LOWARA
a xylem brand

# NSCS65-250/450/L26UCC4

## 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 | | °F | 39.2 |
| 3 | Nominal flow | US g.p.m. | 0 | Max / Min Operating Temperature mech. Seal | | °F | 120 / -25 |
| 4 | Nominal head | ft | 0 | pH-value at t A | | | 7 |
| 5 | Static head | ft | 0 | Density at t A | | lb/ft³ | 62.4 |
| 6 | Inlet pressure | psi | 0 | Kin. viscosity at t A | | ft²/s | 1.689E-5 |
| 7 | Environmental temperature | °F | 68 | Vapor pressure at t A | | psi | 14.5 |
| 8 | Available system NPSH | ft | 0 | Altitude | | | 0 |

## Pump data

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | Lubrication | Standard, Grease lubrication [Std] | | | | | |
| 10 | Execution | 2 poles motor | | Impeller Ø | Max. | inch | 9 9/16 |
| 11 | Design | Horizontal | | | designed | inch | 8 1/4 |
| 12 | Operating speed | 3500 rpm | Stages 1 | | Min. | inch | 8 1/4 |
| 13 | Suction nozzle | DN 80 / PN 16 / EN1092-2 | | Flow | Nominal | US g.p.m. | |
| 14 | Discharge nozzle | DN 65 / PN 16 / EN1092-2 | | | Max- | US g.p.m. | 871.8 |
| 15 | Max. casing pressure | psi | | | Min- | US g.p.m. | 166 |
| 16 | Max. working pressure | psi | 125.1 | Head | Nominal | ft | |
| 17 | Impeller type | | Radial impeller | | at Qmax | ft | 174.9 |
| 18 | Head H(Q=0) | ft | 290 | | at Qmin | ft | 301.4 |
| 19 | Max. shaft power | hp | 59.2 | Shaft power | | hp | |
| 20 | Pump weight | kg | | Efficiency | | % | |
| 21 | Total weight | lb | On demand | NPSH 3% | | ft | |

## Materials

| | Pump | | Shaft Seal | |
|---|---|---|---|---|
| 22 | | | | |
| 23 | Volute Casing | Cast Iron | Single mechanical seal, without shaft sleeve | |
| 24 | Casing Cover | Cast Iron | eMG12 - Ø38mm | BQ7EGG-WA |
| 25 | Impeller | Cast Iron | Mechanical seal diameter | 1 1/2 inch |
| 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 - Premium Efficiency | | |
| 44 | Type | 3MAS 225 M B35 45 kW | | |
| 45 | Rated power | 60.346 hp | Rated current | 79.7 A |
| 46 | Nominal speed | 3558 rpm | Rated voltage | 380 V |
| 47 | Frame size | 225 M | Service factor | 1 |
| 48 | Weight lb | 605.2 | Degree of protection | IP55 |

## Remarks

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

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## Performance curve

Company name
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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 | US g.p.m. | US g.p.m. | US g.p.m. | ft | ft | hp | hp | hp |
| actual | 8 1/4 | 166 | 872 | 647 | 288 | 245 | | 59.2 | 52.7 |
| Min. | 0 | / | / | 647 | 288 | 245 | | / | 52.7 |
| Max. | 9 9/16 | / | / | 762 | 375 | 336 | | / | 81 |

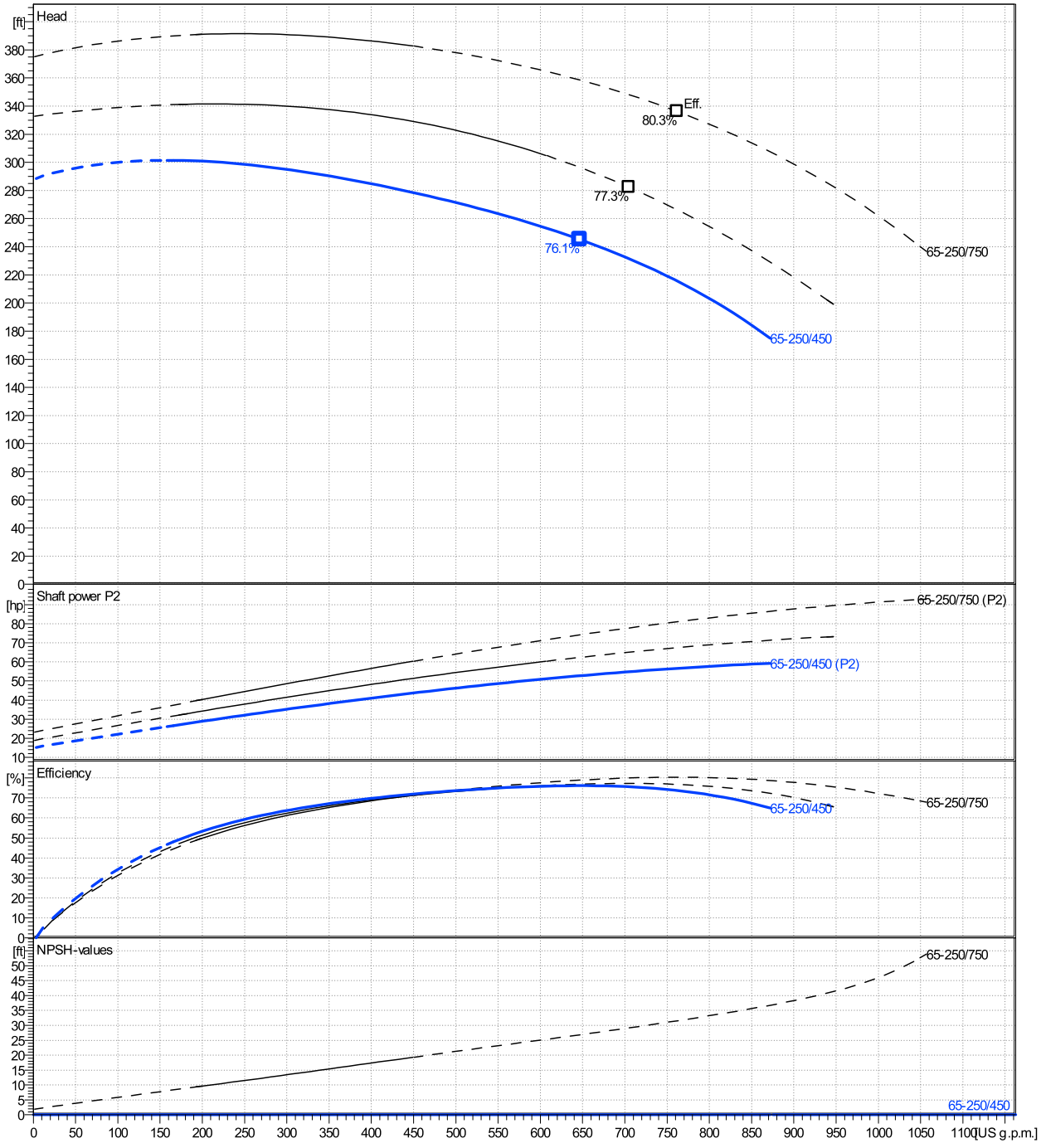
| | | |
|---|---|---|
| Frequency | Hz | 60 |
| Operating speed | rpm | 3500 |
| Nominal flow | US g.p.m. | 0 |
| Nominal head | ft | 0 |
| Inlet pressure | psi | 0 |
| Static head | ft | 0 |

**Power datas refered to:**

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

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

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




| | | | |
|---|---|---|---|
| **Project** | Xylect-20178266 | **Created by** | **Last update** 1/10/2025 |
| **Block** | NSCS65-250/750/L26UCC4 E4 | **Created on** 1/10/2025 | |

Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 15/12/2024 18:59
User group(s): Xylem:United Kingdom - EXT

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# NSCS65-250/450/L26UCC4

## Dimensions

Company name
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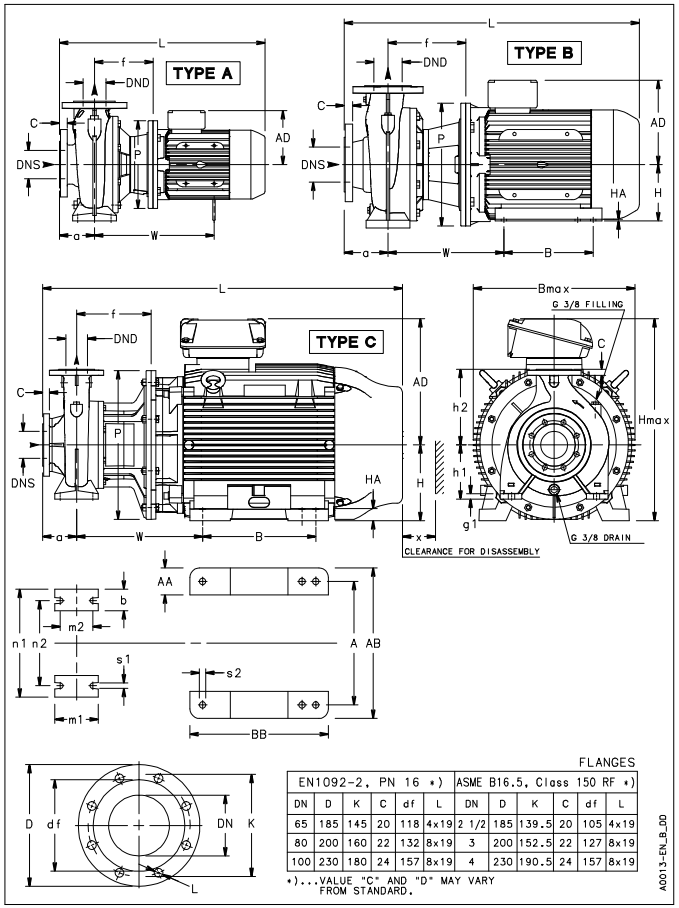
Phone number
e-mail address

Blockpump B35
2 poles motor
3MAS 225 M B35 45 kW

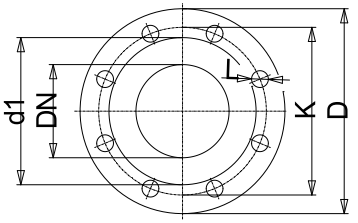



Electrical and dimensional data refer to IE3 motor

| Dimensions | [ inch ] | | |
|---|---|---|---|
| a | $3^{15}/_{16}$ | | |
| AD | $12^{11}/_{16}$ | | |
| b | $3^{1}/_{8}$ | | |
| Bmax | $18^{1}/_{8}$ | | |
| Bmax | $18^{1}/_{2}$ | | |
| DNd | $2^{9}/_{16}$ | | |
| DNs | $3^{1}/_{8}$ | | |
| f | $9^{11}/_{16}$ | | |
| g1 | $^{13}/_{16}$ | | |
| h1 | $7^{7}/_{8}$ | | |
| h2 | $9^{13}/_{16}$ | | |
| Hmax | $20^{9}/_{16}$ | | |
| m1 | $6^{5}/_{16}$ | | |
| m2 | $4^{3}/_{4}$ | | |
| n1 | $14^{3}/_{16}$ | | |
| n2 | $11^{1}/_{32}$ | | |
| P | $17^{11}/_{16}$ | | |
| s1 | $^{13}/_{16}$ | | |
| Type | C | | |
| w | $15^{9}/_{16}$ | | |
| x | $5^{1}/_{8}$ | | |

| Weight | |
|---|---|
| Total weight | On demand kg |

| Connections | | | |
|---|---|---|---|
| Suction nozzle | | Discharge nozzle | |
| DN 80 | | DN 65 | |
| PN 16 | | PN 16 | |
| EN1092-2 | | EN1092-2 | |
| C | $^{7}/_{8}$ | C | $^{13}/_{16}$ |
| D | $7^{7}/_{8}$ | D | $7^{5}/_{16}$ |
| df | $5^{3}/_{16}$ | df | $4^{5}/_{8}$ |
| DN | $3^{1}/_{8}$ | DN | $2^{9}/_{16}$ |
| K | $6^{5}/_{16}$ | K | $5^{11}/_{16}$ |
| L | 8 x 19 | L | 4 x 19 |




Value C, D may vary from Standard

**Dimensions and weight without obligation**

| | | | | | |
|---|---|---|---|---|---|
| Project | Xylect-20178266 | Created by | | Last update | 1/10/2025 |
| Block | NSCS65-250/750/L26UCC4 E4 | Created on | 1/10/2025 | | |