

# 15SH08B15T3E2

|                       |                |
|-----------------------|----------------|
| <b>Technical Data</b> | <b>Company</b> |
|                       | <b>Contact</b> |
|                       | <b>Tel.</b>    |
|                       | <b>E-mail</b>  |

| Operating Data |                           |                  |                           |                    |          |
|----------------|---------------------------|------------------|---------------------------|--------------------|----------|
| 1              | Pump 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      | pH-value at t A           | 7                  |          |
| 4              | Nominal head              | ft 0             | Density at t A            | lb/ft <sup>3</sup> | 62.4     |
| 5              | Static head               | ft 0             | Kin. viscosity at t A     | ft <sup>2</sup> /s | 1.689E-5 |
| 6              | Inlet pressure            | psi 0            | Vapor pressure at t A     | psi                | 14.5     |
| 7              | Environmental temperature | °F 68            | Content of solid%         | Solid size         | inch 0 0 |
| 8              | Available system NPSH     | ft 0             | Altitude                  | ft                 | 0        |

| Pump Data |                       |  |             |                   |                    |  |
|-----------|-----------------------|--|-------------|-------------------|--------------------|--|
| 9         | Design                | Highly efficient stainless steel end suction pumps |             |                   |                    |  |
| 10        | Execution             | Rotation: 12 oClock [STD]                          |             | Max.              | inch 8 1/4         |  |
| 11        | Operating speed       | rpm 3500   | Impeller Ø  | Designed          | inch 7 13/16       |  |
| 12        | Group                 | S  |             | Min.              | inch 6 1/8         |  |
| 13        | Suction               | NPS 2.5 / CL150 / ASME B16.5 (e-SH)                |             | Nominal US g.p.m. |                    |  |
| 14        | Discharge port        | NPS 1.5 / CL150 / ASME B16.5 (e-SH)                |             | Flow              | Max- US g.p.m. 237 |  |
| 15        | Max. casing pressure  | psi  |             |                   | Min- US g.p.m. 55  |  |
| 16        | Max. working pressure | psi 104.9  | Head        | Nominal           | ft                 |  |
| 17        | Impeller type         | Radial impeller                                    |             | at Qmax           | ft 146.5           |  |
| 18        | Head H(Q=0)           | ft 240   |             | at Qmin           | ft 238.8           |  |
| 19        | Max. shaft power      | hp 14  | Shaft power | hp                |                    |  |
| 20        | Pump weight           | lb 65.0  | Efficiency  | %                 |                    |  |
| 21        | Total weight          | lb On demand                                       | NPSH 3%     | ft                |                    |  |

| Materials |  |                            |                   |                              |  |
|-----------|--|----------------------------|-------------------|------------------------------|--|
| 22        |  | Pump                       |                   | Shaft Seal                   |  |
| 23        | Casing                                   | Stainless steel 316L       | John Crane        | Elastomer Bellows Shaft Seal |  |
| 24        | Impeller                                 | Stainless steel 316L       | Type 21           |                              |  |
| 25        | Wear Ring                                | Stainless steel 316L       | Seal faces        | Carbon [STD]                 |  |
| 26        | Adapter                                  | Gray cast iron class 20B   | Stationary ring   | Silicon Carbide              |  |
| 27        | Ball bearing (outboard)                  | Steel                      | Elastomers        | FKM                          |  |
| 28        | Pump shaft                               | Steel grade 1213           | Springs           | Stainless steel CF8M (316)   |  |
| 29        | Deflector                                | Buna-N                     | Other metal parts | Stainless steel CF8M (316)   |  |
| 30        | Shaft sleeve                             | Stainless steel CF8M (316) |                   |                              |  |
| 31        | Bearing Cover                            | Gray cast iron class 20B   |                   |                              |  |
| 32        | Ball bearing (inboard)                   | Steel                      |                   |                              |  |
| 33        | Impeller Key                             | Steel                      |                   |                              |  |
| 34        | Seal Housing                             | Stainless steel 316L       |                   |                              |  |
| 35        | Impeller Washer                          | Stainless steel CF8M       |                   |                              |  |
| 36        | Bearing Frame                            | Gray cast iron class 20B   |                   |                              |  |
| 37        | Lip Seal                                 | Not available              |                   |                              |  |
| 38        | V-Ring                                   | Buna-N                     |                   |                              |  |
| 39        | Casing bolt with nut (casing to adapter) | Stainless Steel            |                   |                              |  |
| 40        | Retaining ring                           | Steel                      |                   |                              |  |
| 41        |  |                            |                   |                              |  |

| Motor Data |                 |                      |                  |       |  |
|------------|-----------------|----------------------|------------------|-------|--|
| 42         | Manufacturer    | Baldor               |                  |       |  |
| 43         | Specific design | NEMA 3 ph TEPE [STD] |                  |       |  |
| 44         | Type            | Frame 254TCZ - 15 hp |                  |       |  |
| 45         | Rated power     | 15 hp                | Item no.         |       |  |
| 46         | Nominal speed   | 3600 rpm             | Service factor   | 1.15  |  |
| 47         | Frame size      | 254TCZ               | Electric voltage | 460 V |  |
| 48         | Weight          | lb 259.0             |                  |       |  |

| Base Plate |        |    | Remarks |  |  |
|------------|--------|----|---------|--|--|
| 49         | Name   |    |         |  |  |
| 50         | Weight | lb |         |  |  |
|            |        |    |         |  |  |
|            |        |    |         |  |  |

|         |            |            |            |             |
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| Project | Project ID | Created by | Created on | Last update |
|         |            |            | 09-03-19   |             |

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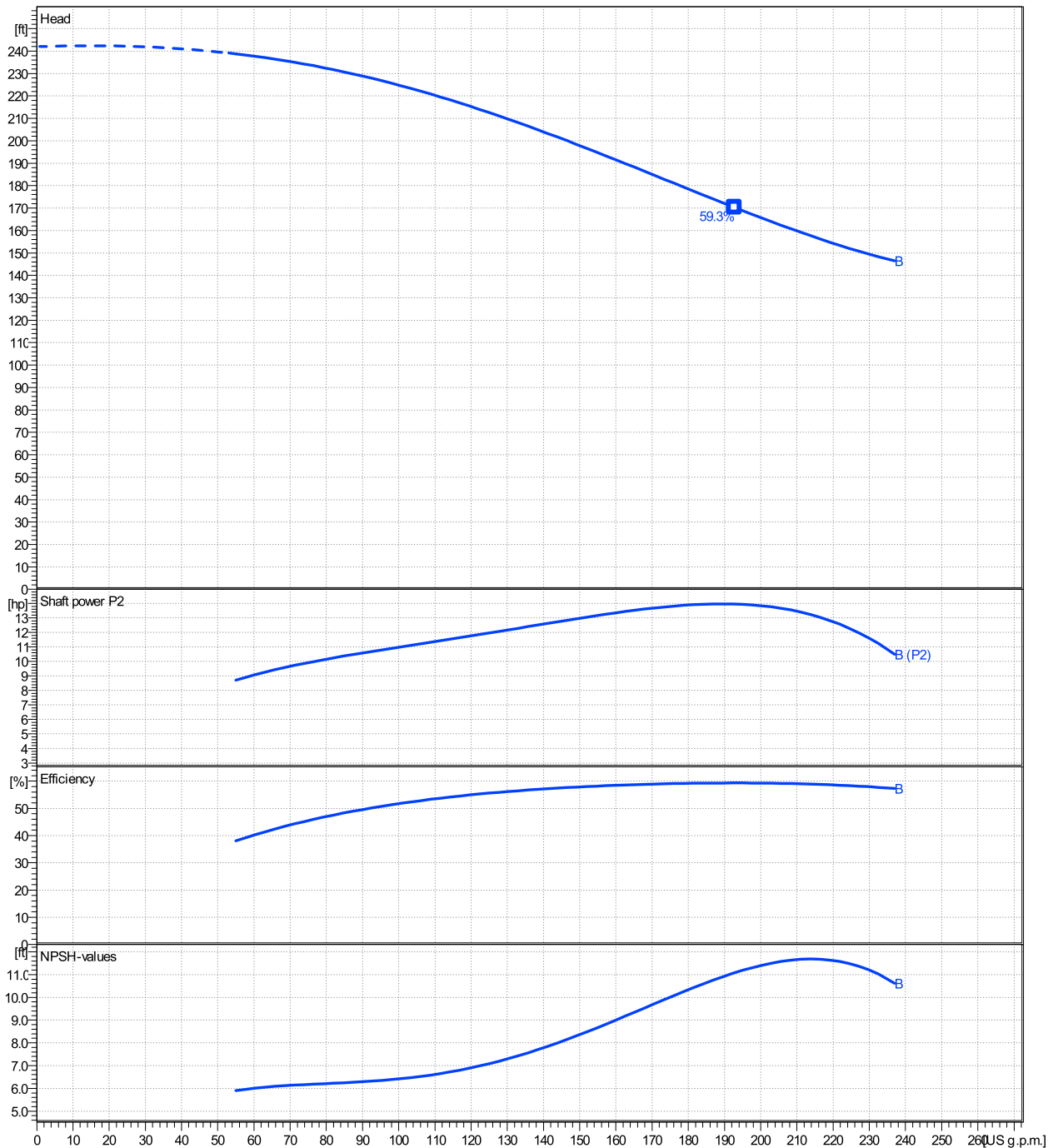
## Performance Curve

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|      | Ø<br>inch | Delivered Flow<br>Application Range |                   |                     | Lift Capability |                 | Shaft Power P2 |            |                 | Frequency              |                           | Hz   | 60 |
|------|-----------|-------------------------------------|-------------------|---------------------|-----------------|-----------------|----------------|------------|-----------------|------------------------|---------------------------|------|----|
|      |           | Min.<br>US g.p.m.                   | Max.<br>US g.p.m. | Max. η<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 | Nominal flow<br>US g.p.m. |      |    |
| Is   | 7.812     | 55                                  | 237               | 193                 | 242             | 170             | 14             | 14         |                 |                        |                           | 3500 |    |
| Min. | 6.125     | /                                   | /                 | 159                 | 151             | 100             | /              | 5.79       |                 |                        |                           | 0    |    |
| Max. | 8.250     | /                                   | /                 | 202                 | 265             | 206             | /              | 16.1       |                 |                        |                           | 0    |    |
|      |           |                                     |                   |                     |                 |                 |                |            |                 | Nominal head           | ft                        | 0    |    |
|      |           |                                     |                   |                     |                 |                 |                |            |                 | Inlet pressure         | psi                       | 0    |    |
|      |           |                                     |                   |                     |                 |                 |                |            |                 | Static head            | ft                        | 0    |    |

**Power data referred to:**

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



|         |            |            |                        |             |
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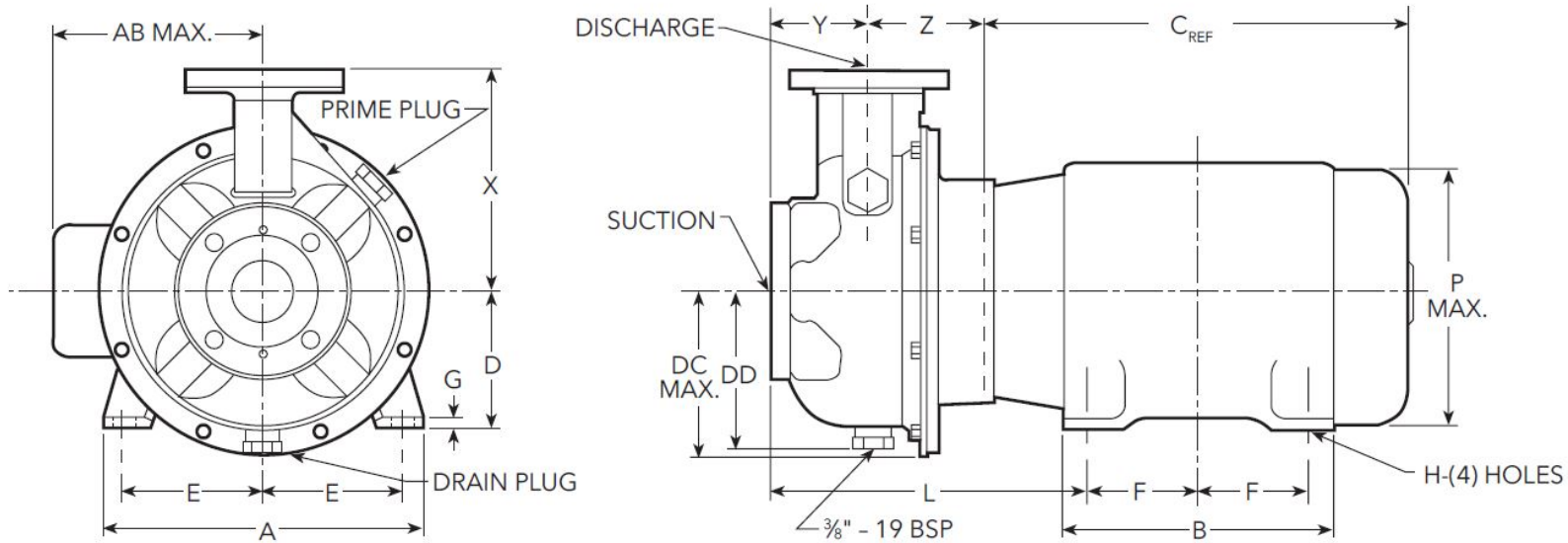
# 15SH08B15T3E2

## Dimensions

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Close coupled  
Rotation: 12 oClock [STD]  
NEMA 3 ph TEPE [STD]Frame 254TCZ - 15 hp

| Dimensions |                                | [ inch ] |  |
|------------|--------------------------------|----------|--|
| DCmax      | 5 <sup>5</sup> / <sub>8</sub>  |          |  |
| DD         | 5 <sup>3</sup> / <sub>8</sub>  |          |  |
| L          | 12 <sup>1</sup> / <sub>8</sub> |          |  |
| X          | 7 <sup>1</sup> / <sub>8</sub>  |          |  |
| Y          | 4                              |          |  |
| Z          | 3 <sup>5</sup> / <sub>8</sub>  |          |  |



| Connections         |                       |
|---------------------|-----------------------|
| <b>Suction</b>      | <b>Discharge port</b> |
| NPS 2.5             | NPS 1.5               |
| CL150               | CL150                 |
| ASME B16.5 (e-SH)   | ASME B16.5 (e-SH)     |
| Weight (+/- 5%)     |                       |
| <b>Pump</b>         | 65 lb                 |
| <b>Base Plate</b>   |                       |
| <b>Motor</b>        | 259 lb                |
| <b>Total weight</b> | <b>On demand lb</b>   |

Note: Drawing not to be used for construction purposes. Weights subject to change.

|         |            |            |                        |             |
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