

| | | |
|--------------|-------------|-----------|
| Customer | Date | 12/8/2020 |
| Contact | Project | |
| Phone number | Project no. | |
| Email | | |

ESHE 65-160/11A/P45RSNA

101863560

Operating data

| | | | |
|---------------------------|------------------|---------------------------|--------------------------|
| Pump type | Single head pump | Fluid | Water, pure |
| No. of pumps / Reserve | 1 / 0 | Operating temperature t A | °C 4 |
| Nominal flow | l/s 0 | pH-value at t A | 7 |
| Nominal head | m 0 | Density at t A | kg/m ³ 1000 |
| Static head | m 0 | Kin. viscosity at t A | mm ² /s 1.569 |
| Inlet pressure | kPa 0 | Vapor pressure at t A | kPa 100 |
| Environmental temperature | °C 20 | Solids | 0 |
| Available system NPSH | m 0 | Altitude | m 0 |

Pump data

| | | | |
|-----------------------|-----------------------------|------------------|-----------------------------|
| Make | Lowara | Nominal | l/s () |
| Speed | rpm 1450 | Flow Max- | l/s 16.7 |
| Number of stages | 1 | Min- | l/s 5.5 |
| Max. casing pressure | kPa | Nominal | m |
| Max. working pressure | kPa 75.5 | Head at Qmax | m 2.8 |
| Head H(Q=0) | m 7.7 | at Qmin | m 7.3 |
| Weight | kg | Shaft power | kW () |
| | Max. mm 176 | Max. shaft power | kW .9 |
| Impeller R designed | mm 154 | Efficiency | % |
| | Min. mm 127 | NPSH 3% | m |
| Suction nozzle | DN 80 PN 12 EN1092-2 (e-SH) | Discharge nozzle | DN 65 PN 12 EN1092-2 (e-SH) |

Pump Materials

| | |
|-----------------------------|-----------------------------|
| Pump body | Stainless steel / AISI 316L |
| Impeller | Stainless steel / ASTM CF8M |
| SEAL HOUSING | Stainless steel / AISI 316L |
| Wear Ring | Stainless steel / AISI 316L |
| Counterwear ring | Stainless steel / AISI 316L |
| Shaft extension | Stainless steel / AISI 316L |
| Rigid shaft coupling | Stainless steel / AISI 316 |
| Impeller locknut and washer | Stainless steel / AISI 316 |
| Tab | Stainless steel / AISI 316L |

Shaft Seal

| | |
|-------------------|----------------------------|
| Single Seal | |
| e-SH - uniten | Roten |
| Rotating Assembly | V-Ceramic |
| Fixed Assembly | B-Resin impregnated carbon |
| Elastomers | V-FKM (FPM) |
| Springs | G-AISI 316 |
| Other Components | G-AISI 316 |

Motor data

| | | | |
|------------------|-------------------------------|----------------------|----------|
| Manufacturer | Lowara | Electric voltage | 400 V |
| Specific design | IE3 Three phase surface motor | | |
| Type | PLM490.../311 E3 | | |
| Rated power | 1.1 kW | Electric current | 2.65 A |
| Speed | 1440 rpm | Degree of protection | IP 55 |
| Frame size | 90 | Weight | 19 kg |
| Shaft diameter | 0 mm | Colour | RAL 5010 |
| Insulation class | F | | |

Coupling

| | |
|---------------------|--|
| Manufacturer | |
| Series | |
| Type | |
| Frame size | |
| Spacer length | |
| Weight | |
| Coupling protection | |

Base plate

| | |
|-------------|--|
| Description | |
| Weight | |

Remarks:

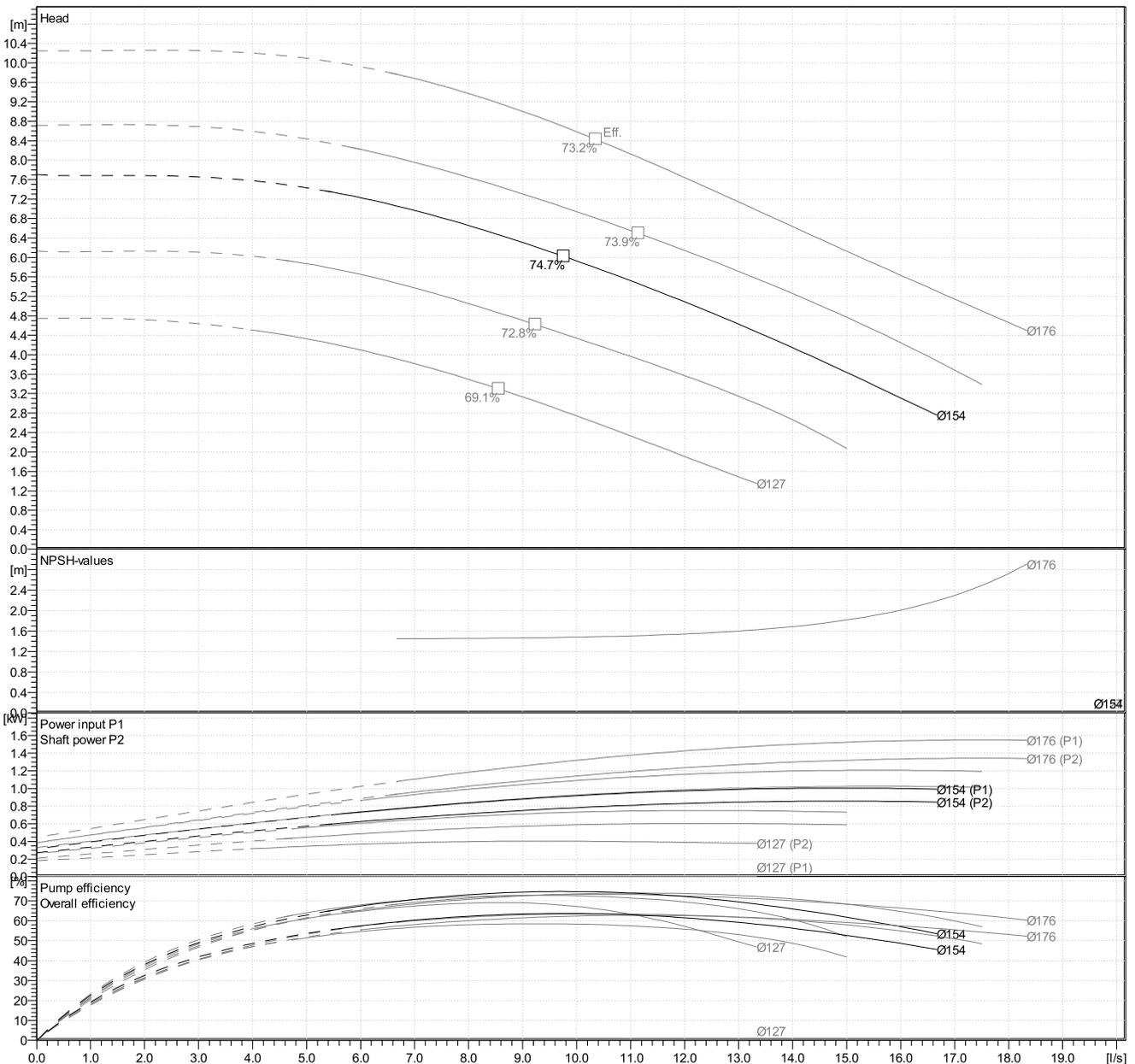
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Hydraulic data

| Operating Data Specification | | Hydraulic data (duty point) | | Impeller design | |
|------------------------------|-------|-----------------------------|--|-----------------|----------|
| Flow | 0 l/s | Flow | | Impeller R | 154 mm |
| Head | 0 m | Head | | Frequency | 50 Hz |
| Static head | 0 m | | | Speed | 1450 rpm |

Power data referred to:
Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s
Performance according to ISO 9906:2012 – Grade 3B



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Dimensions mm/l

| | | | |
|------|-----|--------------|-------|
| a | 100 | | |
| B | 310 | | |
| DNA | 80 | | |
| DNM | 65 | | |
| h1 | 160 | | |
| h2 | 200 | | |
| Hmax | 360 | | |
| k | 130 | | |
| L | 498 | | |
| n | 245 | | |
| n1 | 130 | | |
| x | 134 | | |
| | | Total weight | 44 kg |

Connections mm

| | |
|-----------------|------------------|
| Suction nozzle | Discharge nozzle |
| DN 80 | DN 65 |
| PN 12 | PN 12 |
| EN1092-2 (e-SH) | EN1092-2 (e-SH) |

| | | | |
|---------------|-----|---------------|-----|
| D | 200 | D | 185 |
| Dia. Holes | 18 | Dia. Holes | 18 |
| DN | 80 | DN | 65 |
| G | 114 | G | 104 |
| M | 160 | M | 145 |
| Max thickness | 20 | Max thickness | 18 |
| N° Holes | 8 | N° Holes | 4 |

Drawing

