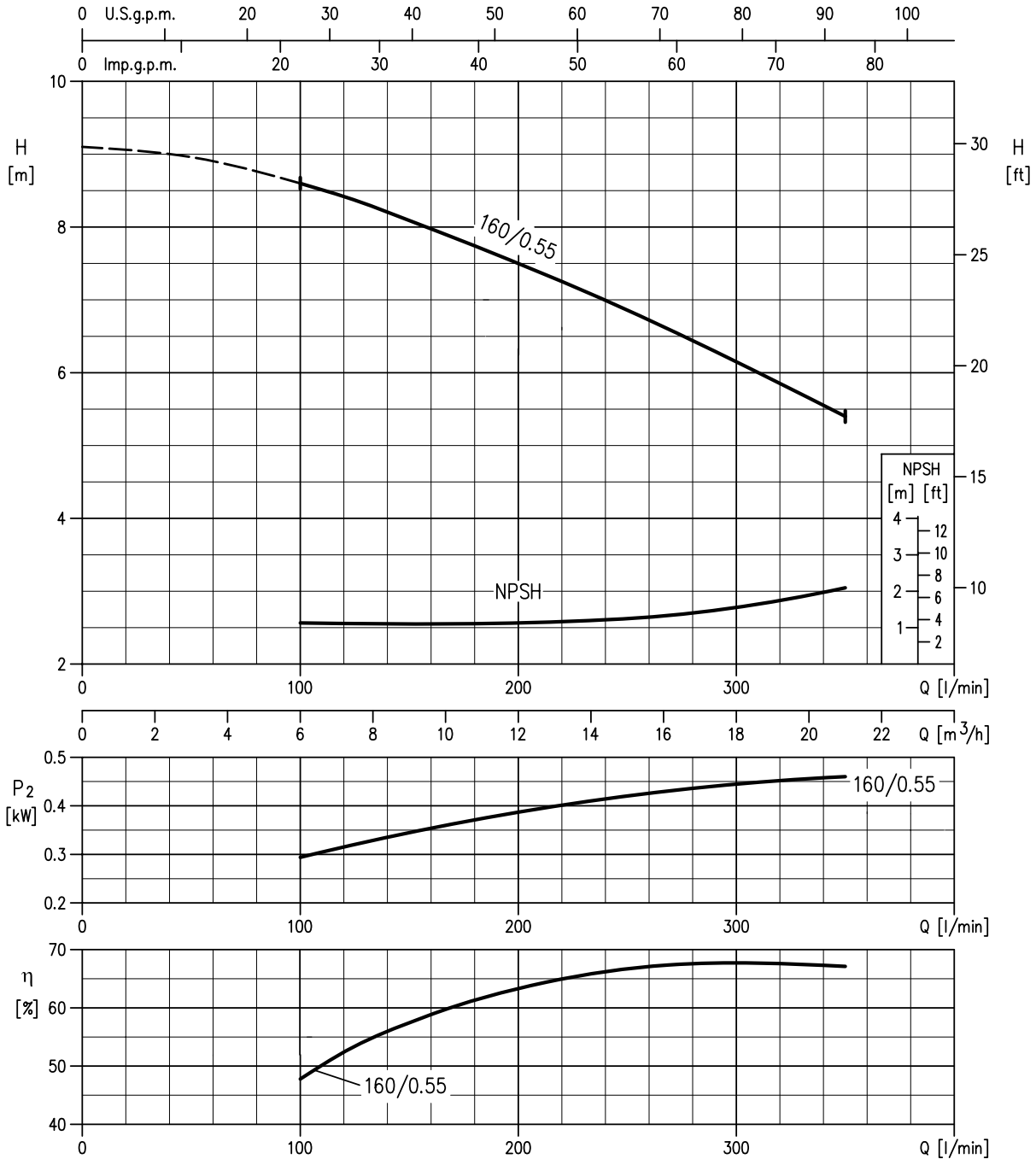

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**40-160/0.55 (0.55 kW) MEI > 0.40 – impeller diameter = 166 mm**



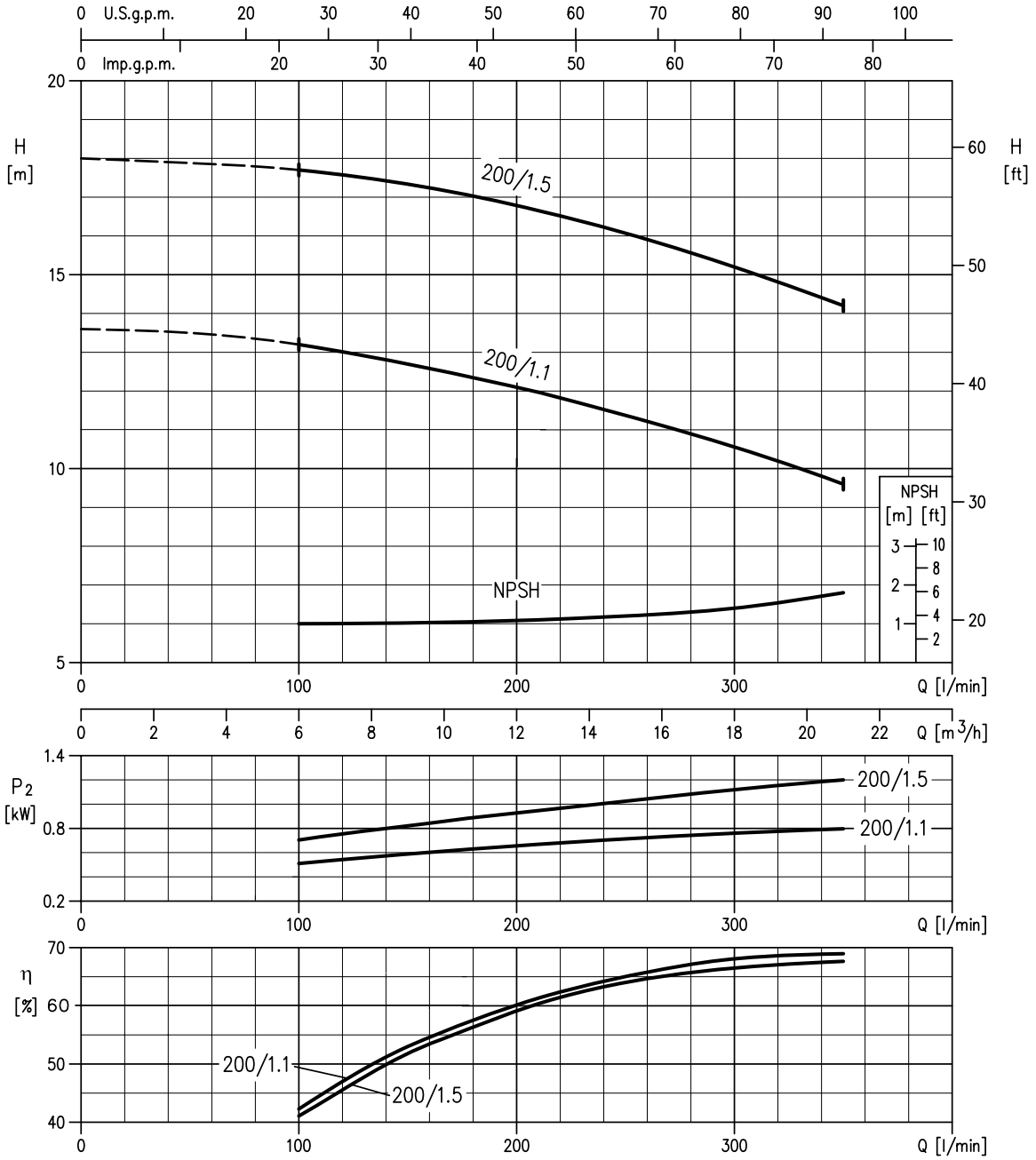

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**40-200/1.1 (1.1 kW) MEI > 0.70 – impeller diameter = 200 mm**
**40-200/1.5 (1.5 kW) MEI > 0.70 – impeller diameter = 224 mm**



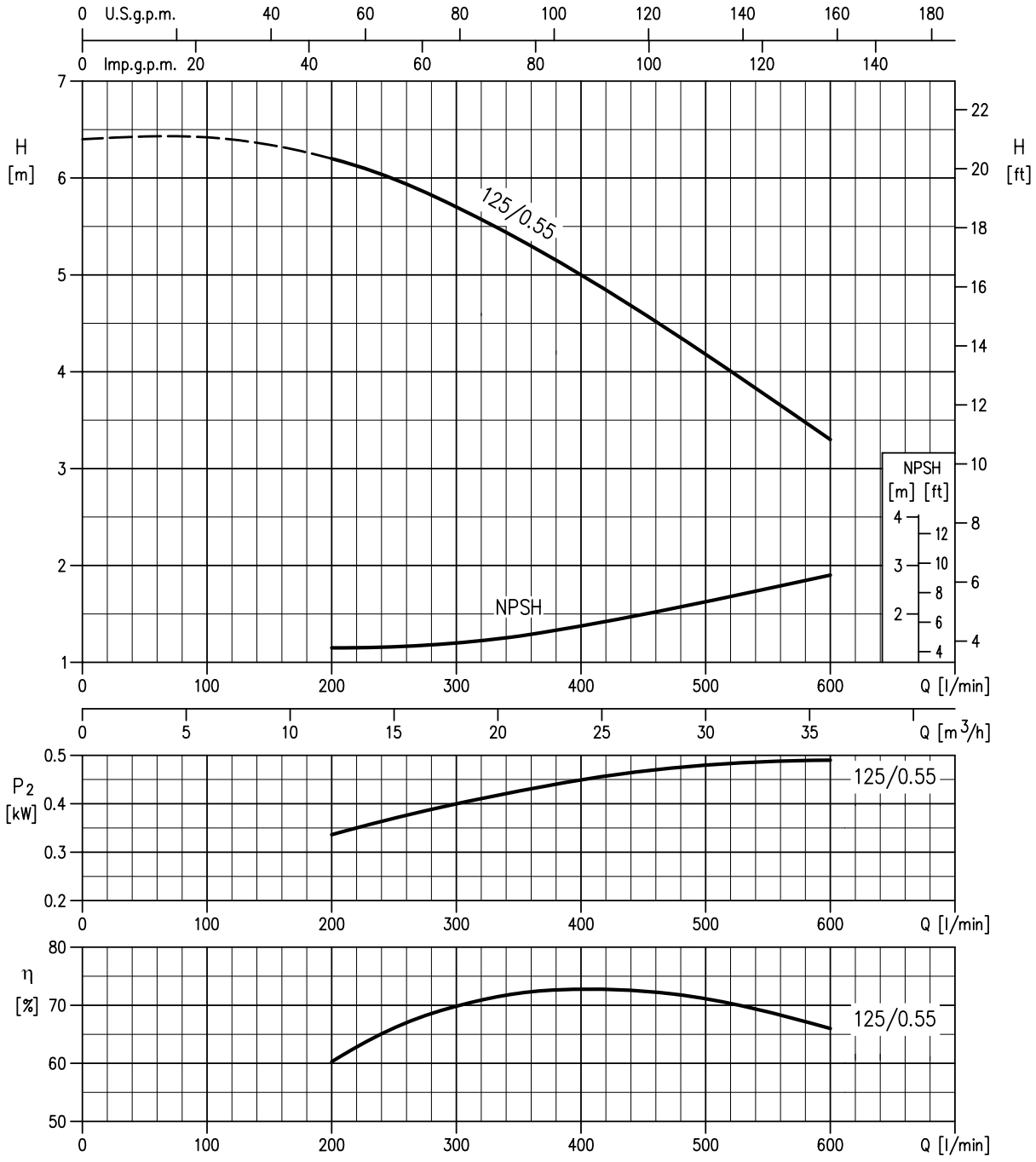

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**50-125/0.55 (0.55 kW) MEI > 0.40 – impeller diameter = 140 mm**



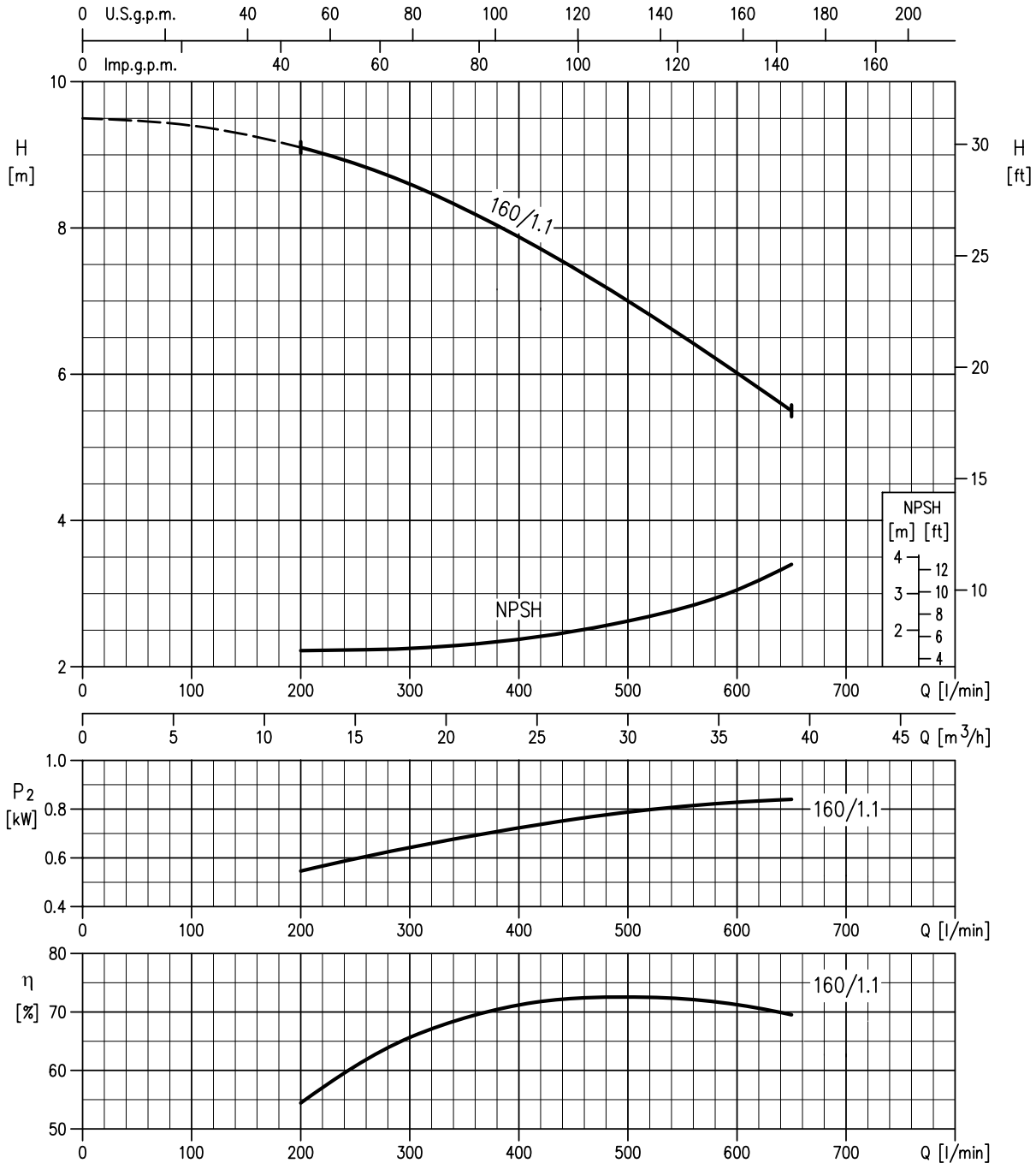

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**50-160/1.1 (1.1 kW) MEI > 0.30 – impeller diameter = 166 mm**



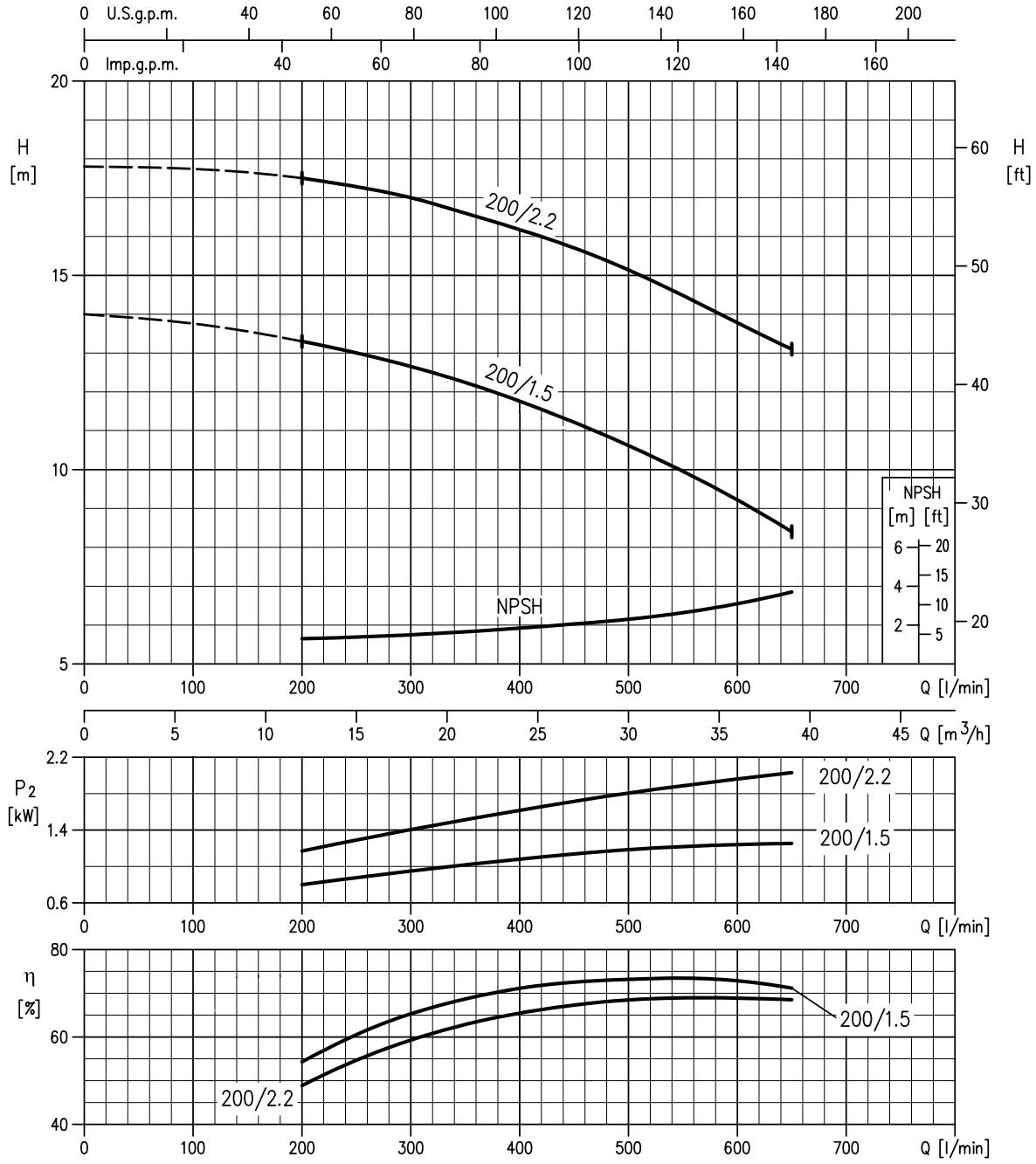

Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## PERFORMANCE CURVE

4 POLE 50 Hz

V20

**50-200/1.5 (1.5 kW) MEI > 0.60 – impeller diameter = 200 mm**
**50-200/2.2 (2.2 kW) MEI > 0.60 – impeller diameter = 224 mm**

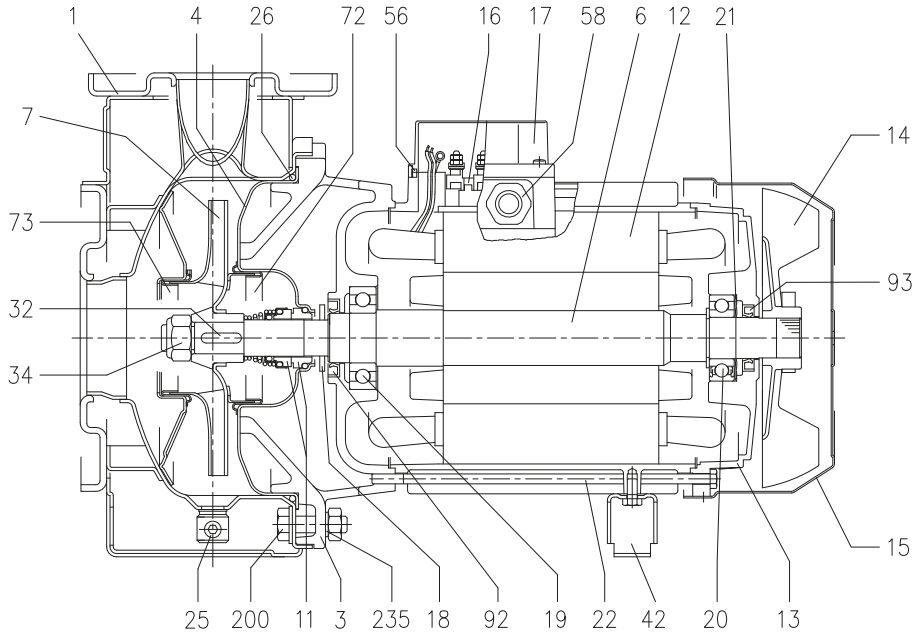



Rotation speed ≈1400 min-1
Test standard : ISO 9906 Annex A

## CONSTRUCTIONS - SECTIONAL VIEW

4 POLE 50 Hz

V20




| N° | PART NAME | | MATERIAL | DIMENSIONS | STANDARD | QTY |
|---|---|---|---|---|---|---|
| 1 | Casing | | EN 1.4301 (AISI 304) | | | 1 |
| 3 | Motor Bracket | | Cast iron EN-GJL-200-EN 1561 | | | 1 |
| 4 | Casing Cover | | EN 1.4301 (AISI 304) | | | 1 |
| 6 | Shaft with rotor-part in contact with liquid | | EN 1.4301 (AISI 304) | | | 1 |
| 7 | Impeller | | EN 1.4301 (AISI 304) | | | 1 |
| 11 | Mechanical Seal | | Carbon/Ceramic/NBR *(standard)* | See Page 302 | | 1 |
| 12 | Motor Frame with Stator | | - | | | 1 |
| 13 | Motor cover | | Aluminium | | | 1 |
| 14 | Fan | | PA | | | 1 |
| 15 | Fan Cover | | Fe P04 Galvanised | | | 1 |
| 16 | Terminal | | - | | | 1 |
| 17 | Terminal box cover | | Aluminium | | | 1 |
| 18 | Splash ring | | NBR | 40x21.5x3 | | 1 |
| 19 | Bearing | | - | | | 1 |
| 20 | Bearing | | - | | | 1 |
| 21 | Adjusting ring | | Steel C70 | | | 1 |
| 22 | Tie rod | | Fe 42 Galvanised | M5 | | 4 |
| 25 | Drain plug | | EN 1.4401 (AISI 316) / PTFE | R1/8" L=9 | DIN 906 | 1 |
| 26 | "O" ring | 32-125, 40-125 | NBR *(Standard)* | 158.11x5.34 | OR 6625 | 1 |
| | | 32-160, 40-160, 50-125, | | 183.52x5.34 | OR 6720 | |
| | | 32-200, 40-200, 50-160, 50-200 | | 227.96x5.34 | OR 6895 | |
| 32 | Key | | EN 1.4401 (AISI 316) | 6x6x25 | UNI 6604 | 1 |
| 34 | Impeller nut | Other models | EN 1.4301 (AISI 304) | M16x1.5 | UNI7474 | 1 |
| | | 50-200/2.2 | | M18x1.5 | | |
| 42 | Foot | | Aluminium / Galvanised | | | 1 |
| 56 | Box Basket | | NBR | | | 1 |
| 58 | Fastening nut | | - | | | 1 |
| 72 | Casing ring | | EN 1.4301 (AISI 304) | | | 1 |
| 73 | Casing ring | | EN 1.4301 (AISI 304) | | | 1 |
| 92 | Lip seal | Up to 1.5kW | - | 24x40x7 | DIN 3760 Without spring | 1 |
| | | 2.2kW | | 30x47x7 | | |
| 93 | Lip seal | 0.37 kW to 0.55kW | - | 17x32x7 | DIN 3760 Without spring | 1 |
| | | 0.75 kW to 2.2kW | | 25x40x7 | | |
| 200 | Screw | 32-125, 40-125 | Stainless steel A2 70 Class ISO 3506/1 | M8x30 | UNI 5739 | 8 |
| | | 40-160, 40-200, 50-125, 50-160, 50-200 | | M10x35 | | * |
| 235 | Washer | 32-125, 40-125 | EN 1.4301 (AISI 304) | 8.4x17 | UNI 6592 | 8 |
| | | 40-160, 40-200, 50-125, 50-160, 50-200 | | 10.5x21 | | * |

* Quantity = 10 for 32-160, 40-160, 50-125
Quantity = 12 for 32 -200, 40-200, 50-160, 50-200

## CONSTRUCTIONS - MECHANICAL SEAL

4 POLE 50 Hz

V20

FIG. 1

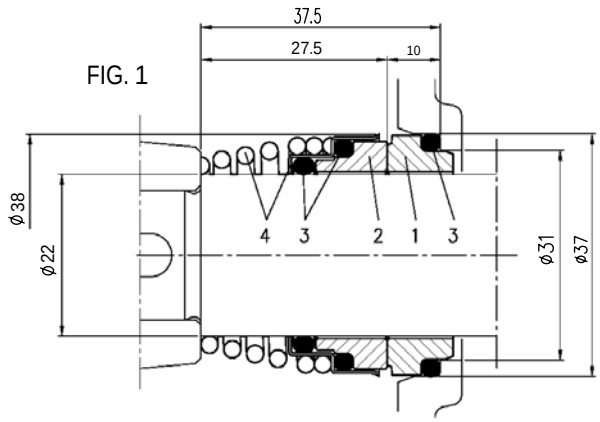
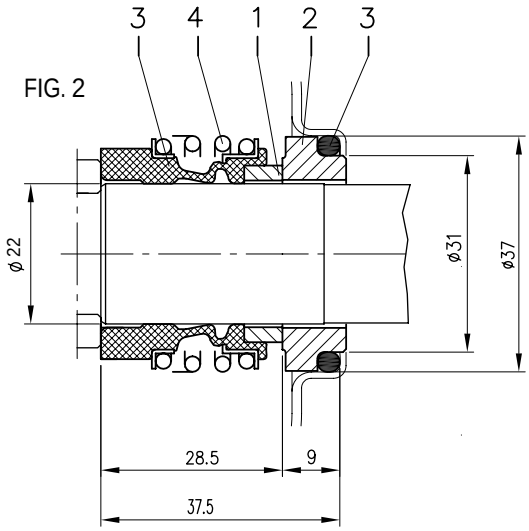



FIG. 2




| Figure | Ebara Reference (Version) | Manufacturer Reference | | | Material | | | |
|---|---|---|---|---|---|---|---|---|
| | | Manuf. | Description | Material Description | 1 Stationary seal ring | 2 Rotary seal ring | 3 rubber | 4 Frame + Spring |
| Fig. 1 | Standard | Roten | UNITEN 3K | X6X62V6 | Carbon | Ceramic | NBR | EN 1.4401 (AISI 316) |
| Fig. 1 | High Temp* | | | XYXY2VY | Carbon | Ceramic | FPM | EN 1.4401 (AISI 316) |
| Fig. 2 | Hard Face* | Burgmann | MG1S6/22-G3 | Q1Q1VGG | SiC | SiC | FPM | EN 1.4571 (AISI 316Ti) |

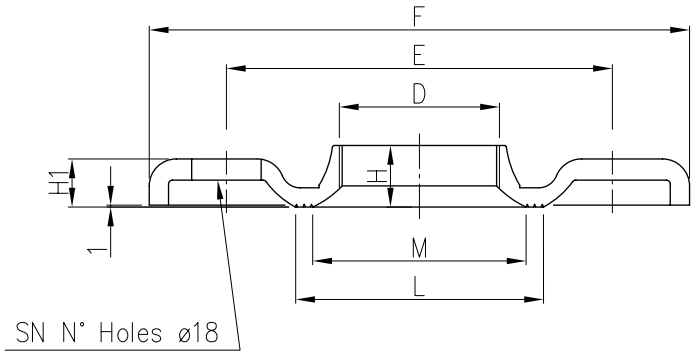
* High temp and Hard face seal options can be fitted to pump or available as a spare part.

## CONSTRUCTIONS - COMPANION FLANGE

4 POLE 50 Hz

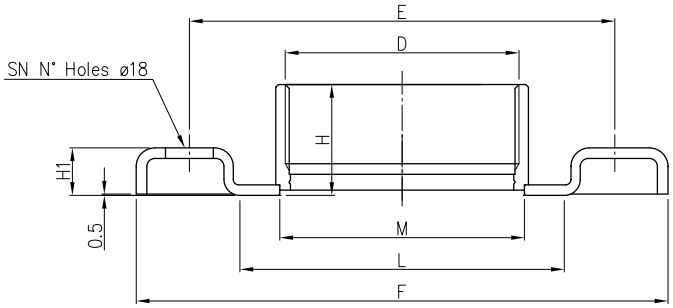
V20

### ZINCED STEEL



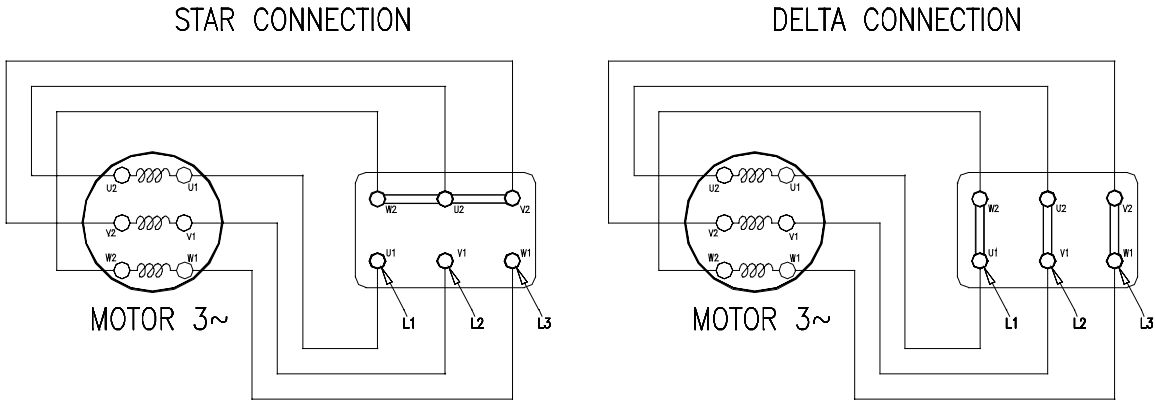

| Counterflange | | | | | | | | | Screw | |
|---|---|---|---|---|---|---|---|---|---|---|
| DN | D | E | F | H | H1 | L | M | SN | Dimensions | Material |
| 32 | G 1 ¼ | 100 | 100 | 15 | 11.5 | 67 | 50 | 4 | M 16x55 | Zn. Steel 8.8 Strength class ISO 898-1 |
| 40 | G 1 ½ | 110 | 110 | 17.5 | 11.5 | 72 | 58 | 4 | | |
| 50 | G2 | 125 | 125 | 19 | 15 | 89 | 70 | 4 | | |
| 65 | G 2 ½ | 145 | 185 | 23 | 14 | 104 | 88 | 4 | | |

### EN 1.4301 (AISI 304)



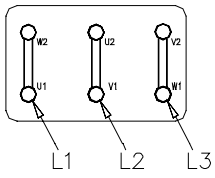

| Counterflange | | | | | | | | | Screw | |
|---|---|---|---|---|---|---|---|---|---|---|
| DN | D | E | F | H | H1 | L | M | SN | Dimensions | Material |
| 32 | G 1 ¼ | 100 | 100 | 15 | 11.5 | 67 | 50 | 4 | M 16x55 | A2-70 class ISO 3506-1 |
| 40 | G 1 ½ | 110 | 110 | 17.5 | 11.5 | 72 | 58 | 4 | | |
| 50 | G2 | 125 | 125 | 19 | 15 | 89 | 70 | 4 | | |
| 65 | G 2 ½ | 145 | 185 | 23 | 14 | 104 | 88 | 4 | | |

**THREE PHASE**

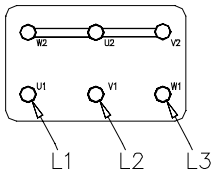



FOR MOTOR 4 kW AND BELOW

DELTA CONNECTION 230 V



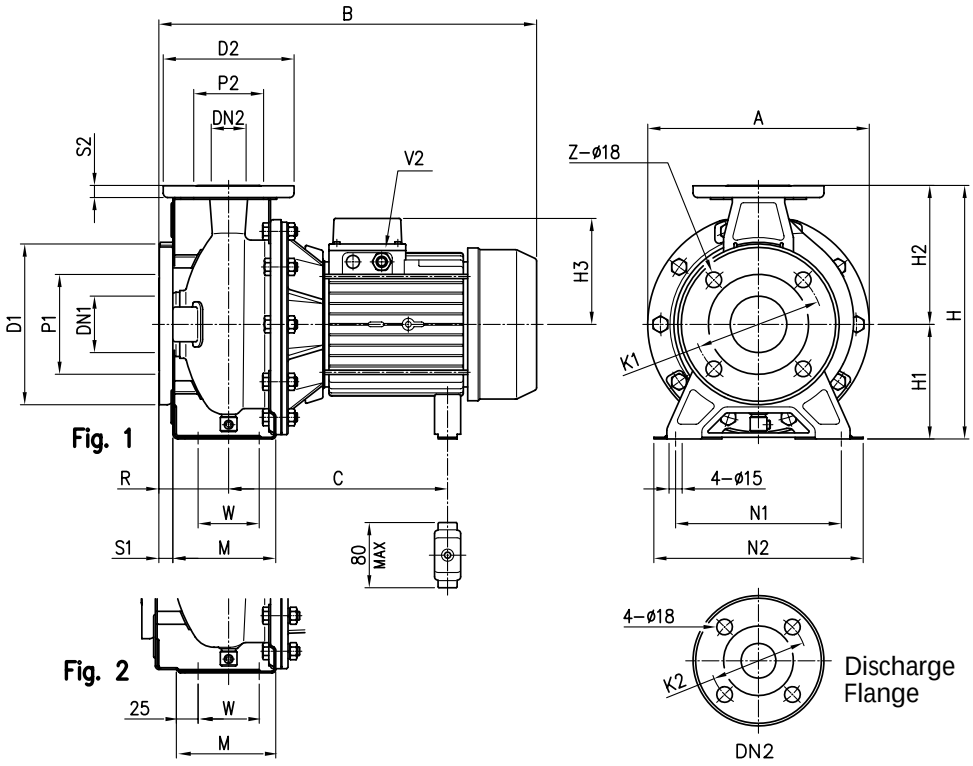

STAR CONNECTION 400 V



## DIMENSIONS

4 POLE 50 Hz

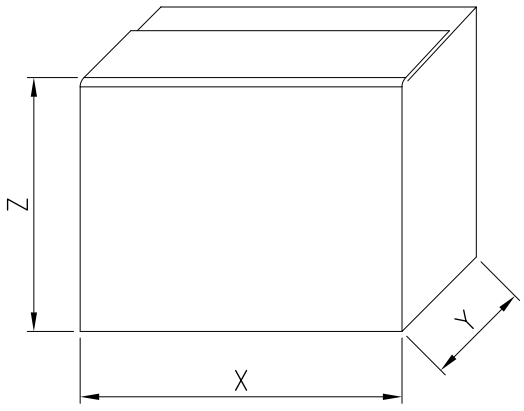
V20




| Model | Dimensions (mm) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ø DN1 | Ø P1 | Ø K1 | Ø D1 | S1 | Z | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | Fig. | H | H1 | H2 | H3 | R | W | M | N1 | N2 | A | B | C | V2 | Weight (Kg) |
| 32-160/0.37 | 50 | 95 | 125 | 165 | 16 | 4 | 32 | 75 | 100 | 140 | 14 | 1 | 292 | 132 | 160 | 119 | 80 | 70 | 118 | 190 | 240 | 254 | 395 | 219 | PG 11 | 20 |
| 32-200/0.55 | 50 | 95 | 125 | 165 | 16 | 4 | 32 | 75 | 100 | 140 | 14 | 1 | 340 | 160 | 180 | 119 | 80 | 70 | 119 | 190 | 240 | 296 | 395 | 219 | PG 11 | 24.5 |
| 32-200/0.75 | 50 | 95 | 125 | 165 | 16 | 4 | 32 | 75 | 100 | 140 | 14 | 1 | 340 | 160 | 180 | 124 | 80 | 70 | 119 | 190 | 240 | 296 | 408 | 219+230 | PG 13.5 | 28 |
| 40-125/0.37 | 65 | 115 | 145 | 185 | 16 | 4 | 40 | 80 | 110 | 150 | 14 | 1 | 252 | 112 | 140 | 102 | 80 | 70 | 114 | 160 | 210 | 213 | 371 | 205 | PG 11 | 15.5 |
| 40-160/0.55 | 65 | 115 | 145 | 185 | 16 | 4 | 40 | 80 | 110 | 150 | 14 | 1 | 292 | 132 | 160 | 119 | 80 | 70 | 118 | 190 | 240 | 254 | 395 | 219 | PG 11 | 20.5 |
| 40-200/1.1 | 65 | 115 | 145 | 185 | 16 | 4 | 40 | 80 | 110 | 150 | 14 | 2 | 340 | 160 | 180 | 124 | 100 | 70 | 115 | 212 | 265 | 296 | 428 | 219+230 | PG 13.5 | 28.5 |
| 40-200/1.5 | 65 | 115 | 145 | 185 | 16 | 4 | 40 | 80 | 110 | 150 | 14 | 2 | 340 | 160 | 180 | 124 | 100 | 70 | 115 | 212 | 265 | 296 | 428 | 219+230 | PG 13.5 | 30.5 |
| 50-125/0.55 | 65 | 115 | 145 | 185 | 16 | 4 | 50 | 95 | 125 | 165 | 16 | 2 | 292 | 132 | 160 | 119 | 100 | 70 | 114 | 190 | 240 | 254 | 415 | 219 | PG 11 | 20.5 |
| 50-160/1.1 | 65 | 115 | 145 | 185 | 16 | 4 | 50 | 95 | 125 | 165 | 16 | 2 | 340 | 160 | 180 | 124 | 100 | 70 | 115 | 212 | 265 | 296 | 428 | 219+230 | PG 13.5 | 25.5 |
| 50-200/1.5 | 65 | 115 | 145 | 185 | 16 | 4 | 50 | 95 | 125 | 165 | 16 | 2 | 360 | 160 | 200 | 124 | 100 | 70 | 115 | 212 | 265 | 296 | 428 | 219+230 | PG 13.5 | 31.5 |
| 50-200/2.2 | 65 | 115 | 145 | 185 | 16 | 4 | 50 | 95 | 125 | 165 | 16 | 2 | 360 | 160 | 200 | 141 | 100 | 70 | 115 | 212 | 265 | 296 | 474 | 253 | PG 16 | 36 |

## PACKING AND WEIGHT

| Pump Type | Packing [mm] | | | Weight [Kg] |
|---|---|---|---|---|
| | X | Y | Z | |
| 32-160/0.37 | 430 | 280 | 330 | 21.5 |
| 32-200/0.55 | 490 | 330 | 390 | 26.5 |
| 32-200/0.75 | | | | 31 |
| 40-125/0.37 | 440 | 250 | 300 | 17 |
| 40-160/0.55 | 430 | 280 | 330 | 23 |
| 40-200/1.1 | 490 | 330 | 390 | 31.5 |
| 40-200/1.5 | | | | 33 |
| 50-125/0.55 | 430 | 280 | 330 | 22.5 |
| 50-160/1.1 | 490 | 330 | 390 | 31.5 |
| 50-200/1.5 | | | | 32.5 |
| 50-200/2.2 | | | | 38.5 |



# MOTOR & BEARING DATA

4 POLE 50 Hz

V20

| Pump Type | Power | | Efficiency | Input [kW] | Efficiency (% load) and power-factor η % | | | | Full load current [A] | | | Locked rotor current [A] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [kW] | [HP] | | | 50% | 75% | 100% | Cos-ϕ | 230 V | 400 V | 690 V | 230 V | 400 V | 690 V |
| 3M4 32-160/0.37 | 0.37 | 0.5 | - | 0.80 | - | - | - | - | 2.6 | 1.5 | - | 9.9 | 5.7 | - |
| 3M4 32-200/0.55 | 0.55 | 0.75 | - | 0.80 | - | - | - | - | 2.6 | 1.5 | - | 9.9 | 5.7 | - |
| 3M4 32-200/0.75 | 0.75 | 1 | IE2 | 1.41 | 78.4 | 81.6 | 81.9 | 0.76 | 4.6 | 2.7 | - | 32.0 | 18.5 | - |
| 3M4 40-125/0.37 | 0.37 | 0.5 | - | 0.55 | - | - | - | - | 1.9 | 1.1 | - | 7.3 | 4.2 | - |
| 3M4 40-160/0.55 | 0.55 | 0.75 | - | 0.80 | - | - | - | - | 2.6 | 1.5 | - | 9.9 | 5.7 | - |
| 3M4 40-200/1.1 | 1.1 | 1.5 | IE2 | 1.41 | 78.4 | 81.6 | 81.9 | 0.76 | 4.6 | 2.7 | - | 32.0 | 18.5 | - |
| 3M4 40-200/1.5 | 1.5 | 2 | IE2 | 1.88 | 80.3 | 83.4 | 83.8 | 0.75 | 6.2 | 3.6 | - | 45.0 | 26.0 | - |
| 3M4 50-125/0.55 | 0.55 | 0.75 | - | 0.80 | - | - | - | - | 2.6 | 1.5 | - | 9.9 | 5.7 | - |
| 3M4 50-160/1.1 | 1.1 | 1.5 | IE2 | 1.41 | 78.4 | 81.6 | 81.9 | 0.76 | 4.6 | 2.7 | - | 32.0 | 18.5 | - |
| 3M4 50-200/1.5 | 1.5 | 2 | IE2 | 1.88 | 80.3 | 83.4 | 83.8 | 0.75 | 6.2 | 3.6 | - | 45.0 | 26.0 | - |
| 3M4 50-200/2.2 | 2.2 | 3 | IE2 | 2.7 | 84.6 | 86.0 | 85.6 | 0.83 | 8.1 | 4.7 | - | 52.0 | 30.0 | - |

| Pump type | Bearing size | |
|---|---|---|
| | Pump side | Fan side |
| 3M4 32-160/0.37 | 6205-2RSH C3 | 6203-2RSH |
| 3M4 32-200/0.55 | | |
| 3M4 32-200/0.75 | | 6205-2RSH C3 |
| 3M4 40-125/0.37 | 6205-2RSH C3 | 6202-2RSH |
| 3M4 40-160/0.55 | | 6203-2RSH |
| 3M4 40-200/1.1 | | 6205-2RSH C3 |
| 3M4 40-200/1.5 | | |
| 3M4 50-125/0.55 | 6205-2RSH C3 | 6203-2RSH |
| 3M4 50-160/1.1 | | 6205-2RSH C3 |
| 3M4 50-200/1.5 | | |
| 3M4 50-200/2.2 | | |