

# ESHF 65-250/370/L26USNA

## Technical data

Company name  
Contact  
Phone number  
e-mail address

| Operating data |                           |                  |    |  |                |
|----------------|---------------------------|------------------|----|--|----------------|
| 1              | Pumpe type                | Single head pump |    | Fluid                                      | Water          |
| 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 / -10   |
| 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             | Unit with standard coupling        |          |                      |                      |
| 11        | Design                | Horizontal                         |          | Impeller Ø           | Max. inch 8 7/16     |
| 12        | Operating speed       | 3500 rpm                           | Stages 1 |                      | designed inch 8 7/16 |
| 13        | Suction nozzle        | DN 80 / PN 16 / EN1092-1           |          |                      | Min. inch 8 1/16     |
| 14        | Discharge nozzle      | DN 65 / PN 16 / EN1092-1           |          | Flow                 | Nominal US g.p.m.    |
| 15        | Max. casing pressure  | psi 174                            |          |                      | Max- US g.p.m. 581.2 |
| 16        | Max. working pressure | psi 135.9                          |          | Min- US g.p.m. 264.2 |                      |
| 17        | Impeller type         | Radial impeller                    |          | Head                 | Nominal ft           |
| 18        | Head H(Q=0)           | ft 310                             |          |                      | at Qmax ft 219.4     |
| 19        | Max. shaft power      | hp 47.9                            |          |                      | at Qmin ft 310.1     |
| 20        | Pump weight           | kg                                 |          | Shaft power          | hp                   |
| 21        | Total weight          | lb 727.5                           |          | Efficiency           | %                    |
|           |                       |                                    |          | NPSH 3%              | ft                   |

| Materials |                             |                             |  |  |                                   |
|-----------|-----------------------------|-----------------------------|--|--|-----------------------------------|
| 22        |                             | Pump                        |  | Shaft Seal                                   |                                   |
| 23        | Pump body                   | Stainless steel / AISI 316L |  | Single mechanical seal, without shaft sleeve |                                   |
| 24        | Impeller                    | Stainless steel / ASTMCF8M  |  | Uniten 3K                                    | VBVGG                             |
| 25        | SEAL HOUSING                | Stainless steel / AISI 316L |  | Mechanical seal diameter                     | 1 5/16 inch                       |
| 26        | Wear ring                   | Stainless steel / AISI 316L |  | 1. Rotating ring                             | Ceramic                           |
| 27        | Counterwear ring            | Stainless steel / AISI 316L |  | 2. Stationary ring                           | Carbon graphite resin impregnated |
| 28        | Shaft extension             | Stainless steel / AISI 316L |  | 3. Secondary seal                            | Fluorine rubber (FKM)             |
| 29        | Impeller locknut and washer | Stainless steel / AISI 316  |  | 4. Springs                                   | CrNiMo - Steel                    |
| 30        | Tab                         | Stainless steel / AISI 316L |  | 5. Others                                    | CrNiMo - Steel                    |
| 31        | Fill/drain plugs            | Stainless steel / AISI 316  |  | Gaskets of the pump                          | Fluorine rubber (FKM)             |
| 32        |                             |                             |  |  |                                   |
| 33        |                             |                             |  |  |                                   |
| 34        |                             |                             |  |  |                                   |
| 35        |                             |                             |  |  |                                   |
| 36        |                             |                             |  |  |                                   |
| 37        |                             |                             |  |  |                                   |
| 38        |                             |                             |  |  |                                   |
| 39        |                             |                             |  |  |                                   |
| 40        |                             |                             |  |  |                                   |
| 41        |                             |                             |  |  |                                   |

| Motor data |                 |  |                           | Coupling            |                               |
|------------|-----------------|--|---------------------------|---------------------|-------------------------------|
| 42         | Manufacturer    | Lowara                                     |                           | Manufacturer        | Not applicable                |
| 43         | Specific design | IE3 3ph Surface Motor - Premium Efficiency |                           | Series              | Not applicable                |
| 44         | Type            | 3MAS 200 L B3 37 kW                        |                           | Shaft diameter      | Pump 0 inch Motor 2 3/16 inch |
| 45         | Rated power     | 49.618 hp                                  | Rated current 66.5 A      | Frame size          | Not applicable                |
| 46         | Nominal speed   | 3552 rpm                                   | Rated voltage 380 V       | Spacer length inch  | Not applicable                |
| 47         | Frame size      | 200 L                                      | Service factor 1          | Weight lb           |                               |
| 48         | Weight lb       | 476.4                                      | Degree of protection IP55 | Coupling protection | Not applicable                |

| Base plate |        |                | Remarks |  |  |  |
|------------|--------|----------------|---------|--|--|--|
| 49         | Name   | Not applicable |         |  |  |  |
| 50         | Weight | lb             |         |  |  |  |

# ESHF 65-250/370/L26USNA

## Performance curve

Company name  
Contact  
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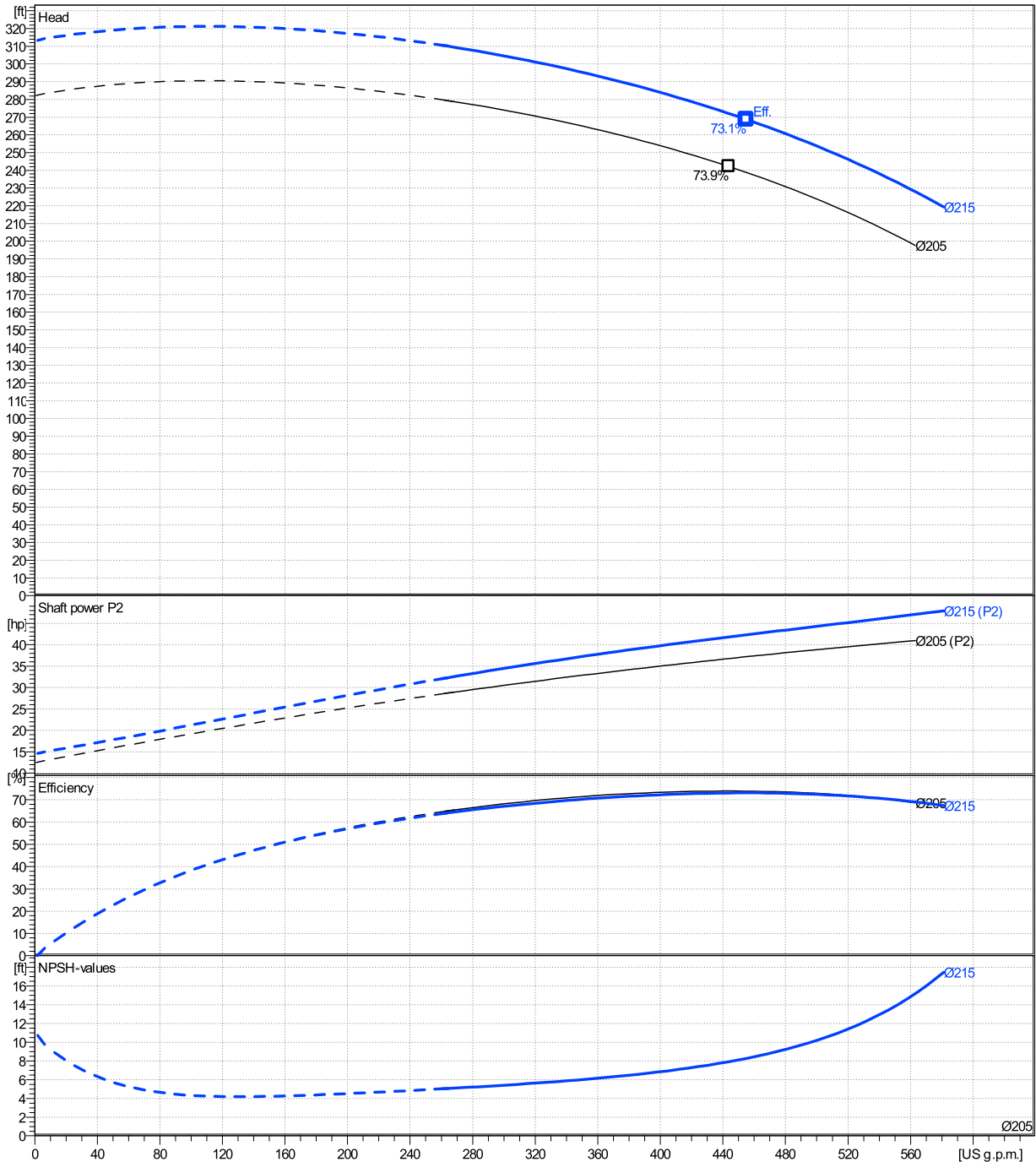
|        | Ø<br>mm | Pump capacity                        |                   |                        | Pump head    |                 | Shaft power P2 |            |                 | Frequency              |      | Hz | 60 |
|--------|---------|--------------------------------------|-------------------|------------------------|--------------|-----------------|----------------|------------|-----------------|------------------------|------|----|----|
|        |         | Operating range<br>Min.<br>US g.p.m. | Max.<br>US g.p.m. | η<br>Max.<br>US g.p.m. | H(Q=0)<br>ft | η<br>Max.<br>ft | P2(Q=0)<br>hp  | Max.<br>hp | η<br>Max.<br>hp | Operating speed<br>rpm | 3500 |    |    |
| actual | 8 7/16  | 264                                  | 581               | 455                    | 313          | 269             | 47.9           | 42.3       | Nominal flow    | US g.p.m.              | 0    |    |    |
| Min.   | 0       | /                                    | /                 | 444                    | 282          | 242             | /              | 36.8       | Nominal head    | ft                     | 0    |    |    |
| Max.   | 8 7/16  | /                                    | /                 | 455                    | 313          | 269             | /              | 42.3       | Inlet pressure  | psi                    | 0    |    |    |
|        |         |                                      |                   |                        |              |                 |                |            | Static head     | ft                     | 0    |    |    |

**Power datas referred to:**

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

Water [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



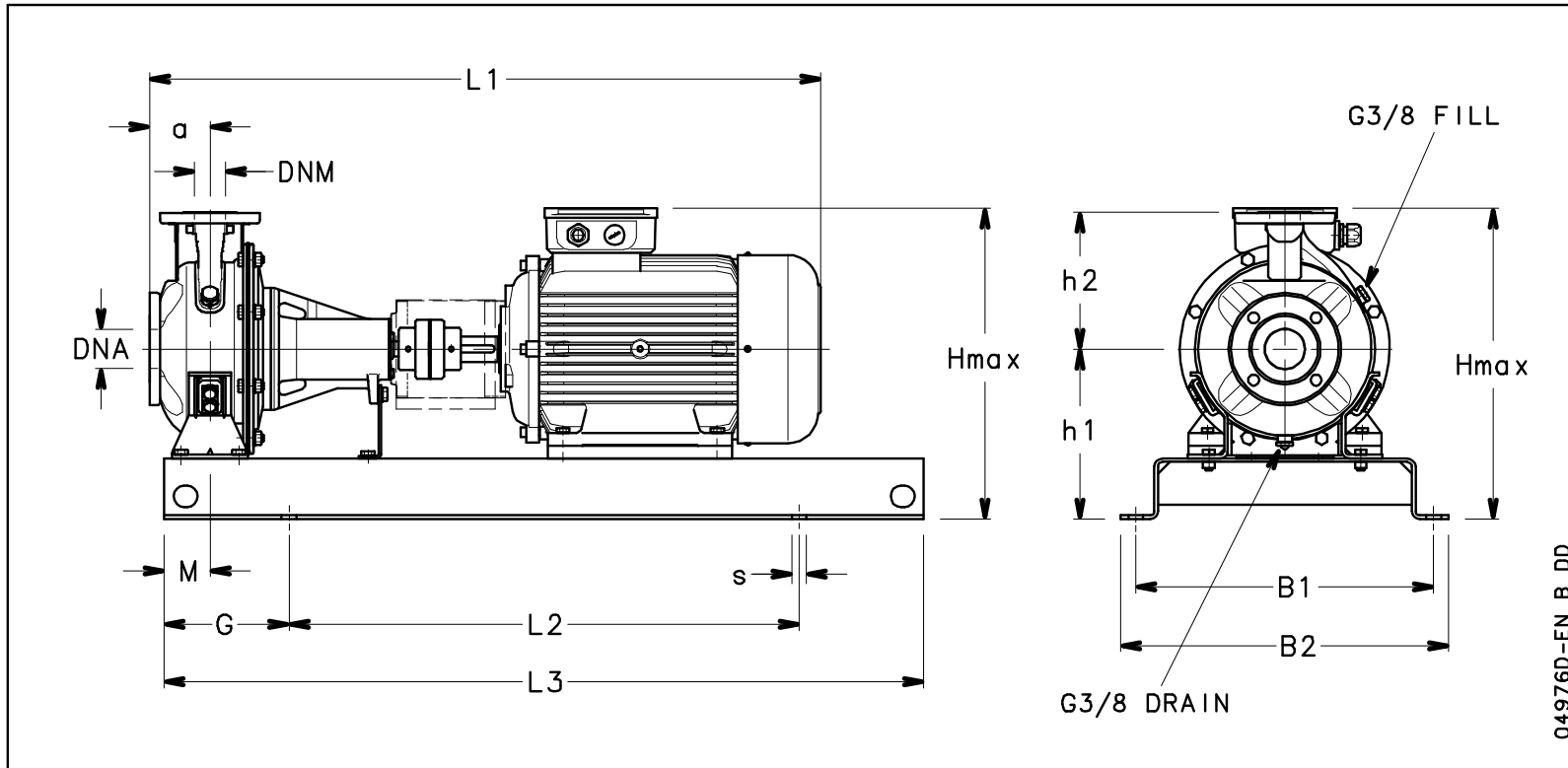
**ESHF 65-250/370/L26USNA**

**Dimensions**

Company name  
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Frame mounted  
Unit with standard coupling  
3MAS 200 L B3 37 kW

Electrical and dimensional data refer to IE3 motor



| Dimensions     |                                 | [ inch ]      |                                 |
|----------------|---------------------------------|---------------|---------------------------------|
| a              | 3 <sup>15</sup> / <sub>16</sub> |               |                                 |
| B1             | 21 <sup>5</sup> / <sub>8</sub>  |               |                                 |
| B2             | 24 <sup>1</sup> / <sub>32</sub> |               |                                 |
| Coupling Type  | 64                              |               |                                 |
| DNA            | 3 <sup>1</sup> / <sub>8</sub>   |               |                                 |
| DNM            | 2 <sup>9</sup> / <sub>16</sub>  |               |                                 |
| G              | 9 <sup>1</sup> / <sub>16</sub>  |               |                                 |
| h1             | 12 <sup>3</sup> / <sub>16</sub> |               |                                 |
| h2             | 9 <sup>13</sup> / <sub>16</sub> |               |                                 |
| Hmax           | 23 <sup>7</sup> / <sub>16</sub> |               |                                 |
| L1             | 53 <sup>5</sup> / <sub>16</sub> |               |                                 |
| L2             | 37 <sup>1</sup> / <sub>64</sub> |               |                                 |
| L3             | 55 <sup>1</sup> / <sub>8</sub>  |               |                                 |
| M              | 3 <sup>9</sup> / <sub>16</sub>  |               |                                 |
| Sscrews        | M24                             |               |                                 |
| Weight         |                                 |               |                                 |
| Total weight   | 330 kg                          |               |                                 |
| Connections    |                                 |               |                                 |
| Suction nozzle | Discharge nozzle                |               |                                 |
| DN 80          | DN 65                           |               |                                 |
| PN 16          | PN 16                           |               |                                 |
| EN1092-1       | EN1092-1                        |               |                                 |
| D              | 7 <sup>7</sup> / <sub>8</sub>   | D             | 7 <sup>9</sup> / <sub>16</sub>  |
| Dia. Holes     | 1 <sup>11</sup> / <sub>16</sub> | Dia. Holes    | 1 <sup>11</sup> / <sub>16</sub> |
| DN             | 3 <sup>1</sup> / <sub>8</sub>   | DN            | 2 <sup>9</sup> / <sub>16</sub>  |
| G              | 4 <sup>1</sup> / <sub>2</sub>   | G             | 4 <sup>1</sup> / <sub>8</sub>   |
| M              | 6 <sup>5</sup> / <sub>16</sub>  | M             | 5 <sup>11</sup> / <sub>16</sub> |
| Max thickness  | 1 <sup>13</sup> / <sub>16</sub> | Max thickness | 1 <sup>13</sup> / <sub>16</sub> |

**Dimensions and weight without obligation**

|         |                         |            |           |             |           |
|---------|-------------------------|------------|-----------|-------------|-----------|
| Project | Xylect-20185048         | Created by |           | Last update | 1/13/2025 |
| Block   | ESHF 65-250/370/L26USNA | Created on | 1/13/2025 |             |           |