

|                 |       |                  |       |           |       |
|-----------------|-------|------------------|-------|-----------|-------|
| PROJECT:        | _____ | UNIT TAG:        | _____ | QUANTITY: | _____ |
| REPRESENTATIVE: | _____ | TYPE OF SERVICE: | _____ | DATE:     | _____ |
| ENGINEER:       | _____ | SUBMITTED BY:    | _____ | DATE:     | _____ |
| CONTRACTOR:     | _____ | APPROVED BY:     | _____ | DATE:     | _____ |
|                 |       | ORDER NO.:       | _____ | DATE:     | _____ |

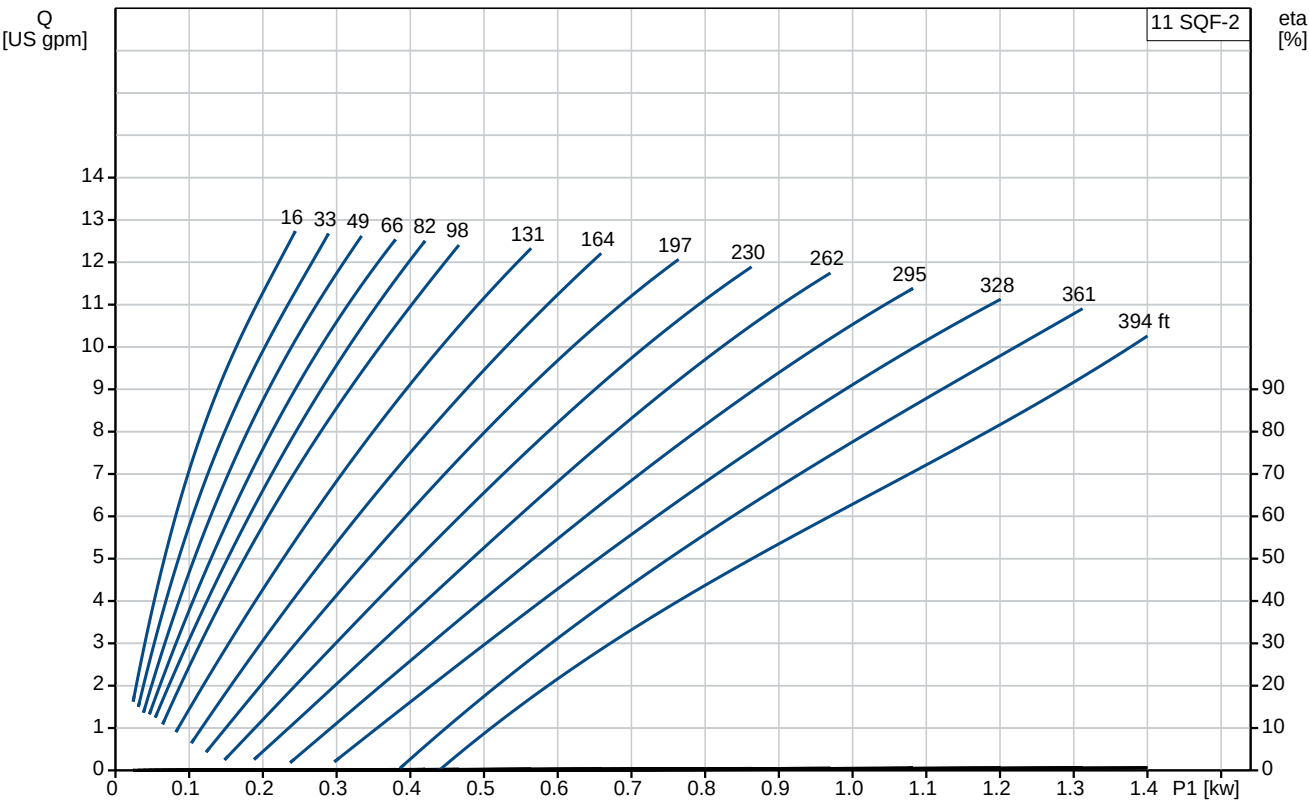


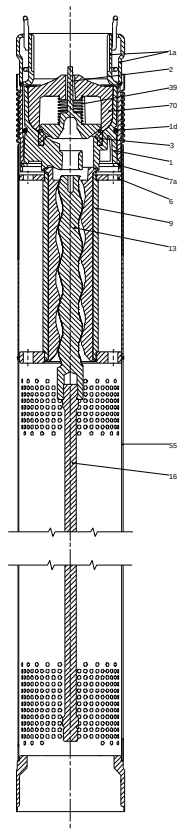
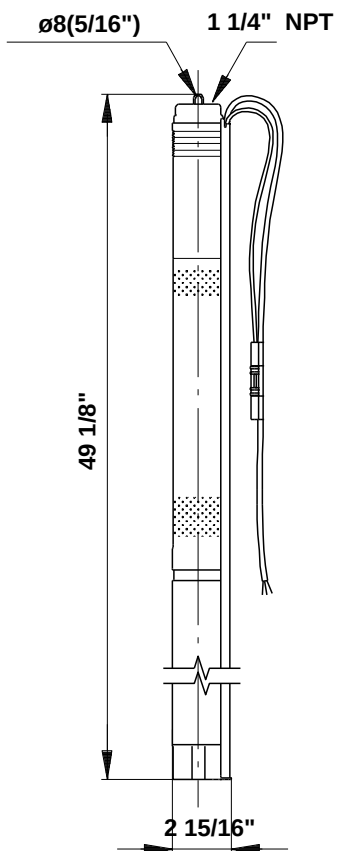
11 SQF-2

Renewable energy submersible pumps with built in inverter for solar, wind and AC powersource. Runs on both AC and DC voltage

Product photo could vary from the actual product

| Conditions of Service   | Pump Data                   | Motor Data                   |
|-------------------------|-----------------------------|------------------------------|
| Flow: _____             | Approvals motor: CE,RCM,EAC | Enclosure class: IP68        |
| Head: _____             | Product number: 95027335    | Insulation class: F          |
| Efficiency: _____       |                             | Motor protection: Y          |
| Liquid: Water           |                             | Thermal protection: internal |
| Temperature: 68 °F      |                             | Motor type: MSF3             |
| NPSH required: ft       |                             |                              |
| Viscosity: _____        |                             |                              |
| Specific Gravity: 1.000 |                             |                              |





**Materials:**

- Pump: Stainless steel  
DIN W.-Nr. 1.4301  
AISI 304
- Impeller: DIN W.-Nr. 1.4301
- Rotor: Stainless steel  
DIN W.-Nr. 1.4301  
AISI 304
- Stator: Stainless steel / EPDM  
DIN W.-Nr. 1.4301  
AISI 304

## Tender Text



Product photo could vary from the actual product

Product No.: [95027335](#)

### 11 SQF-2

The 3" SQFlex pump with helical rotor is for high heads and low flow rates.

The SQFlex system is a reliable water supply system based on renewable energy sources, such as solar and wind energy.

Thanks to its flexible energy supply and performance, the SQFlex system can be combined and adapted to meet any need on the installation site.

The SQFlex system has a wide voltage range, built-in maximum power point tracking (MPPT) as well as dry-running, voltage and overload protection.

#### Liquid:

Pumped liquid: Water  
Maximum liquid temperature: 104 °F  
Liquid temperature during operation: 68 °F  
Density: 62.29 lb/ft<sup>3</sup>

#### Technical:

Approvals on motor nameplate: CE,RCM,EAC

#### Materials:

Pump: Stainless steel  
DIN W.-Nr. 1.4301  
AISI 304  
Impeller: DIN W.-Nr. 1.4301

#### Installation:

Maximum ambient pressure: 218 psi  
Pump outlet: 1 1/4 NPT"  
Minimum borehole diameter: 2.99 in

#### Electrical data:

Motor type: MSF3  
Power input - P1: 1.4 kW  
Rated voltage AC: 1 x 90-240 V  
Rated voltage DC: 30-300 V  
Rated current: 8.4 A  
Power factor: 1,0  
Rated speed: 500-3600 rpm  
Start. method: direct-on-line  
Enclosure class (IEC 34-5): IP68



Company name:

Created by:

Phone:

Date:

2/22/2018

Insulation class (IEC 85): F  
Length of cable: 6.562 ft  
Udc: 300 V  
30 V

**Others:**

Minimum efficiency index, MEI  $\geq$ : --  
Net weight: 18.1 lb  
Gross weight: 22.1 lb  
Shipping volume: 0.85 ft<sup>3</sup>

| Position | Count | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | 1     | <p><b>11 SQF-2</b></p>  <p>Product photo could vary from the actual product</p> <p>Product No.: <a href="#">95027335</a></p> <p>The 3" SQFlex pump with helical rotor is for high heads and low flow rates.</p> <p>The SQFlex system is a reliable water supply system based on renewable energy sources, such as solar and wind energy.</p> <p>Thanks to its flexible energy supply and performance, the SQFlex system can be combined and adapted to meet any need on the installation site.</p> <p>The SQFlex system has a wide voltage range, built-in maximum power point tracking (MPPT) as well as dry-running, voltage and overload protection.</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Maximum liquid temperature: 104 °F</p> <p>Liquid temperature during operation: 68 °F</p> <p>Density: 62.29 lb/ft<sup>3</sup></p> <p><b>Technical:</b></p> <p>Approvals on motor nameplate: CE,RCM,EAC</p> <p><b>Materials:</b></p> <p>Pump: Stainless steel<br/>DIN W.-Nr. 1.4301<br/>AISI 304</p> <p>Impeller: DIN W.-Nr. 1.4301</p> <p><b>Installation:</b></p> <p>Maximum ambient pressure: 218 psi</p> <p>Pump outlet: 1 1/4 NPT"</p> <p>Minimum borehole diameter: 2.99 in</p> <p><b>Electrical data:</b></p> <p>Motor type: MSF3</p> <p>Power input - P1: 1.4 kW</p> <p>Rated voltage AC: 1 x 90-240 V</p> <p>Rated voltage DC: 30-300 V</p> <p>Rated current: 8.4 A</p> <p>Power factor: 1,0</p> <p>Rated speed: 500-3600 rpm</p> <p>Start. method: direct-on-line</p> <p>Enclosure class (IEC 34-5): IP68</p> <p>Insulation class (IEC 85): F</p> <p>Length of cable: 6.562 ft</p> |



Company name:

Created by:

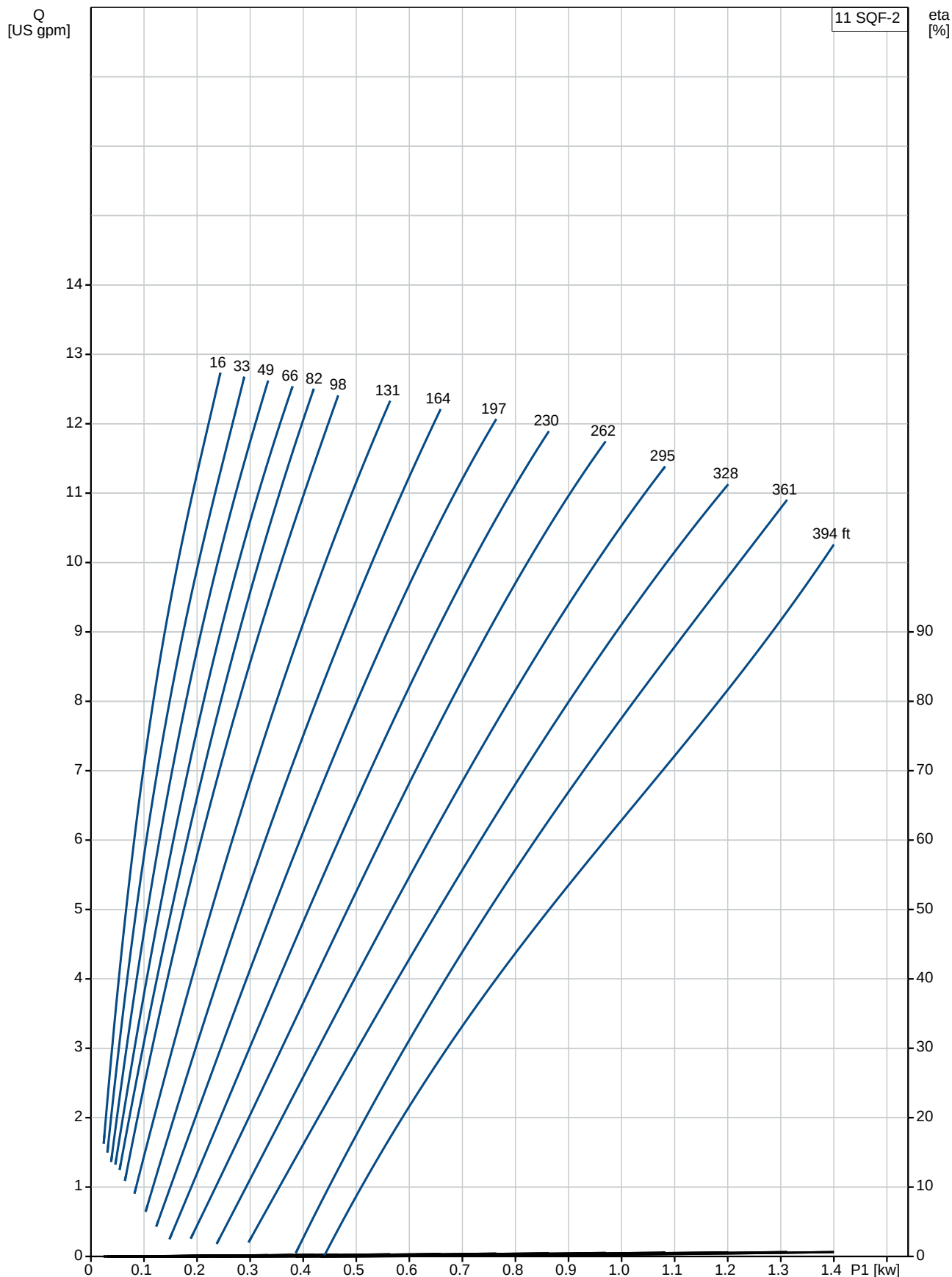
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Date:

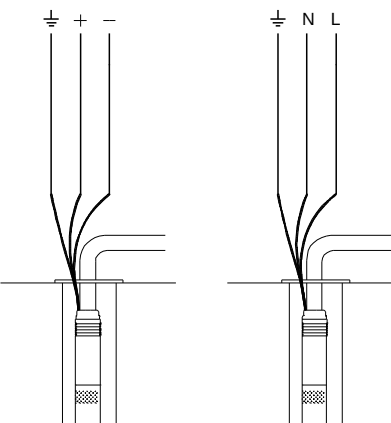
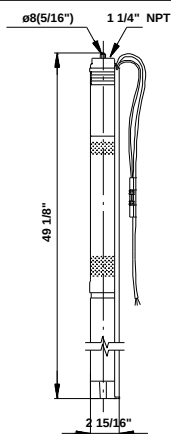
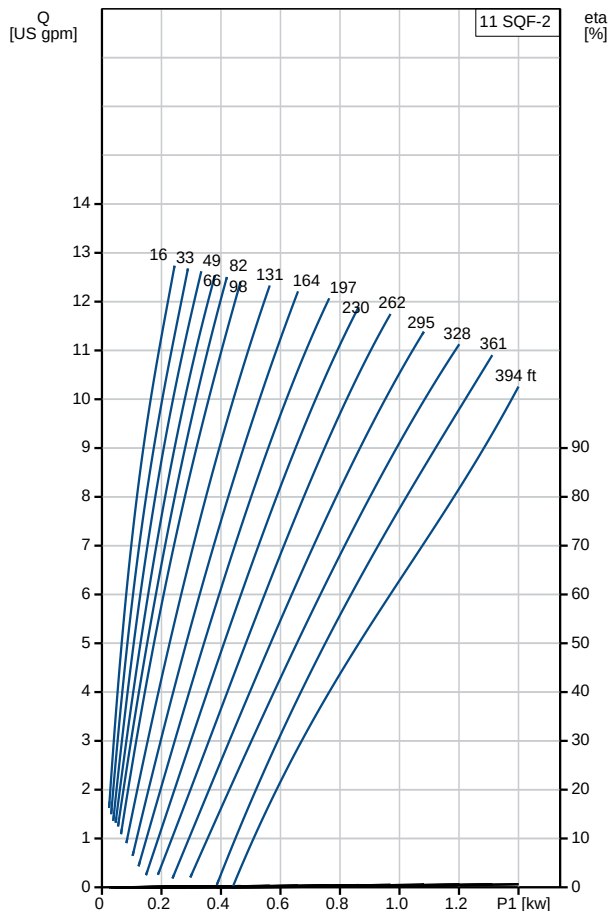
2/22/2018

| Position | Count | Description                                                                                                                                       |
|----------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|          |       | Udc: 300 V<br>30 V                                                                                                                                |
|          |       | <b>Others:</b><br>Minimum efficiency index, MEI ≥: --.--<br>Net weight: 18.1 lb<br>Gross weight: 22.1 lb<br>Shipping volume: 0.85 ft <sup>3</sup> |

## 95027335 11 SQF-2 50 Hz

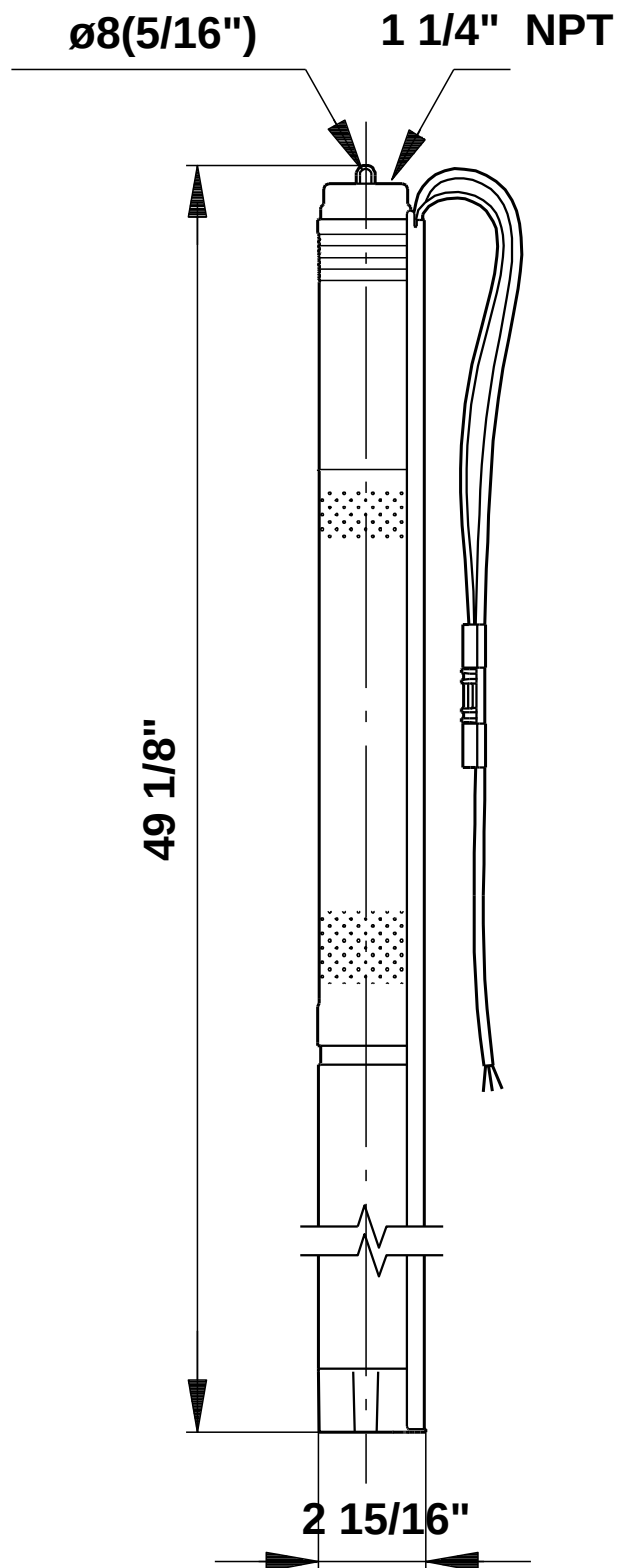


| Description                          | Value                                                   |
|--------------------------------------|---------------------------------------------------------|
| <b>General information:</b>          |                                                         |
| Product name:                        | 11 SQF-2                                                |
| Product No.:                         | 95027335                                                |
| EAN:                                 | 5700834791802                                           |
| <b>Technical:</b>                    |                                                         |
| Stages:                              | 2                                                       |
| Approvals on motor nameplate:        | CE,RCM,EAC                                              |
| Pump Number:                         | 95027416                                                |
| Valve:                               | pump with built-in non-return valve                     |
| <b>Materials:</b>                    |                                                         |
| Pump:                                | Stainless steel<br>DIN W.-Nr. 1.4301<br>AISI 304        |
| Impeller:                            | DIN W.-Nr. 1.4301                                       |
| Rotor:                               | Stainless steel<br>DIN W.-Nr. 1.4301<br>AISI 304        |
| Stator:                              | Stainless steel / EPDM<br>DIN W.-Nr. 1.4301<br>AISI 304 |
| <b>Installation:</b>                 |                                                         |
| Maximum ambient pressure:            | 218 psi                                                 |
| Pump outlet:                         | 1 1/4 NPT"                                              |
| Minimum borehole diameter:           | 2.99 in                                                 |
| <b>Liquid:</b>                       |                                                         |
| Pumped liquid:                       | Water                                                   |
| Maximum liquid temperature:          | 104 °F                                                  |
| Liquid temperature during operation: | 68 °F                                                   |
| Density:                             | 62.29 lb/ft³                                            |
| <b>Electrical data:</b>              |                                                         |
| Motor type:                          | MSF3                                                    |
| Power input - P1:                    | 1.4 kW                                                  |
| Rated voltage AC:                    | 1 x 90-240 V                                            |
| Rated voltage DC:                    | 30-300 V                                                |
| Rated current:                       | 8.4 A                                                   |
| Power factor:                        | 1,0                                                     |
| Rated speed:                         | 500-3600 rpm                                            |
| Start. method:                       | direct-on-line                                          |
| Enclosure class (IEC 34-5):          | IP68                                                    |
| Insulation class (IEC 85):           | F                                                       |
| Motor protection:                    | Y                                                       |
| Thermal protec:                      | internal                                                |
| Length of cable:                     | 6.562 ft                                                |
| Motor Number:                        | 98163731                                                |
| Udc:                                 | 300 V<br>30 V                                           |
| <b>Others:</b>                       |                                                         |
| Minimum efficiency index, MEI ≥:     | ---                                                     |
| Net weight:                          | 18.1 lb                                                 |
| Gross weight:                        | 22.1 lb                                                 |
| Shipping volume:                     | 0.85 ft³                                                |
| Sales region:                        | North America                                           |



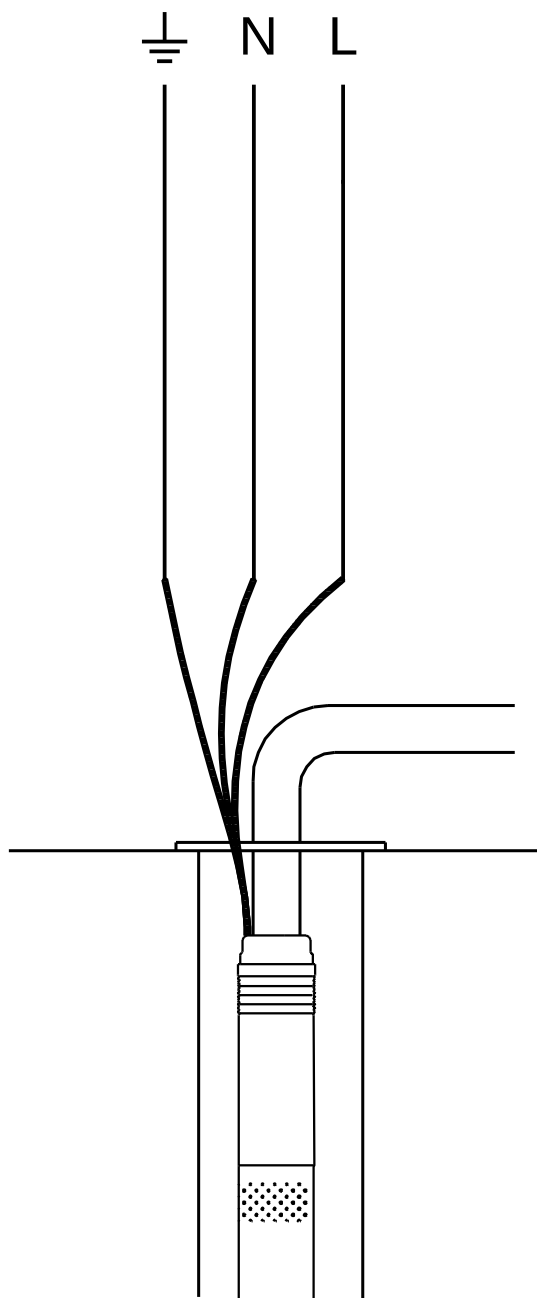
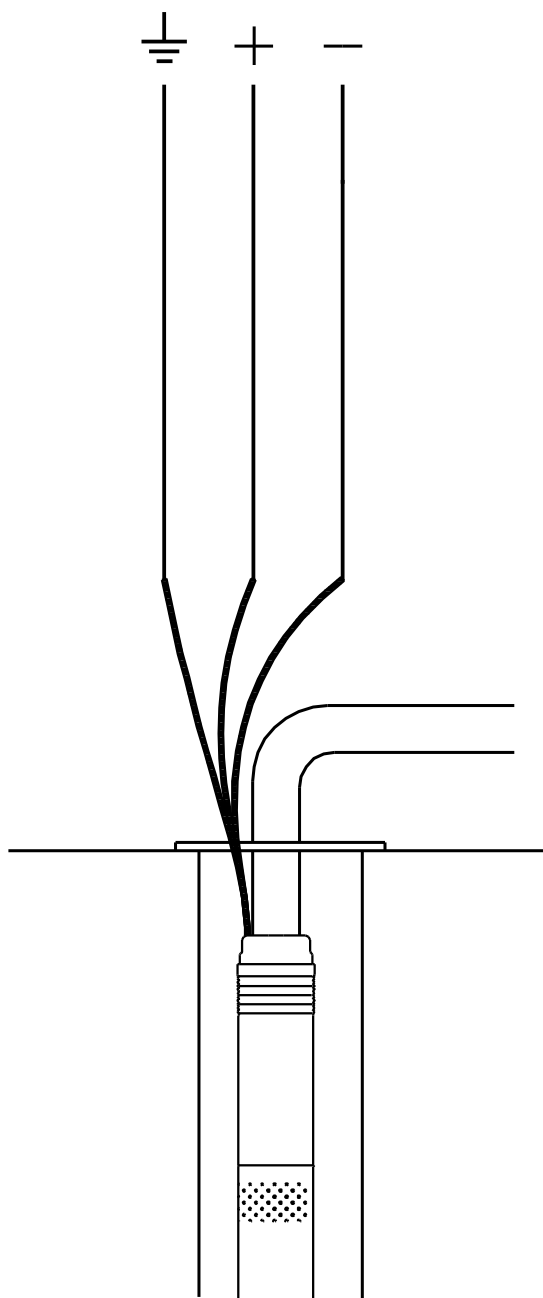


## 95027335 11 SQF-2 50 Hz



Note! All units are in [mm] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.

**95027335 11 SQF-2 50 Hz**





Company name:

Created by:

Phone:

Date:

2/22/2018

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**Order Data:**

Product name: 11 SQF-2

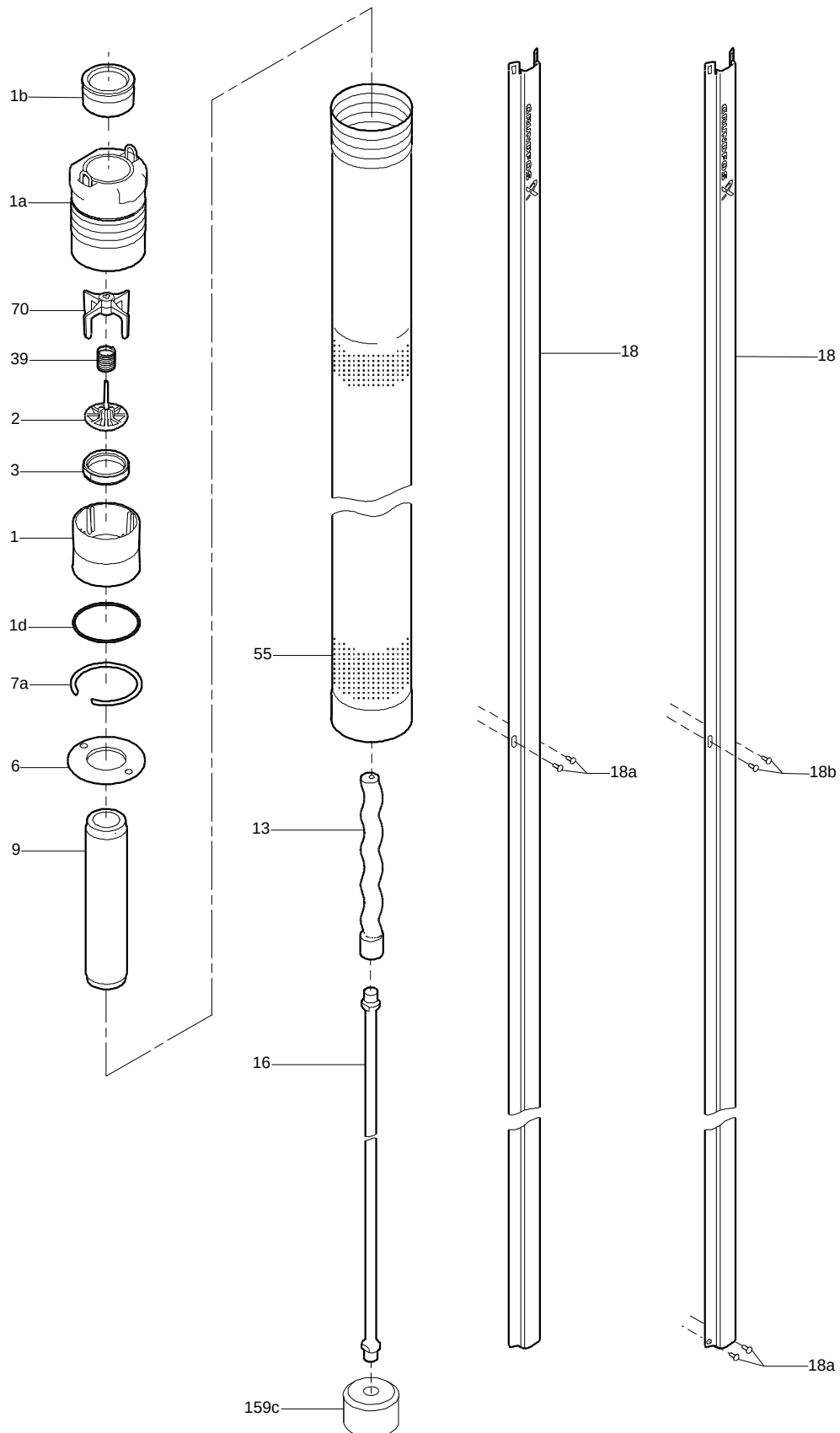
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Product No.: 95027335

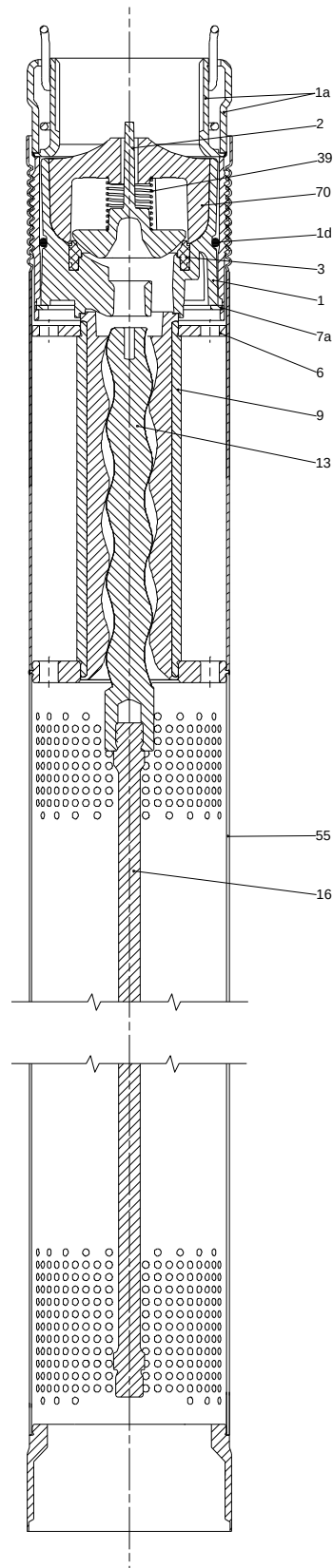
Total: Price on request

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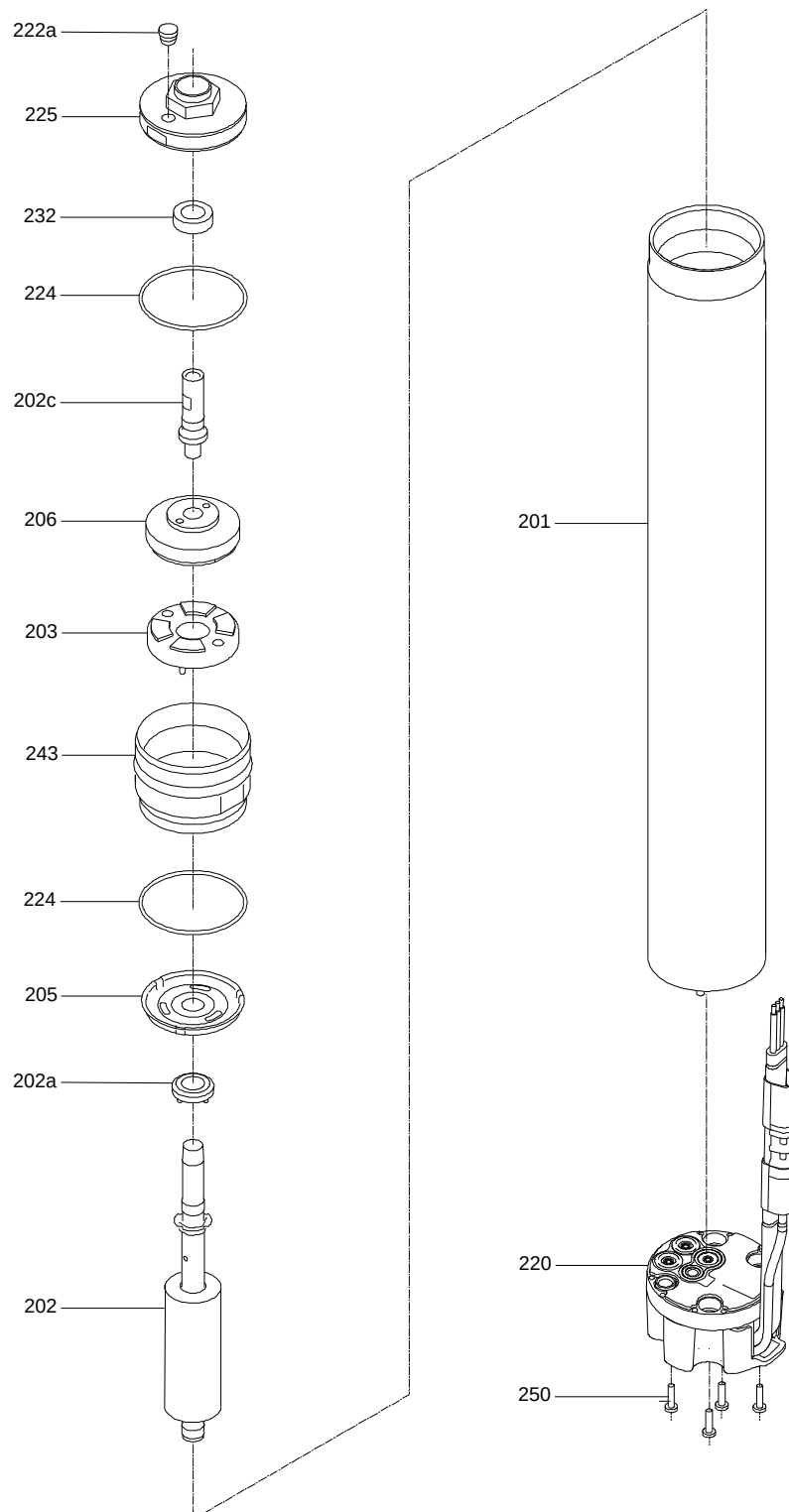
## Exploded view ( TM043306)



## Sectional drawing (tm022213 3901)



## Exploded view ( TM043307)



**Service parts 11 SQF-2, Prod number 95027335**

**Valid from 2.7.2012 (1227)**

| Position | Description                    | Annotation | Classification data                                | Part No. | Count | Unit |
|----------|--------------------------------|------------|----------------------------------------------------|----------|-------|------|
| -        | Pump w/o motor                 |            |                                                    |          | 1     | pcs  |
| -        | Kit, cable guard               |            |                                                    | 95048658 | 1     |      |
| 18a      | Pan head tapping screw         |            |                                                    |          |       |      |
| 18       | Cable guard                    |            |                                                    |          |       |      |
| -        | Kit, hydraulic parts           |            |                                                    | 96477058 | 1     |      |
| 6        | Flange                         |            |                                                    |          |       |      |
| 9        | Stator                         |            |                                                    |          |       |      |
| 13       | Pump rotor                     |            |                                                    |          |       |      |
| -        | Kit, non-return valve          |            |                                                    | 96477052 | 1     |      |
| -        | Valve flap cpl.                |            |                                                    |          |       |      |
| 2        | Valve cup                      |            |                                                    |          |       |      |
| 39       | Compression spring             |            |                                                    |          |       |      |
| -        | Valve casing                   |            |                                                    |          |       |      |
| 1d       | O-ring                         |            |                                                    |          |       |      |
| 1        | Valve casing                   |            |                                                    |          |       |      |
| 3        | Valve seat                     |            |                                                    |          |       |      |
| 7a       | Retaining ring                 |            |                                                    |          |       |      |
| 70       | Valve guide                    |            |                                                    |          |       |      |
| -        | Kit, sand slinger              |            |                                                    | 96773222 | 1     |      |
|          | Sand slinger                   |            |                                                    |          |       |      |
| -        | Kit, screws                    |            |                                                    | 96037388 | 1     |      |
| 18a      | Pan head tapping screw         |            |                                                    |          |       |      |
| 18a      | Pan head screw                 |            |                                                    |          |       |      |
| 18a      | Screw                          |            | Length: 10<br>Thread: K35                          |          |       |      |
| 250      | Nut                            |            |                                                    |          |       |      |
| -        | Kit, sleeve                    |            |                                                    | 96915658 | 1     |      |
| 55       | Pump sleeve                    |            |                                                    |          |       |      |
| -        | Kit, torsion shaft             |            |                                                    | 96477060 | 1     |      |
| 16       | Shaft                          |            |                                                    |          |       |      |
| -        | Motor                          |            |                                                    |          | 1     | pcs  |
| -        | Kit, bearing                   |            |                                                    | 96773223 | 1     |      |
|          | Shaft                          |            |                                                    |          |       |      |
| 202a     | Stop ring                      |            |                                                    |          |       |      |
| 203      | Thrust bearing part stationary |            |                                                    |          |       |      |
| 205      | Radial bearing, upper          |            |                                                    |          |       |      |
| 206      | Thrust bearing part, rotating  |            |                                                    |          |       |      |
| 222a     | Filling plug                   |            |                                                    |          |       |      |
| 232      | Lip seal ring                  |            |                                                    |          |       |      |
| -        | Kit, cable                     |            |                                                    | 97778359 | 1     |      |
| 220      | Power Supply                   |            |                                                    |          |       |      |
| -        | Kit, rotor                     |            |                                                    | 96773228 | 1     |      |
| 202      | Shaft w/rotor                  |            |                                                    |          |       |      |
| -        | Kit, thrust bearing            |            |                                                    | 96773224 | 1     |      |
| 224      | O-ring                         |            | Diameter: 58<br>Material type: NBR<br>Thickness: 2 |          |       |      |
| 243      | Thrust bearing housing         |            |                                                    |          |       |      |
| -        | Kit, top cover                 |            |                                                    | 96773227 | 1     |      |
| 222a     | Filling plug                   |            |                                                    |          |       |      |
| 224      | O-ring                         |            | Diameter: 58<br>Material type: NBR<br>Thickness: 2 |          |       |      |



Company name:

Created by:

Phone:

Date: 2/22/2018

| Position | Description   | Annotation | Classification data | Part No. | Count | Unit |
|----------|---------------|------------|---------------------|----------|-------|------|
| 225      | Top cover     |            |                     |          |       |      |
| 232      | Lip seal ring |            |                     |          |       |      |