

# Technical data

Pump name

O6BHE48-10/22 6

|          |            |                                       |           |
|----------|------------|---------------------------------------|-----------|
| Customer | Date       | 2024-06-20                            | Company   |
| Contact  | Item no.   |                                       | Issued by |
| Phone    | Project    |                                       | Phone     |
| E-mail   | Project ID | Project redenumit 2024-06-20 16:39:09 | E-mail    |

## Requested data

|   |                           |                           |                       |        |
|---|---------------------------|---------------------------|-----------------------|--------|
| 1 | Pump type                 | SUBMERSIBLE DEEPWELL PUMP | Fluid                 | Water  |
| 2 | Number of pumps / Reserve | 1 / 0                     | Liquid temperature °C | 20     |
| 3 | Flow m³/h                 |                           | Kin. viscosity mm²/s  | 1.005  |
| 4 | Head m                    |                           | Vapour pressure bar   | 0.0234 |
| 5 | Geodetic head m           |                           | PH value              |        |
| 6 | Inlet pressure (pin) bar  | 0                         | Density kg/m³         | 998.3  |
| 7 | Available system NPSH     |                           | Solids Weight %       | 0      |
| 8 | Ambient temperature °C    | 20                        |                       |        |

## Pump

|    |                           |                                |                                   |           |      |                        |
|----|---------------------------|--------------------------------|-----------------------------------|-----------|------|------------------------|
| 9  | Pump name                 | O6BHE48-10/22 6                | Frequency                         |           | Hz   | 60                     |
| 10 | Design                    | SUBMERSIBLE DEEPWELL PUMP      | Installation type                 |           |      | STANDARD               |
| 11 | Manufacturer              | EBARA                          | Impeller Diameter                 | Max.      | mm   | 0                      |
| 12 | Speed rpm                 | 3460                           |                                   | Designed  | mm   |                        |
| 13 | No. of Stage              | 10                             |                                   | Min.      | mm   | 0                      |
| 14 | Connection Suction side   |                                | Flow                              | Operating | m³/h |                        |
| 15 | Connection Discharge side |                                |                                   | Max-      | m³/h | 75                     |
| 16 | Max Working Pressure bar  | 70                             |                                   | Min-      | m³/h | 30                     |
| 17 | Shut-off head bar         | 19.10                          | Head                              | Operating | m    |                        |
| 18 | Total weight kg           | See the table of "Dimensions". |                                   | -(Qmax.)  | m    | 77.3                   |
| 19 | Shaft power kW            | ( Power / Stage )              |                                   | -(Qmin.)  | m    | 164.2                  |
| 20 |                           |                                | Max. Shaft Power at max. impeller |           | kW   | 2.22 ( Power / Stage ) |
| 21 | Required pump NPSH m      |                                | Efficiency                        |           | %    |                        |

## Materials

|    |                  |                      |  |  |
|----|------------------|----------------------|--|--|
| 22 | Impeller         | EN 1.4301 (AISI 304) |  |  |
| 23 | Discharge casing | EN 1.4301 (AISI 304) |  |  |
| 24 | Shaft            | EN 1.4057 (AISI 431) |  |  |
| 25 | Diffuser         | EN 1.4301 (AISI 304) |  |  |
| 26 |                  |                      |  |  |
| 27 |                  |                      |  |  |

## Motor

|    |                      |                                                    |                    |      |
|----|----------------------|----------------------------------------------------|--------------------|------|
| 28 | Manufacturer         | SUMOTO                                             | Insulation class   | F    |
| 29 | Type                 | BHE_6 inch_60_22_380_Three Phase                   | Phases             | 3~   |
| 30 | Specific design      | Submersible oil filled type / 60 Hz / Pole pairs 1 | Frame size         |      |
| 31 | Rated power kW       | 22                                                 | Weight kg          | 70   |
| 32 | Number of poles      | 2                                                  | Electric voltage V | 380  |
| 33 | Speed rpm            | 3600                                               | Electric current A | 47.3 |
| 34 | Degree of protection | IP 58                                              |                    |      |
| 35 |                      |                                                    |                    |      |

## Remarks

# Performance curve

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## Requested data

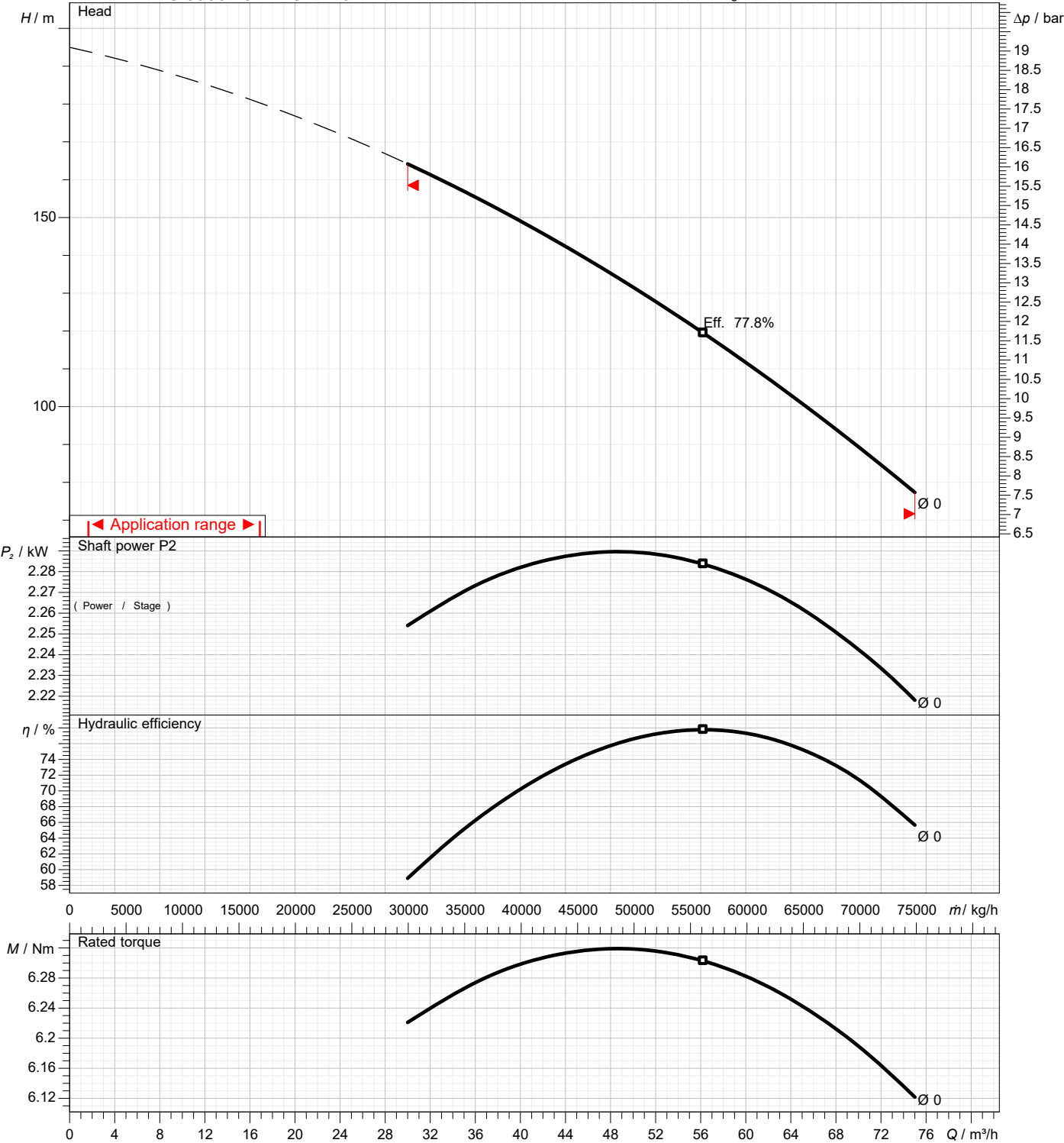
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                   |          |    |                 |     |      |
|-------------------|----------|----|-----------------|-----|------|
| Operating flow    | m³/h     |    | Frequency       | Hz  | 60   |
| Operating head    | m        |    | Number of poles |     | 2    |
| Impeller Diameter | Designed | mm | Speed           | rpm | 3460 |

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

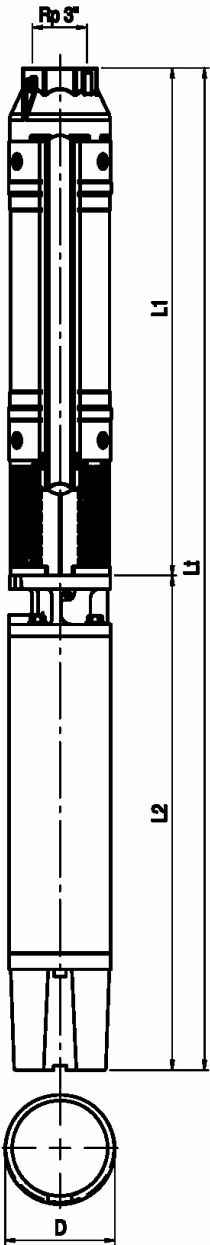


EBARA

Dimensions

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|          |                                                 |           |
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| Dimensions in mm |             |       |  |  |  |  |  |  |
|------------------|-------------|-------|--|--|--|--|--|--|
| 1                | D - 1 CABLE | 143   |  |  |  |  |  |  |
| 2                | D - 2 CABLE | 144.5 |  |  |  |  |  |  |
| 3                | L1          | 1503  |  |  |  |  |  |  |
| 4                | L2          | 890   |  |  |  |  |  |  |
| 5                | Lt          | 2393  |  |  |  |  |  |  |
| 6                | Weight kg   | 174   |  |  |  |  |  |  |
| 7                |             |       |  |  |  |  |  |  |
| 8                |             |       |  |  |  |  |  |  |
| 9                |             |       |  |  |  |  |  |  |
| 10               |             |       |  |  |  |  |  |  |
| 11               |             |       |  |  |  |  |  |  |
| 12               |             |       |  |  |  |  |  |  |
| 13               |             |       |  |  |  |  |  |  |
| 14               |             |       |  |  |  |  |  |  |
| 15               |             |       |  |  |  |  |  |  |

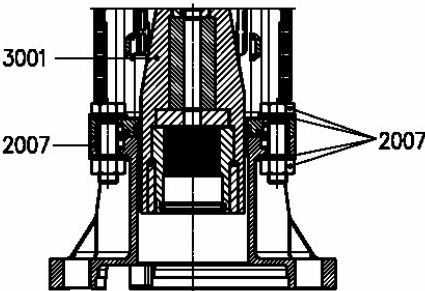
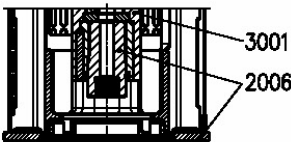
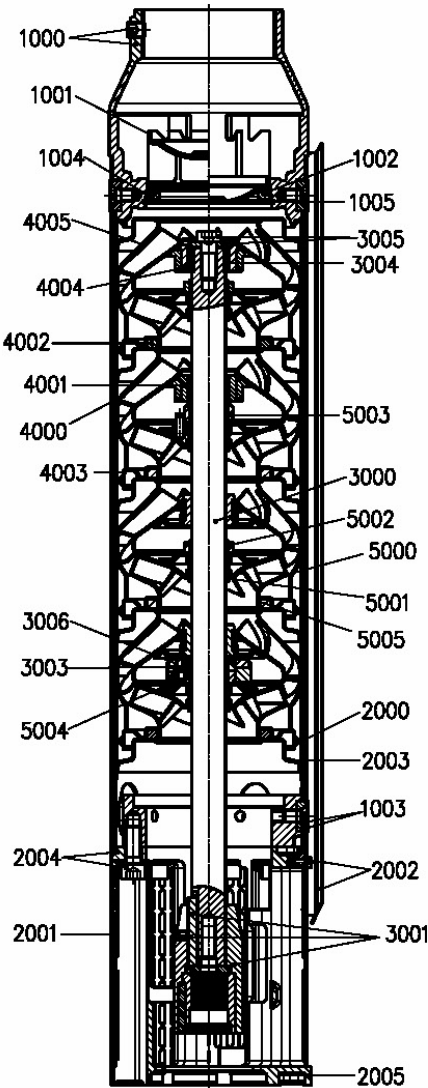
(1/2)

Construction

Pump name

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|          |                                                 |           |
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(2/2)

## Construction

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| N°   | PART NAME                           | MATERIAL                                        | Q.TY |
|------|-------------------------------------|-------------------------------------------------|------|
| 1000 | Discharge head and screw            | Stainless steel (AISI 304)                      | -    |
| 1001 | Valve                               | Stainless steel (AISI 316)                      | -    |
| 1002 | O-ring                              | Nitrile rubber (NBR)                            | --   |
| 1003 | Screw s and outer case locking nuts | Stainless steel (AISI 316)                      | -    |
| 1004 | Valve support                       | Stainless steel (AISI 316)                      | -    |
| 1005 | Seeger ring                         | Stainless steel (AISI 316)                      | -    |
| 2000 | Outer case                          | Stainless steel (AISI 304)                      | -    |
| 2001 | Suction strainer                    | Stainless steel (AISI 316)                      | -    |
| 2002 | Cable guard and screw s             | Stainless steel (AISI 316)                      | -    |
| 2003 | Initial spacer                      | Stainless steel (AISI 304)                      | -    |
| 2004 | Flange and bolts                    | Stainless steel (AISI 304)                      | -    |
| 2005 | Motor adapter                       | Stainless steel (AISI 304)                      | -    |
| 2006 | 4" motor flange/coupling adapter    |                                                 | -    |
| 2007 | 8"Motor adapter/bolts and washer    | Stainless steel (AISI 431)                      | -    |
| 3000 | Pump shaft                          | Stainless steel (AISI 431/329)                  | -    |
| 3001 | Coupling                            | Stainless steel (AISI 316)                      | -    |
| 3003 | Lower up-thrust washer              | Stainless steel (AISI 316)                      | -    |
| 3004 | Upper journal sleeve                | Stainless steel (AISI 329) with ceramic coating | -    |
| 3005 | Screw and washer                    | Stainless steel (AISI 316)                      | -    |
| 3006 | Up-thrust ring                      | Teflon (PTFE)                                   | -    |
| 4000 | Diffusers                           | Stainless steel (AISI 304)                      | -    |
| 4001 | Secondary bearing bush              | Nitrile rubber (NBR)                            | -    |
| 4002 | Floating neck ring                  | Teflon (PTFE)                                   | -    |
| 4003 | Flange clamping neck ring           | Stainless steel (AISI 304)                      | -    |
| 4004 | Bearing bush                        | Nitrile rubber (NBR)                            | -    |
| 4005 | Last/intermediate diffuser          | Stainless steel (AISI 316)                      | -    |
| 5000 | Impeller                            | Stainless steel (AISI 304)                      | -    |
| 5001 | Split cone                          | Stainless steel (AISI 316)                      | -    |
| 5002 | Split cone nut                      | Stainless steel (AISI 316)                      | -    |
| 5003 | Intermediate split cone nut         | Stainless steel (AISI 316)                      | -    |
| 5004 | Up-thrust split cone nut            | Stainless steel (AISI 304)                      | -    |
| 5005 | Wear ring                           | Stainless steel (AISI 304)                      | -    |