



DAB PUMPS S. p. A.  
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[Http://www.dabpumps.com](http://www.dabpumps.com)

**Engeldot Technische Groothandel B.V.**

Industrieweg 36  
7921 JP Zuidwolde - the Netherlands  
Phone 085 - 487 46 04  
[info@engeldot.nl](mailto:info@engeldot.nl)

-  
To the attention of

Verzonden op:

Onderwerp:

Sincerely,

Phone 085 - 487 46 04

Cell.

[info@engeldot.nl](mailto:info@engeldot.nl)

*Engeldot Technische Groothandel B.V.*



WATER • TECHNOLOGY

## QUOTATION

06/08/2022

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DAB PUMPS S.p.A.  
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|   |  |  |  |
|---|--|--|--|
| Receiver  |  | From   |  |
| Society<br>Reference<br>Address<br>Phone<br>Fax<br>E-mail |  | Engeldot Technische Groothandel B.V.<br><br>Industrieweg 3f<br>085 - 487 46 04<br><br>info@engeldot.nl |  |

| Pos. nr              | Art.-nr. | Omschrijving   | Aant. | idsprijs / EUR | lijstprijs / EUR |
|----------------------|----------|--|-------|----------------|------------------|
| <b>1 SS7 (Q= H=)</b> |          |  |       |                |                  |
| 1.1                  | 60167435 | <p>Centrifugal pump: SS7A8<br/>SS7A8</p> <p><b>TECHNICAL DATA</b><br/>Performance range: flow up to 110 m3/h and max head of 423 m<br/>Max. quantity of sand/silt: 50g/m3<br/>Max. ambient temperature: 30°C (50°C available on request)<br/>Outlet connection diameter (inside threaded): 5"<br/>Nr of starts: refer to the motor specification<br/>Motor Cooling flow: refer to the motor specification<br/>Installation: horizontal or vertical, refer to the motor specification</p> <p><b>APPLICATIONS</b><br/>Multistage mixed-flow borehole electric pumps, completely made in stainless steel (AISI 304L or AISI 316 on request), usable for wells from a minimum diameter equal to pump size or greater and capable of developing a wide range of Flows and Heads.<br/>These pumps can be used in a wide range of lifting, distributing, and pressuring application: domestic and general water supply; sprinkler and drip irrigations systems; fire-fighting installations; lowering of groundwater level; industrial supplies as mining, hot springs, autoclaves and tanks.<br/>These pumps are suitable both for standard water and for aggressive water applications by choosing the proper manufacturing material (AISI 304L or AISI 316) both for hydraulic part and motor.<br/>Special version of motors with PE2+PA windings can be used on request for high-temperature water applications up to maximum 50°C.<br/>Pumps can be installed both vertically and horizontally simply by removing the non-return valve and adding a cooling sleeve to the suction case (the only remark is to check the motor applicability to horizontal operations, refer to the motor specifications section).</p> <p><b>CONSTRUCTION FEATURES OF PUMP</b><br/>Mixed flow pumps with diffusers, impellers, brackets, suction case and discharge case completely made of stainless steel AISI 304 in order to provide maximum strength, durability, wear and tear resistance.<br/>The impellers are balanced and locked to the shaft with a specially shaped collet and nut coupling, in order to guarantee ease-to-assembly feature and avoid vibration sensitive malfunctions and noise increase during rotation.<br/>Rubber bearings that drive the shaft are water lubricated and have sand channels to make enable the sand particles leave the pump with the pumped liquid (maximum permissible sand content 50 gr/m3).<br/>Built-in non returned valve provided in order to minimize local friction losses.<br/>Stainless steel strainer provided in order to prevent particles over a certain size from entering the pump.<br/>Coupling with 6", 8" or 10" motor depending on the power requested by hydraulic part:<br/>- 6GF: 6" canned submersible motor<br/>- TR6: 6" rewindable submersible motor<br/>- TR8: 8" rewindable submersible motor<br/>- TR10: 10" rewindable submersible motor<br/>For inverter application refer to the detailed motor specification.</p> <p><b>ON REQUEST:</b><br/>- Pump body stainless steel AISI 316 for aggressive water application<br/>- Impellers stainless steel AISI 316<br/>- Motors in full stainless steel AISI 316 for aggressive water application<br/>- Star/Delta starting version<br/>- Special version of the motor for high temperature application<br/>- Non-standard power coupling</p> | 1     | Pr. op aanvr.  | Pr. op aanvr.    |
| 1.2                  | 0640000  | Motor: 6GF 30 kW 400/50 460/60 T DIR   | 1     | Pr. op aanvr.  | Pr. op aanvr.    |

**Totaal Pr. op aanvr.****Total Price Pr. op aanvr.**

|                    |                     |       |                          |                              |
|--------------------|---------------------|-------|--------------------------|------------------------------|
| MAIN_PROJECT_TITLE | BUSINESS_PROCESS_ID | OWNER | ISSUE_DATE<br>06/08/2022 | LAST_MODI_DATE<br>06/08/2022 |
|--------------------|---------------------|-------|--------------------------|------------------------------|

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085 - 487 46 04  
  
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**Pump model:** SS7A8  
**Hydraulic Part Code :** 60167435  
6GF 30 kW 400/50 460/60 T DIR  
**Motor Code :** 0640000  
Inverter application : Allowed - min. 30Hz

#### Pump data

P2 nominal requested : 30 kW  
Min. fluid temperature : 0 °C  
Max. fluid temperature : 30 °C  
Max. Permitted amount of sand : 50 g/m3

#### Requested data

Flow :  
Head :  
Fluid : Water  
Fluid Temperature : 20 °C  
Density: 998,3 kg/m<sup>3</sup>  
Kinematische viscositeit: 1,005 mm<sup>2</sup>/s  
Dampspanning: 0,00234 MPa

#### Hydraulic data (duty piont)

Flow :  
Head :  
Efficiency :  
NPSH :  
P2 nominal requested :

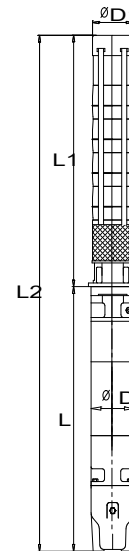
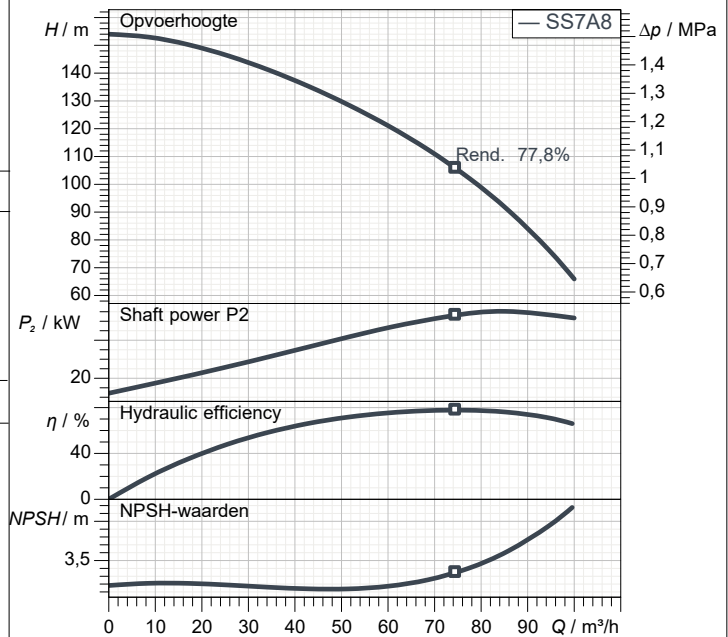
#### Materials

Impeller: Stainless Steel AISI 304 L  
Suction case: Stainless Steel AISI 304 L  
Pump shaft: AISI 420  
Filter: Stainless Steel AISI 304 L  
Tie rod: Stainless Steel AISI 304 L  
Non-return valve: Stainless Steel AISI 304  
Diffuser: Stainless Steel AISI 304 L

#### Motor data

Merk : TESLA  
Nominal power P2: 30 kW  
Rated voltage : 3~ 400 V 50 Hz  
Nominal current : 61,5 A  
Number of poles : 2  
Rated speed: 2.830 1/min  
Degree of protection : IP 68

### Curve tolerance according to ISO 9906



**Gewicht:** 143 kg

#### Dimension mm

|    |       |
|----|-------|
| D  | 141   |
| D1 | 172   |
| L  | 1.051 |
| L1 | 1.467 |
| L2 | 2.518 |

#### Pump connection

Discharge side 5" G

### Receiver

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### Motor Code :

0640000

### Motor :

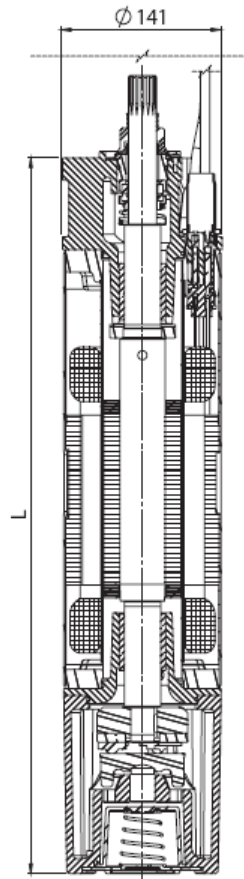
6GF 30 kW 400/50 460/60 T DIR

### Materials

|                                  |                            |
|----------------------------------|----------------------------|
| Internal sleeve and outer casing | Stainless Steel AISI 304 L |
| Shaft extension                  | Stainless Steel AISI 316   |
| Upper support                    | Painted cast iron          |
| Mechanical seal                  | Carbon/Ceramic             |
| Gasket                           | NBR                        |
| Lower support                    | Painted cast iron          |
| Lower cover                      | Stainless Steel AISI 304   |
| Bellow seal                      | EPDM                       |
| Thrust bearings                  | Stainless steel-Graphite   |
| Valve                            | Brass                      |
| Cable                            | EPDM                       |
| Connector plug                   | Stainless Steel AISI 316   |
| Sand guard (fixed-mobile)        | NBR                        |
| Screws                           | Stainless Steel AISI 304   |
| Coolant                          | Antifreeze+Water           |

### Motor data

|                        |                      |
|------------------------|----------------------|
| Merk :                 | TESLA                |
| Nominal power P2:      | 30 kW                |
| Rated voltage :        | 3~ 400 V 50 Hz       |
| Nominal current :      | 61,5 A               |
| Number of poles :      | 2                    |
| Rated speed:           | 2.830 1/min          |
| Degree of protection : | IP 68                |
| Inverter application : | Allowed - min. 30Hz  |
| Power factor :         | 0,85                 |
| Efficiency :           | 85 %                 |
| Cable section Ø mm² :  | 4x8                  |
| Cable length m :       | 4                    |
| Cooling flow :         | min. 0,3 m/s at 35°C |



**Gewicht:** 88,5 kg

**Dimension** mm

|    |       |
|----|-------|
| D  | 141   |
| D1 | 172   |
| L  | 1.051 |
| L1 | 1.467 |
| L2 | 2.518 |



## DERATING

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Motor Code : 0640000

6GF 30 kW 400/50 460/60 T DIR

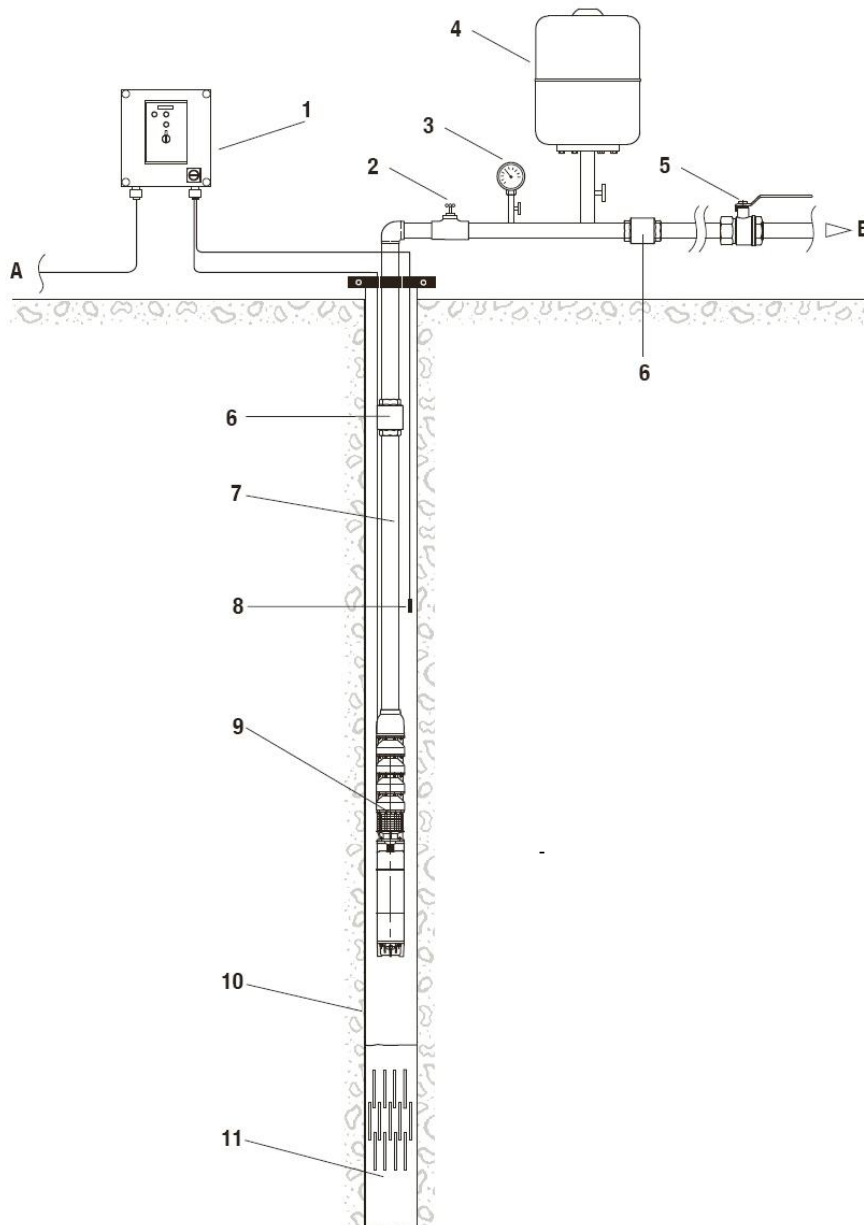
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Installation example without inverter







# PERFORMANCE CURVES

06/08/2022

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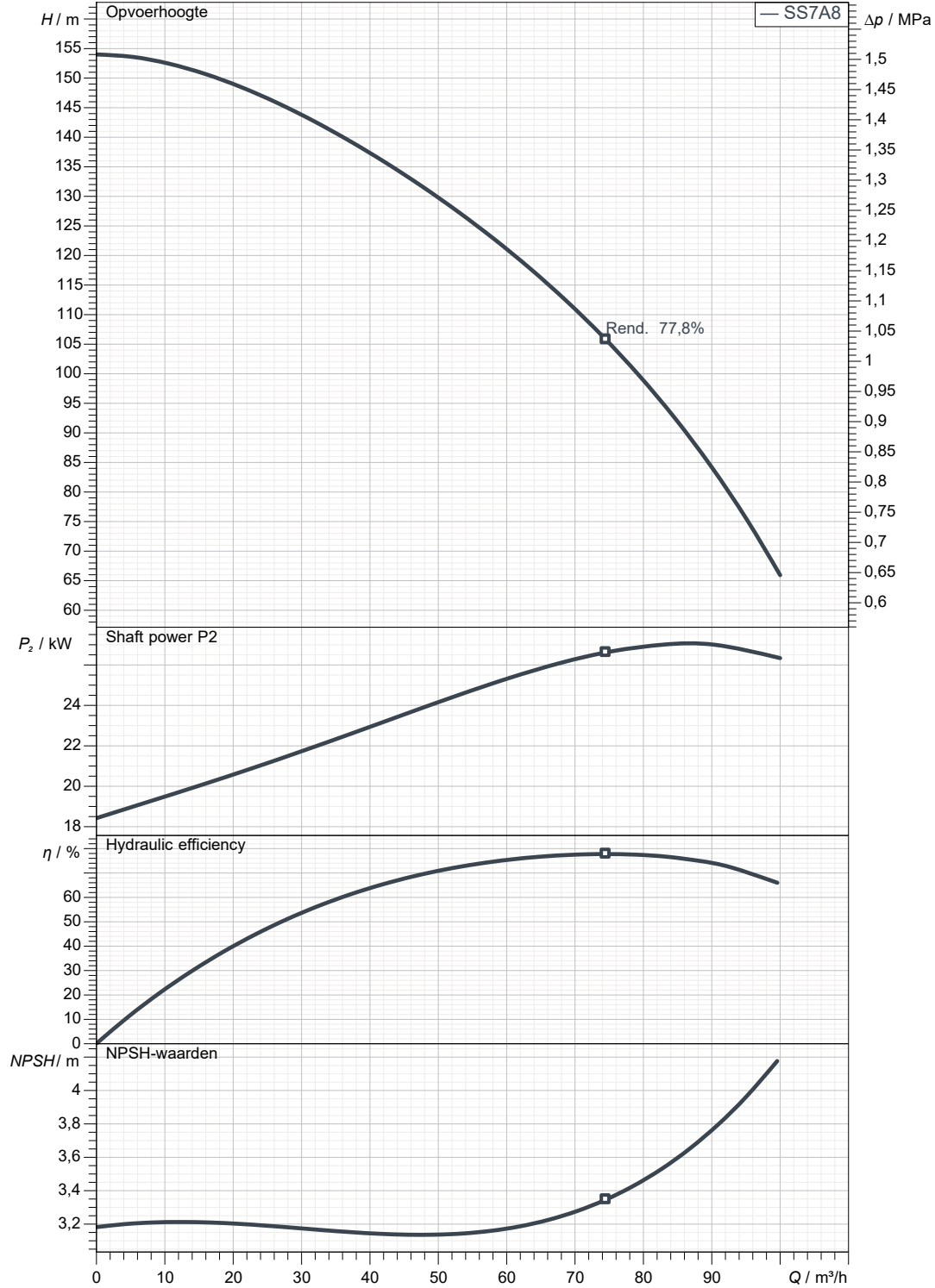
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SS7A8

Curve tolerance according to ISO 9906



Hydraulic data (duty point)

|                        |                     |        |                             |
|------------------------|---------------------|--------|-----------------------------|
| Discharge side<br>5" G | Flow :              | Head : | Rated speed:<br>2.830 1/min |
| MAIN_PROJECT_TITLE     | BUSINESS_PROCESS_ID | OWNER_ | ISSUE_DATE<br>06/08/2022    |



# DIMENSIONAL DRAWING

06/08/2022

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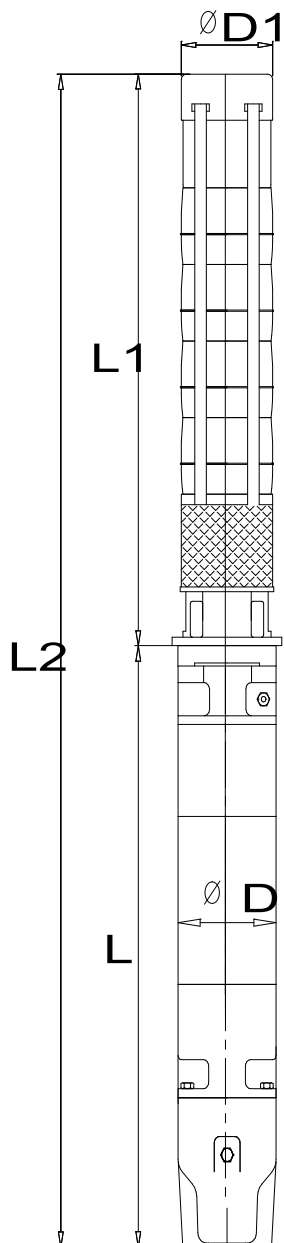
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SS7A8



Dimensions in mm

Pump connection

|    |    |       |  |  |  |  |           |
|----|----|-------|--|--|--|--|-----------|
| 1  | D  | 141   |  |  |  |  |           |
| 2  | D1 | 172   |  |  |  |  | Suction   |
| 3  | L  | 1.051 |  |  |  |  |           |
| 4  | L1 | 1.467 |  |  |  |  |           |
| 5  | L2 | 2.518 |  |  |  |  |           |
| 6  |    |       |  |  |  |  |           |
| 7  |    |       |  |  |  |  | Discharge |
| 8  |    |       |  |  |  |  | 5" G      |
| 9  |    |       |  |  |  |  | --        |
| 10 |    |       |  |  |  |  |           |
| 11 |    |       |  |  |  |  |           |
| 12 |    |       |  |  |  |  |           |

MAIN\_PROJECT\_TITLE

BUSINESS\_PROCESS\_ID

OWNER

ISSUE\_DATE

06/08/2022