

## NSCS80-200/55/P46PCC4

### 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             | 4 poles motor                      |         |          |  |
| 11 | Design                | Horizontal                         |         |          |  |
| 12 | Operating speed       | 1750 rpm                           | Stages  | 1        |  |
| 13 | Suction nozzle        | DN 100 /                           | PN 16 / | EN1092-2 |  |
| 14 | Discharge nozzle      | DN 80 /                            | PN 16 / | EN1092-2 |  |
| 15 | Max. casing pressure  | psi                                |         |          |  |
| 16 | Max. working pressure | psi                                | 24.8    |          |  |
| 17 | Impeller type         | Radial impeller                    |         |          |  |
| 18 | Head H(Q=0)           | ft                                 | 57      |          |  |
| 19 | Max. shaft power      | hp                                 | 7.2     |          |  |
| 20 | Pump weight           | kg                                 |         |          |  |
| 21 | Total weight          | lb                                 | 277.8   |          |  |

#### Materials

|    |                              |                 |  |                                              |                                           |
|----|------------------------------|-----------------|--|----------------------------------------------|-------------------------------------------|
| 22 |                              | Pump            |  | Shaft Seal                                   |                                           |
| 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            | PLM 132 B5 5,5 kW                         |                      |        |
| 45 | Rated power     | 7.3756 hp                                 | Rated current        | 11.6 A |
| 46 | Nominal speed   | 1758 rpm                                  | Rated voltage        | 380 V  |
| 47 | Frame size      | 132                                       | Service factor       | 1      |
| 48 | Weight          | lb 138.0                                  | Degree of protection | IP55   |

#### Remarks

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

|         |                           |            |           |             |           |
|---------|---------------------------|------------|-----------|-------------|-----------|
| Project | Xylect-20178897           | Created by |           | Last update | 1/10/2025 |
| Block   | NSCS80-200/750/L26UCC4 E4 | Created on | 1/10/2025 |             |           |

## NSCS80-200/55/P46PCC4

### Performance curve

Company name  
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Phone number  
e-mail address

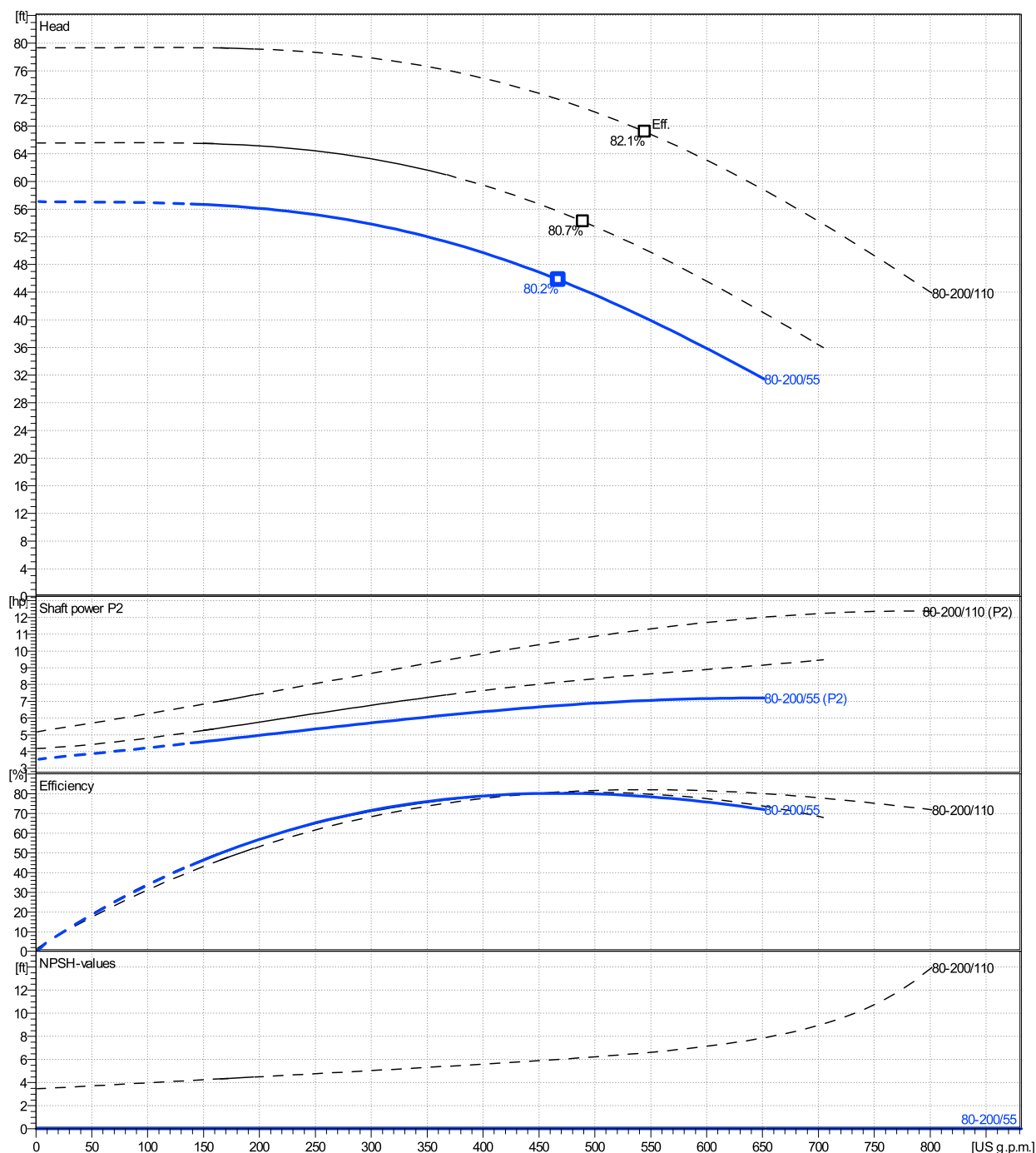
|        | Ø<br>mm | Pump capacity<br>Operating range |                   |                   | Pump head    |         | Shaft power P2 |            |         | Frequency              |                           | Hz   |
|--------|---------|----------------------------------|-------------------|-------------------|--------------|---------|----------------|------------|---------|------------------------|---------------------------|------|
|        |         | Min.<br>US g.p.m.                | Max.<br>US g.p.m. | Max.<br>US g.p.m. | H(Q=0)<br>ft | η<br>ft | P2(Q=0)<br>hp  | Max.<br>hp | η<br>hp | Operating speed<br>rpm | Nominal flow<br>US g.p.m. |      |
| actual | 7 3/8   | 145                              | 652               | 468               | 57.1         | 45.8    |                | 7.19       | 6.74    |                        |                           | 1750 |
| Min.   | 0       | /                                | /                 | 468               | 57.1         | 45.8    |                | /          | 6.74    |                        |                           | 0    |
| Max.   | 8 5/8   | /                                | /                 | 545               | 79.4         | 67.2    |                | /          | 11.3    |                        |                           | 0    |

#### Power datas referred 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



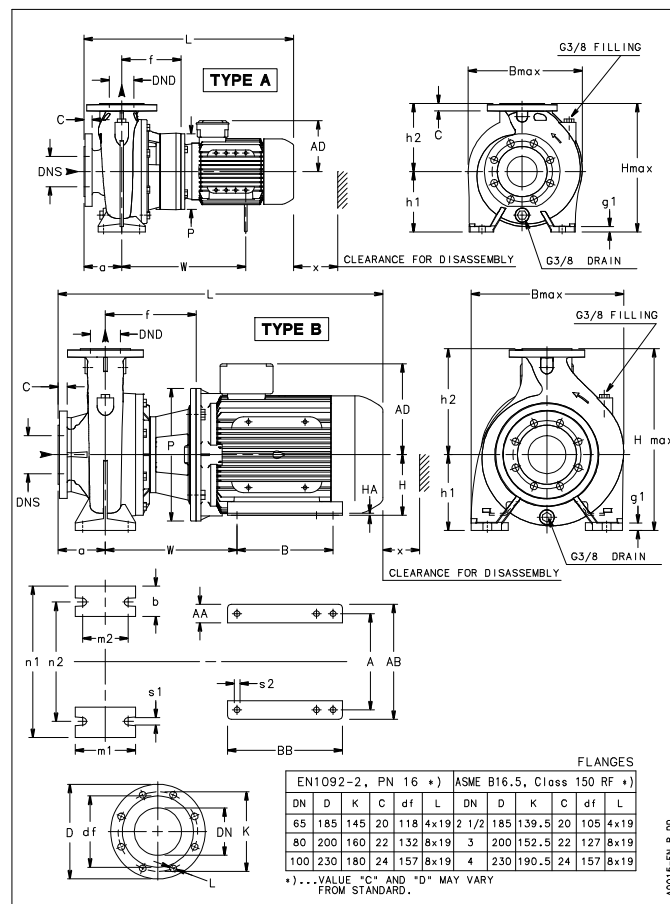
## NSCS80-200/55/P46PCC4

## Dimensions

Company name  
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Blockpump  
4 poles motor  
PLM 132 B5 5,5 kW

Electrical and dimensional data refer to IE3 motor



### Dimensions [ inch ]

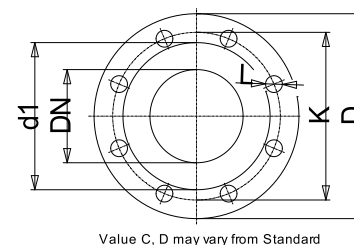
|         |                                  |  |  |
|---------|----------------------------------|--|--|
| a       | 4 <sup>15</sup> / <sub>16</sub>  |  |  |
| AD      | 7 <sup>1</sup> / <sub>2</sub>    |  |  |
| b       | 2 <sup>9</sup> / <sub>16</sub>   |  |  |
| Bmax    | 14 <sup>1</sup> / <sub>8</sub>   |  |  |
| DNd     | 3 <sup>1</sup> / <sub>8</sub>    |  |  |
| DNs     | 3 <sup>15</sup> / <sub>16</sub>  |  |  |
| f       | 8 <sup>1</sup> / <sub>4</sub>    |  |  |
| g1      | 5 <sup>5</sup> / <sub>8</sub>    |  |  |
| h1      | 7 <sup>1</sup> / <sub>16</sub>   |  |  |
| h2      | 9 <sup>13</sup> / <sub>16</sub>  |  |  |
| Hmax    | 16 <sup>15</sup> / <sub>16</sub> |  |  |
| L       | 29 <sup>1</sup> / <sub>8</sub>   |  |  |
| m1      | 4 <sup>15</sup> / <sub>16</sub>  |  |  |
| m2      | 3 <sup>3</sup> / <sub>4</sub>    |  |  |
| n1      | 13 <sup>9</sup> / <sub>16</sub>  |  |  |
| n2      | 11 <sup>1</sup> / <sub>32</sub>  |  |  |
| P       | 11 <sup>13</sup> / <sub>16</sub> |  |  |
| s1      | 9 <sup>9</sup> / <sub>16</sub>   |  |  |
| Type    | A                                |  |  |
| Volumen | 1 <sup>1</sup> / <sub>128</sub>  |  |  |
| w       | 17 <sup>13</sup> / <sub>16</sub> |  |  |
| x       | 5 <sup>15</sup> / <sub>16</sub>  |  |  |

### Weight

|              |        |
|--------------|--------|
| Total weight | 126 kg |
|--------------|--------|

### Connections

| Suction nozzle | Discharge nozzle                |
|----------------|---------------------------------|
| DN 100         | DN 80                           |
| PN 16          | PN 16                           |
| EN1092-2       | EN1092-2                        |
| C              | 1 <sup>15</sup> / <sub>16</sub> |
| D              | 9 <sup>1</sup> / <sub>16</sub>  |
| df             | 6 <sup>3</sup> / <sub>16</sub>  |
| DN             | 3 <sup>15</sup> / <sub>16</sub> |
| K              | 7 <sup>1</sup> / <sub>16</sub>  |
| L              | 8 x 19                          |
| C              | 7 <sup>7</sup> / <sub>8</sub>   |
| D              | 7 <sup>7</sup> / <sub>8</sub>   |
| df             | 5 <sup>3</sup> / <sub>8</sub>   |
| DN             | 3 <sup>1</sup> / <sub>8</sub>   |
| K              | 6 <sup>5</sup> / <sub>16</sub>  |
| L              | 8 x 19                          |



Value C, D may vary from Standard

### Dimensions and weight without obligation

|         |                           |            |           |             |           |
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