

|              |             |            |
|--------------|-------------|------------|
| Customer     | Date        | 03.02.2020 |
| Contact      | Project     |            |
| Phone number | Project no. |            |
| Email        |             |            |

# 2ST1H9G4

## Operating data

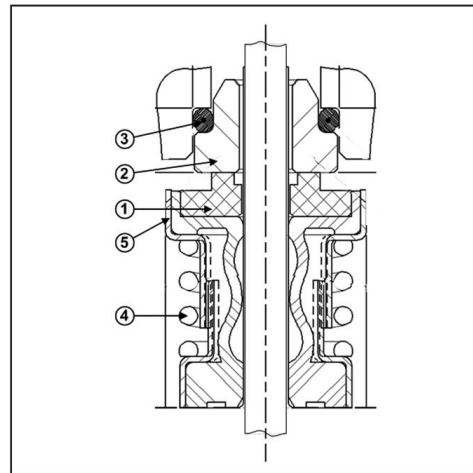
|                           |                   |                           |                             |
|---------------------------|-------------------|---------------------------|-----------------------------|
| Pump type                 | End Suction Pumps | Fluid                     | Water                       |
| No. of pumps / Reserve    | 1 / 0             | Operating temperature t A | °F 39.2                     |
| Nominal flow              | US g.p.m. 0       | pH-value at t A           | 7                           |
| Nominal head              | ft 0              | Density at t A            | lb/ft <sup>3</sup> 62.4     |
| Static head               | ft 0              | Kin. viscosity at t A     | ft <sup>2</sup> /s 1.689E-5 |
| Inlet pressure            | psi 0             | Vapor pressure at t A     | psi 14.5                    |
| Environmental temperature | °F 68             | Solids                    | 0                           |
| Available system NPSH     | ft 0              | Altitude                  | ft 0                        |

## Pump data

|                       |                         |                  |                    |
|-----------------------|-------------------------|------------------|--------------------|
| Make                  | Goulds Water Technology | Nominal          | US g.p.m. ( )      |
| Speed                 | rpm 3500                | Flow             | Max- US g.p.m. 104 |
| No. of stages         | 1                       |                  | Min- US g.p.m.     |
| Max. casing pressure  | psi                     | Nominal          | ft                 |
| Max. working pressure | psi 35.4                | Head             | at Qmax ft 45.3    |
| Head H(Q=0)           | ft 82                   |                  | at Qmin ft 81.6    |
| Weight                | lb On demand            | Shaft power      | hp ( )             |
|                       | Max. inch 6 1/8         | Max. shaft power | hp 2.1             |
| Impeller R            | designed inch 4 5/8     | Efficiency       | %                  |
|                       | Min. inch 4             | NPSH 3%          | ft                 |

## Shaft Seal

|                      |                 |
|----------------------|-----------------|
| Type 21 NPE          | John Crane      |
| NPE Mechanical Seal  |                 |
| 1 - Rotating Face    | Carbon          |
| 2 - Stationary Face  | Silicon Carbide |
| 3 - Elastomers       | Viton           |
| 4 - Metal Components | ALSI 316 SS     |



## Motor data

|                 |                             |                      |       |            |          |                  |          |
|-----------------|-----------------------------|----------------------|-------|------------|----------|------------------|----------|
| Manufacturer    | Bluffton                    | Electric voltage     | 460 V | Speed      | 3500 rpm | Insulation class | B        |
| Specific design | 3ph TEFC Premium Efficiency |                      |       | Frame size | 56J      | Colour           | RAL 5010 |
| Type            | K10D32E5EB1G                | Electric current     | 6.2 A |            |          |                  |          |
| Rated power     | 3 hp                        | Degree of protection | IP 55 |            |          |                  |          |

## Remarks:

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## Pump Materials

|                                    |              |
|------------------------------------|--------------|
| 100-Casing                         | AISI 316L SS |
| 101-Impeller                       | AISI 316L SS |
| 108-Motor adapter                  | AISI 316L SS |
| 108A-Motor adapter seal vent/flush | AISI 316L SS |
| 123-Deflector                      | BUNA-N       |
| 184-Seal housing                   | AISI 316L SS |
| 184 A-Seal housing seal vent/flush | AISI 316L SS |
| 347-Guidevane                      | AISI 316L SS |
| 349-Seal ring, guidevane           | Viton        |
| 370-Socket head screws, casing     | AISI 410 SS  |
| 371-Bolts, motor                   | Plated Steel |
| 408-Drain and vent plug, casing    | AISI 316L SS |
| 412B-O-ring, drain and vent plug   | Viton        |
| 513-O-ring, casing                 | Viton        |
| Motor-NEMA standard, 56J flange    | -            |

Remarks:

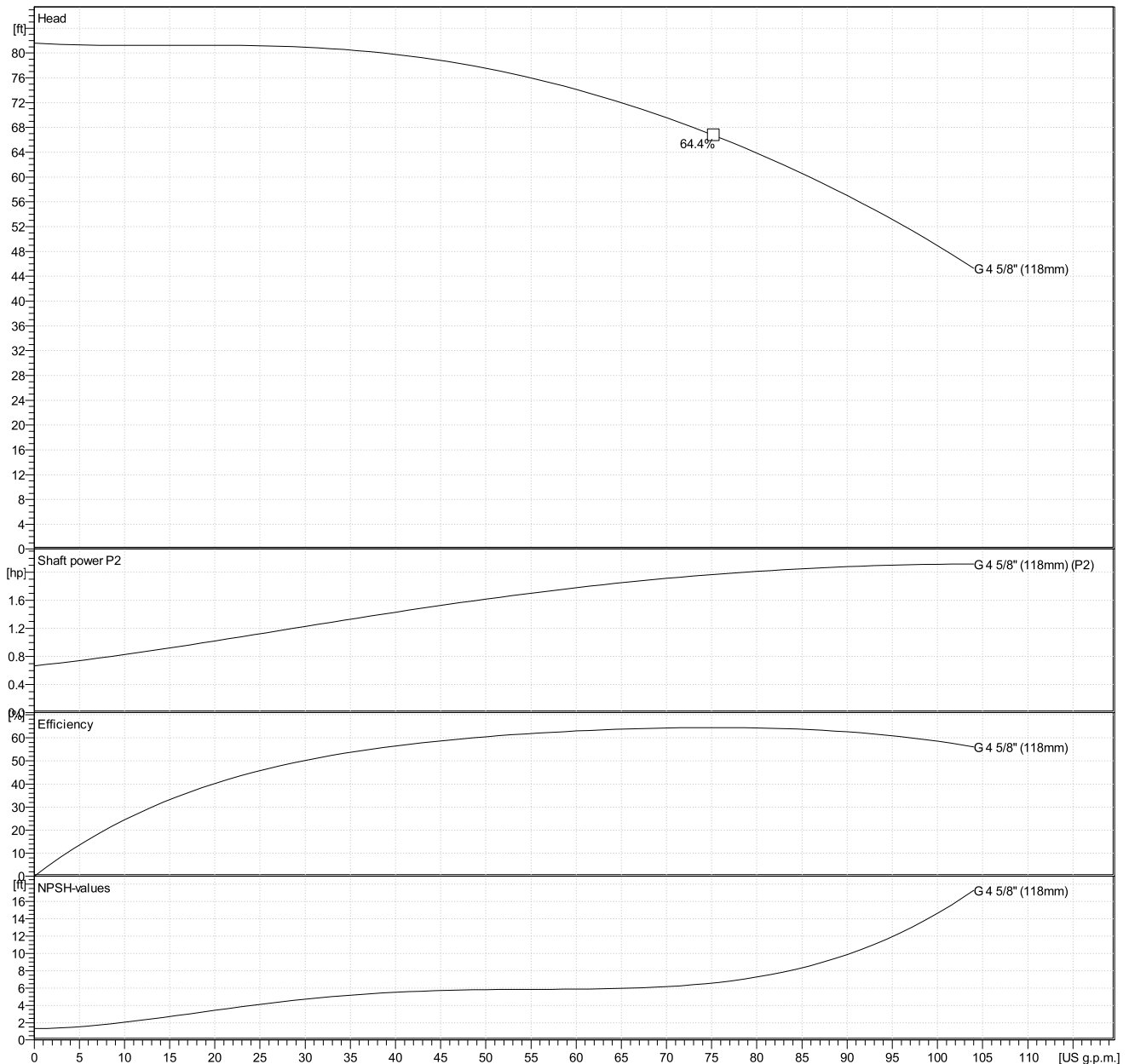
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## Hydraulic Data

| Operating Data Specification |             | Hydraulic data (duty point) |  | Impeller design |                                 |
|------------------------------|-------------|-----------------------------|--|-----------------|---------------------------------|
| Flow                         | 0 US g.p.m. | Flow                        |  | Impeller R      | 4 <sup>5</sup> / <sub>8</sub> " |
| Head                         | 0 ft        | Head                        |  | Frequency       | 60 Hz                           |
| Static head                  | 0 ft        |                             |  | Speed           | 3500 rpm                        |

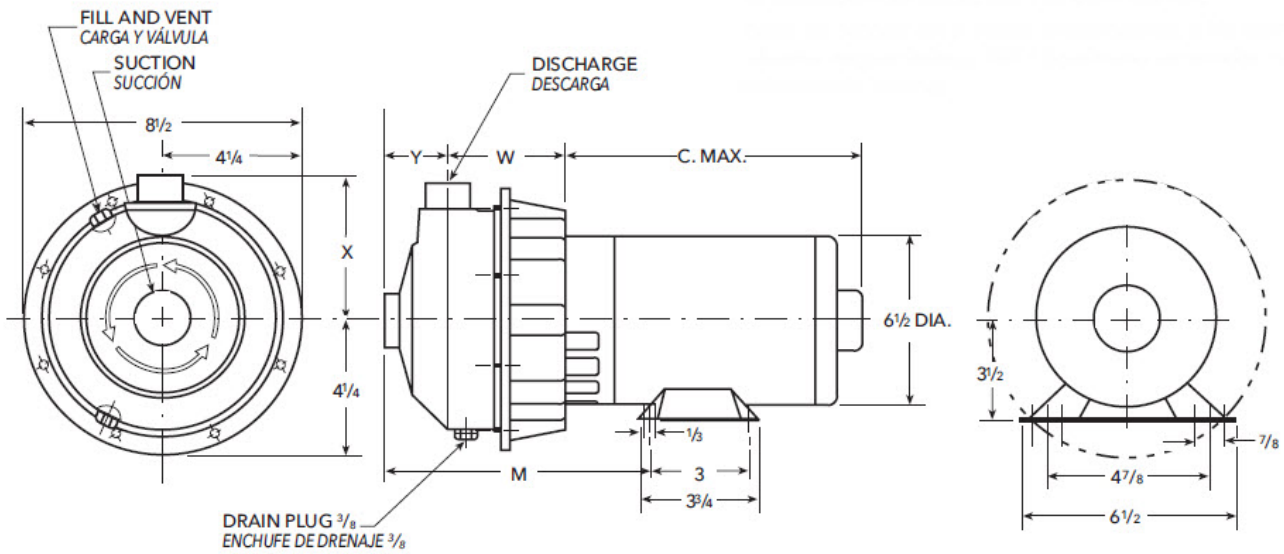
Power data referred to:  
 Water [100%] ; 39.2°F; 62.4lb/ft<sup>3</sup>; 1.69E-5ft<sup>2</sup>/s  
 Performance according to ISO 9906 - Annex A



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## Drawing



## Dimensions inch

|           |                  |  |  |  |  |                     |
|-----------|------------------|--|--|--|--|---------------------|
| C. Max    | $13\frac{9}{16}$ |  |  |  |  | Weight<br>On demand |
| Discharge | $1\frac{1}{4}$   |  |  |  |  |                     |
| M         | $7\frac{7}{8}$   |  |  |  |  |                     |
| Suction   | $1\frac{1}{2}$   |  |  |  |  |                     |
| W         | $3\frac{3}{4}$   |  |  |  |  |                     |
| X         | $4\frac{1}{2}$   |  |  |  |  |                     |
| Y         | $2\frac{1}{8}$   |  |  |  |  |                     |