LOWARA
a xylem brand

# NSCE 65-160/92/P25VCC4

## Technical data

Company name
Contact
Phone number
e-mail address

### Operating data

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | Pumpe type | Single head pump | | Fluid | Water, pure | | |
| 2 | No. of pumps | 1 | | Operating temperature t A | °C | 4 | |
| 3 | Nominal flow | l/s | 0 | Max / Min Operating Temperature mech. Seal | °C | 120 / -25 | |
| 4 | Nominal head | m | 0 | pH-value at t A | | 7 | |
| 5 | Static head | m | 0 | Density at t A | kg/m³ | 1000 | |
| 6 | Inlet pressure | kPa | 0 | Kin. viscosity at t A | mm²/s | 1.569 | |
| 7 | Environmental temperature | °C | 20 | Vapor pressure at t A | kPa | 100 | |
| 8 | Available system NPSH | m | 0 | Altitude | | 0 | |

### Pump data

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | Lubrication | Standard, Grease lubrication [Std] | | | | | |
| 10 | Execution | 2 poles motor | | Impeller Ø | Max. | mm | 180 |
| 11 | Design | Horizontal | | | designed | mm | 151 |
| 12 | Operating speed | 2920 rpm | Stages 1 | | Min. | mm | 145 |
| 13 | Suction nozzle | DN 80 / PN 16 / EN1092-2 | | Flow | Nominal | l/s | |
| 14 | Discharge nozzle | DN 65 / PN 16 / EN1092-2 | | | Max- | l/s | 39.7 |
| 15 | Max. casing pressure | kPa | | | Min- | l/s | 7.7 |
| 16 | Max. working pressure | kPa | 295.9 | Head | Nominal | m | |
| 17 | Impeller type | | Radial impeller | | at Qmax | m | 15.8 |
| 18 | Head H(Q=0) | m | 30 | | at Qmin | m | 30.1 |
| 19 | Max. shaft power | kW | 8.7 | Shaft power | | kW | |
| 20 | Pump weight | kg | | Efficiency | | % | |
| 21 | Total weight | kg | 91.0 | NPSH 3% | | m | |

### Materials

| | Pump | | Shaft Seal | |
|---|---|---|---|---|
| 22 | | | | |
| 23 | Volute Casing | Cast Iron | Single mechanical seal, without shaft sleeve | |
| 24 | Casing Cover | Cast Iron | eMG12 - Ø28mm | BQ7EGG-WA |
| 25 | Impeller | Cast Iron | Mechanical seal diameter | 28 mm |
| 26 | Shaft | Stainless steel | 1. Rotating ring | Carbon graphite resin impregnated |
| 27 | Wear ring | Stainless steel | 2. Stationary ring | SiC, silicon carbide, sintered press.less |
| 28 | Impeller lock nut and washer | Stainless steel | 3. Secondary seal | Ethylene propylene rubber (EPDM) |
| 29 | Impeller key | Stainless steel | 4. Springs | CrNiMo - Steel |
| 30 | Fill and drain plugs | Stainless steel | 5. Others | EPDM - WRAS |
| 31 | | | Gaskets of the pump | Ethylene propylene rubber (EPDM) |
| 32 | | | | |
| 33 | | | | |
| 34 | | | | |
| 35 | | | | |
| 36 | | | | |
| 37 | | | | |
| 38 | | | | |
| 39 | | | | |
| 40 | | | | |
| 41 | | | | |

### Motor data

Electrical and dimensional data refer to IE3 motor

| | | | | |
|---|---|---|---|---|
| 42 | Manufacturer | Lowara | | |
| 43 | Specific design | IE3 3ph Flange Motor | | |
| 44 | Type | PLM 132 B14 9,2 kW | | |
| 45 | Rated power | 9.2 kW | Rated current | 17.4 A |
| 46 | Nominal speed | 2920 rpm | Rated voltage | 400 V |
| 47 | Frame size | 132 | Service factor | 1 |
| 48 | Weight kg | 70.4 | Degree of protection | IP55 |

### Remarks

| | |
|---|---|
| 49 | |
| 50 | |
| 50 | |
| 52 | |

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# NSCE 65-160/92/P25VCC4

## Performance curve

Company name
Contact
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| | Ø | Pump capacity Operating range Min. | Max. | η Max. | Pump head H(Q=0) | η Max. | Shaft power P2 P2(Q=0) | Max. | η Max. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | l/s | l/s | l/s | m | m | kW | kW | kW | | | |
| actual | 151 | 7.74 | 39.7 | 28.5 | 30.2 | 23.9 | | 8.73 | 8.25 | | | |
| Min. | 0 | / | / | 26.8 | 27.4 | 21.2 | | / | 7.04 | | | |
| Max. | 180 | / | / | 37.1 | 45.3 | 36.6 | | / | 15.8 | | | |

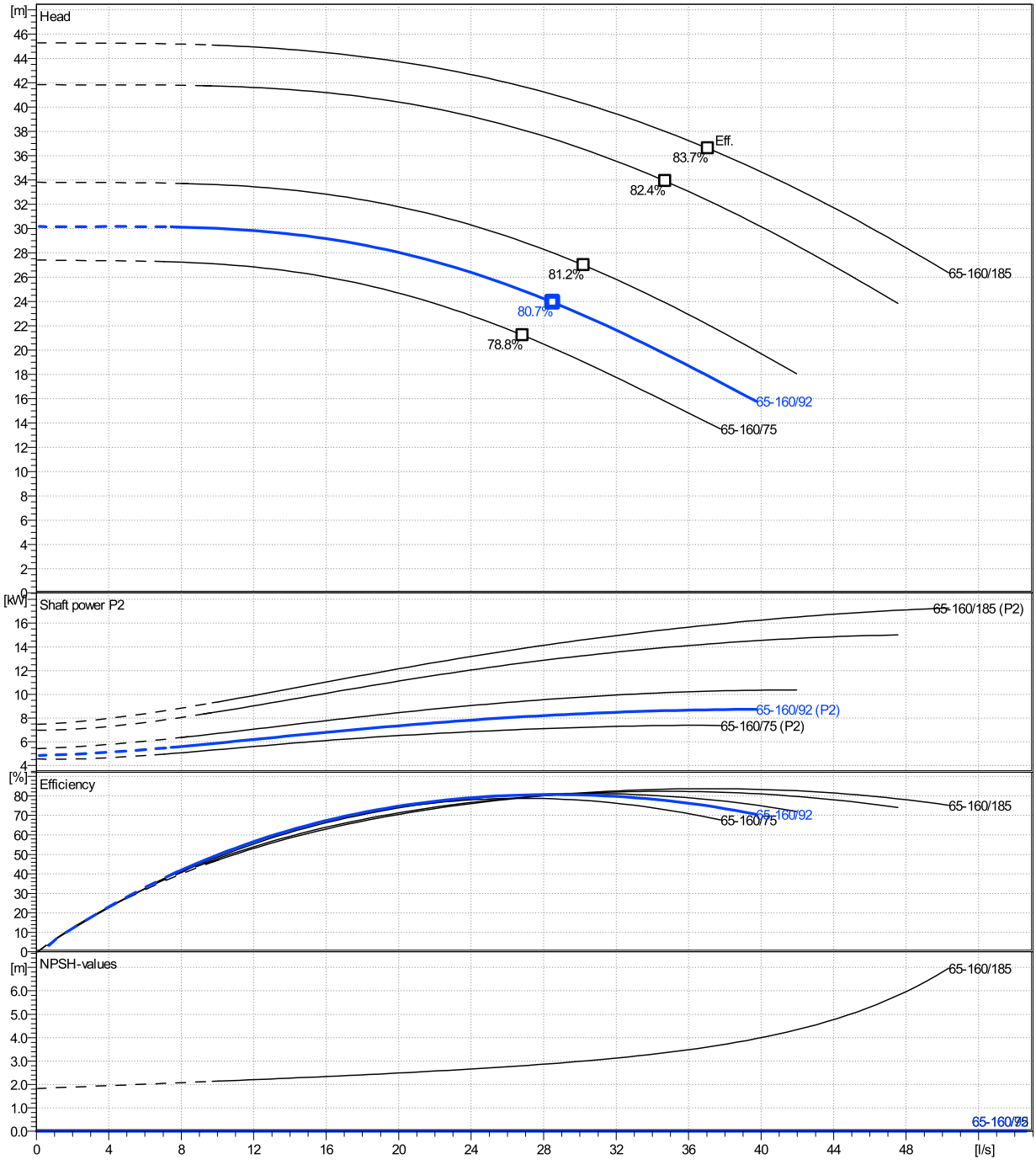
| | | |
|---|---|---|
| Frequency | Hz | 50 |
| Operating speed | rpm | 2920 |
| Nominal flow | l/s | 0 |
| Nominal head | m | 0 |
| Inlet pressure | kPa | 0 |
| Static head | m | 0 |

**Power datas refered to:**

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

**hydr. Performance acceptance acc. To EN ISO 9906 Class** Grade 3B

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012




| | | | | | |
|---|---|---|---|---|---|
| Project | Xylect-21819660 | Created by | Celeste Holmes | Last update | 2/8/2024 |
| Block | NSCE 65-160/185/P25VCC4 | Created on | 2/8/2024 | | |

Program version: 72.0 - 30/01/2024 (Build 126)
Data version: 05/02/2024 09:05
User group(s): Xylem:United Kingdom - EXT

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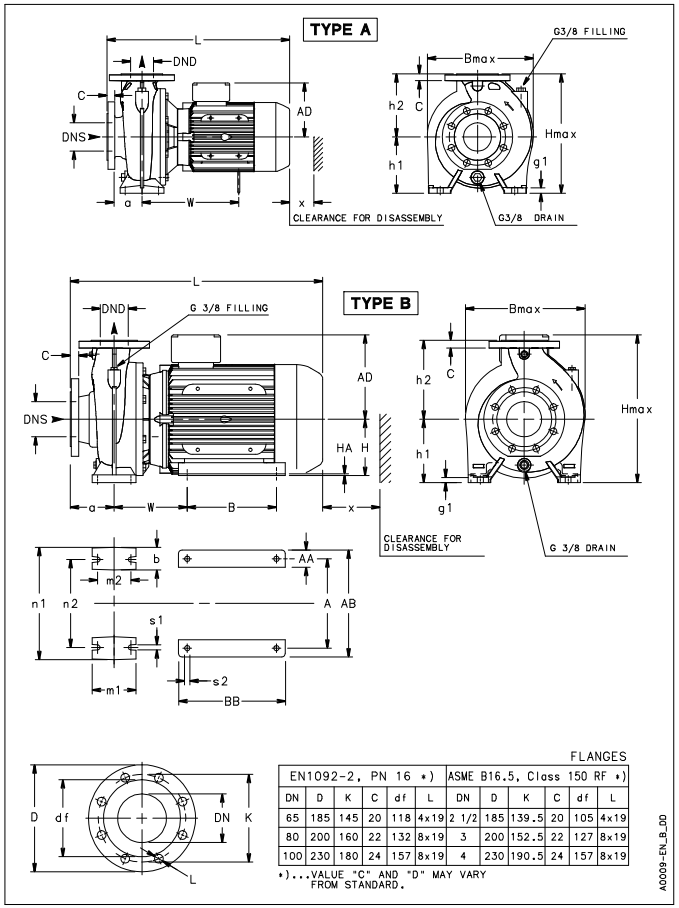
# NSCE 65-160/92/P25VCC4

## Dimensions

Company name
Contact
Phone number
e-mail address

Extended shaft
2 poles motor
PLM 132 B14 9,2 kW




| EN1092-2, PN 16 *) | | | | | | ASME B16.5, Class 150 RF *) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DN | D | K | C | df | L | DN | D | K | C | df | L |
| 65 | 185 | 145 | 20 | 118 | 4x19 | 2 1/2 | 185 | 139.5 | 20 | 105 | 4x19 |
| 80 | 200 | 160 | 22 | 132 | 8x19 | 3 | 200 | 152.5 | 22 | 127 | 8x19 |
| 100 | 230 | 180 | 24 | 157 | 8x19 | 4 | 230 | 190.5 | 24 | 157 | 8x19 |

*)...VALUE "C" AND "D" MAY VARY FROM STANDARD.

Electrical and dimensional data refer to IE3 motor

### Dimensions [ mm ]

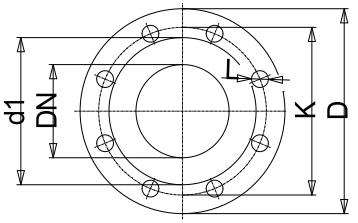
| | | | |
|---|---|---|---|
| a | 100 | | |
| AD | 191 | | |
| B max | 335 | | |
| b | 65 | | |
| DND | 65 | | |
| DNS | 80 | | |
| g1 | 16 | | |
| H max | 360 | | |
| h1 | 160 | | |
| h2 | 200 | | |
| L | 605 | | |
| m1 | 125 | | |
| m2 | 95 | | |
| n1 | 280 | | |
| n2 | 212 | | |
| s1 | 14 | | |
| Type | A | | |
| W | 343 | | |
| x | 108 | | |

### Weight

| | |
|---|---|
| **Total weight** | **91 kg** |

### Connections

| **Suction nozzle** | | **Discharge nozzle** | |
|---|---|---|---|
| **DN 80** | | **DN 65** | |
| **PN 16** | | **PN 16** | |
| **EN1092-2** | | **EN1092-2** | |
| C | 22 | C | 20 |
| D | 200 | D | 185 |
| df | 132 | df | 118 |
| DN | 80 | DN | 65 |
| K | 160 | K | 145 |
| L | 8 x 19 | L | 4 x 19 |




Value C, D may vary from Standard

**Dimensions and weight without obligation**

| | | | | | |
|---|---|---|---|---|---|
| **Project** | **Xylect-21819660** | **Created by** | **Celeste Holmes** | **Last update** | **2/8/2024** |
| **Block** | **NSCE 65-160/185/P25VCC4** | **Created on** | **2/8/2024** | | |