

# 1SCD9/09/5 C L05

|                       |                       |  |
|-----------------------|-----------------------|--|
| <b>Technical data</b> | <b>Company name</b>   |  |
|                       | <b>Contact</b>        |  |
|                       | <b>Phone number</b>   |  |
|                       | <b>e-mail address</b> |  |

| Operating data |                           |                  |                           |             |
|----------------|---------------------------|------------------|---------------------------|-------------|
| 1              | Pumpe type                | Single head pump | Fluid                     | Water, pure |
| 2              | No. of pumps              | 1                | Operating temperature t A | °C 4        |
| 3              | Nominal flow              | m³/h 0           | pH-value at t A           | 7           |
| 4              | Nominal head              | m 0              | Density at t A            | kg/m³ 1000  |
| 5              | Static head               | m 0              | Kin. viscosity at t A     | mm²/s 1.569 |
| 6              | Inlet pressure            | kPa 0            | Vapor pressure at t A     | kPa 100     |
| 7              | Environmental temperature | °C 20            | Solids                    | 0           |
| 8              | Available system NPSH     | m 0              | Altitude                  | m 0         |

| Pump data |                       |                       |             |               |
|-----------|-----------------------|-----------------------|-------------|---------------|
| 9         | Design                | Borehole pumps        |             |               |
| 10        | Execution             |                       | Impeller Ø  | Max. mm 0     |
| 11        | Operating speed       | rpm 2900              | designed    | mm            |
| 12        | Number of stages      | 9                     | Min.        | mm 0          |
| 13        | Suction nozzle        | protected by strainer | Nominal     | m³/h ( )      |
| 14        | Discharge nozzle      | /                     | Flow        | Max- m³/h 2.4 |
| 15        | Max. casing pressure  | kPa                   | Min-        | m³/h .7       |
| 16        | Max. working pressure | kPa 892.4             | Head        | Nominal m     |
| 17        | Impeller type         |                       | at Qmax     | m 38.1        |
| 18        | Head H(Q=0)           | m 91                  | at Qmin     | m 80.6        |
| 19        | Max. shaft power      | kW .9                 | Shaft power | kW ( )        |
| 20        | Total weight          | kg 17.5               | Efficiency  | %             |
| 21        |                       |                       | NPSH 3%     | m             |

| Materials |                          |                                 |                                   |   |
|-----------|--------------------------|---------------------------------|-----------------------------------|---|
| 22        |                          | Pump                            |                                   |   |
| 23        | Head                     | Stainless steel / ASTM A743 CF8 | Upper head                        | Technopolymer                           |
| 24        | Capacitor                | -                               | Upper bearing support             | Stainless steel / AISI 304              |
| 25        | Connection container     | PA66-GF25                       | Sleeve with wound stator          | Stainless steel / AISI 304              |
| 26        | Motor shaft              | Stainless steel / AISI 431      | Internal mech. seal (rotary part) | Carbographite                           |
| 27        | Lower bearing support    | Die-cast aluminium              | Internal mech. seal (fixed part)  | Steatite                                |
| 28        | Lower head               | Technopolymer                   | External mech. seal               | Silicon carbide / Silicon carbide / NBR |
| 29        | Final bowl               | Stainless steel / AISI 304      | Pump shaft                        | Stainless steel / AISI 431              |
| 30        | Diffuser                 | Stainless steel / AISI 304      | Pump body                         | Stainless steel / AISI 304              |
| 31        | Impeller                 | Technopolymer                   | Base                              | Aluminium                               |
| 32        | Elastomers               | Nitrile rubber (NBR)            | Sleeve                            | Stainless steel / AISI 304              |
| 33        | Capacitor housing spacer | PA66-GF25                       | PLUG                              | Stainless steel / AISI 304              |
| 34        |                          |                                 |                                   |   |
| 35        |                          |                                 |                                   |   |
| 36        |                          |                                 |                                   |   |
| 37        |                          |                                 |                                   |   |
| 38        |                          |                                 |                                   |   |
| 39        |                          |                                 |                                   |   |
| 40        |                          |                                 |                                   |   |
| 41        |                          |                                 |                                   |   |

| Motor data |                       |                         |                  | Cable               |                                 |
|------------|-----------------------|-------------------------|------------------|---------------------|---------------------------------|
| 42         | Manufacturer          | Type                    | MOT_1SC9/09/5    | Cable type          |                                 |
| 43         | Specific design       | Single phase pump motor |                  | Cable cross section | mm²                             |
| 44         | Rated power           | 0.9 kW                  | Phases           | 1                   | Environmental temperature °C 20 |
| 45         | Corrected motor power | 0.9 kW                  | No. starts / h   | max. 20             | cable length m                  |
| 46         | coolant speed         | min.                    | Weight           | 0 kg                |                                 |
| 47         | Rated current         | 5.68 A                  | Electric voltage | 230 V               |                                 |
| 48         | Reduced current       | 5.68 A                  | Starting mode    | Directly            |                                 |
| 49         | Degree of protection  | IP 68                   | Speed            | 2850 rpm            |                                 |
| 50         | motor connection      |                         | Installation     |                     |                                 |

| Remarks |  |  |  |  |
|---------|--|--|--|--|
|         |  |  |  |  |
|         |  |  |  |  |
|         |  |  |  |  |

|         |            |                             |                        |                         |
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| Project | Project ID | Created by<br>Joshua Harvey | Created on<br>04-07-21 | Last update<br>04-07-21 |
|---------|------------|-----------------------------|------------------------|-------------------------|

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## Performance curve

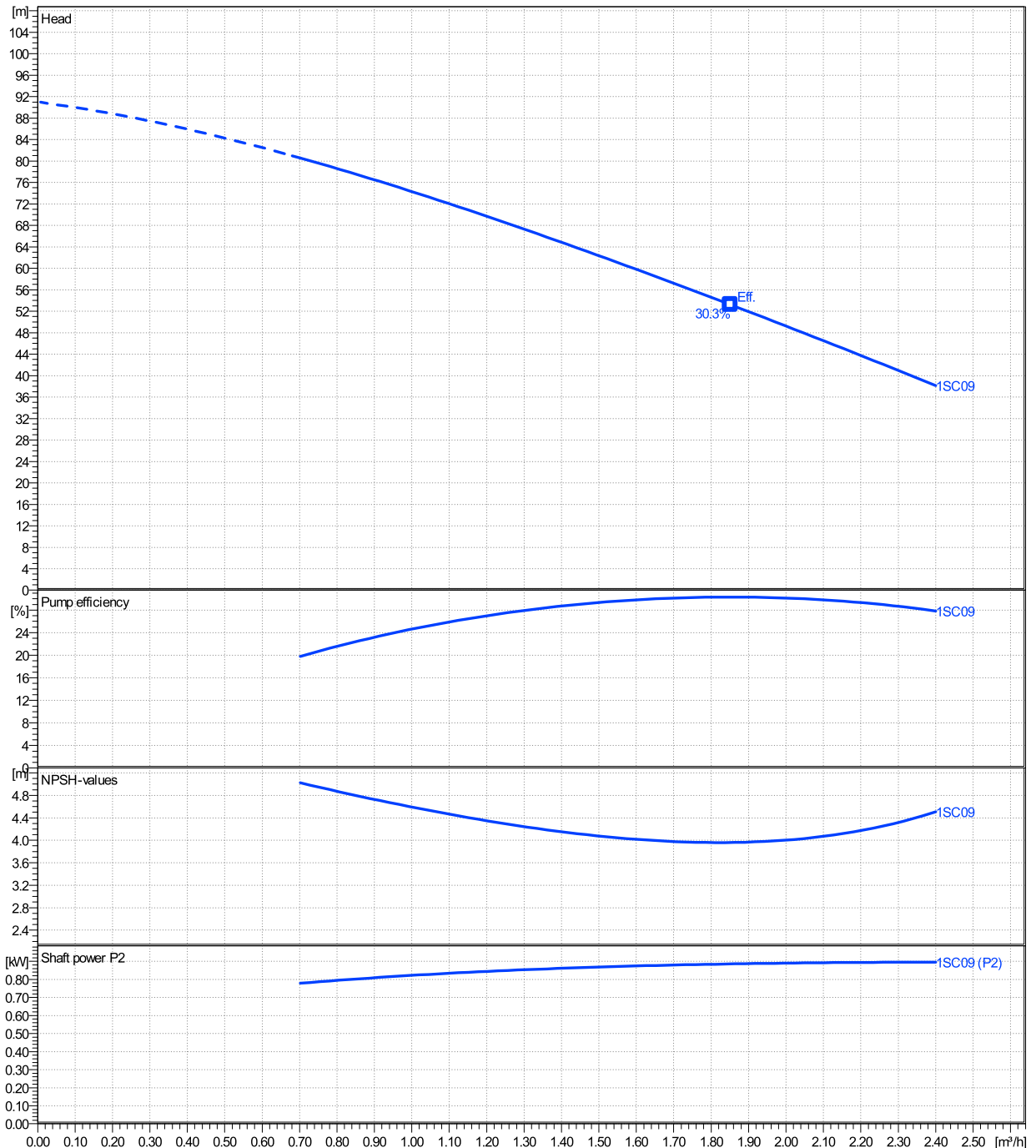
Company name  
Contact  
Phone number  
e-mail address

|        | Ø<br>mm | Pump capacity                   |              |                   | Pump head   |                | Shaft power P2 |            |                 | Frequency              |      | Hz | 50 |
|--------|---------|---------------------------------|--------------|-------------------|-------------|----------------|----------------|------------|-----------------|------------------------|------|----|----|
|        |         | Operating range<br>Min.<br>m³/h | Max.<br>m³/h | η<br>Max.<br>m³/h | H(Q=0)<br>m | η<br>Max.<br>m | P2(Q=0)<br>kW  | Max.<br>kW | η<br>Max.<br>kW | Operating speed<br>rpm | 2900 |    |    |
| actual | 0       | 0.702                           | 2.4          | 1.85              | 91          | 53.2           |                | 0.896      | 0.886           | Nominal flow           | m³/h | 0  |    |
| Min.   | 0       | /                               | /            | 1.85              | 91          | 53.2           |                | /          | 0.886           | Nominal head           | m    | 0  |    |
| Max.   | 0       | /                               | /            | 1.85              | 91          | 53.2           |                | /          | 0.886           | Inlet pressure         | kPa  | 0  |    |
|        |         |                                 |              |                   |             |                |                |            |                 | Static head            | m    | 0  |    |

**Power datas referred to:**

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s



|         |            |                             |                        |                         |
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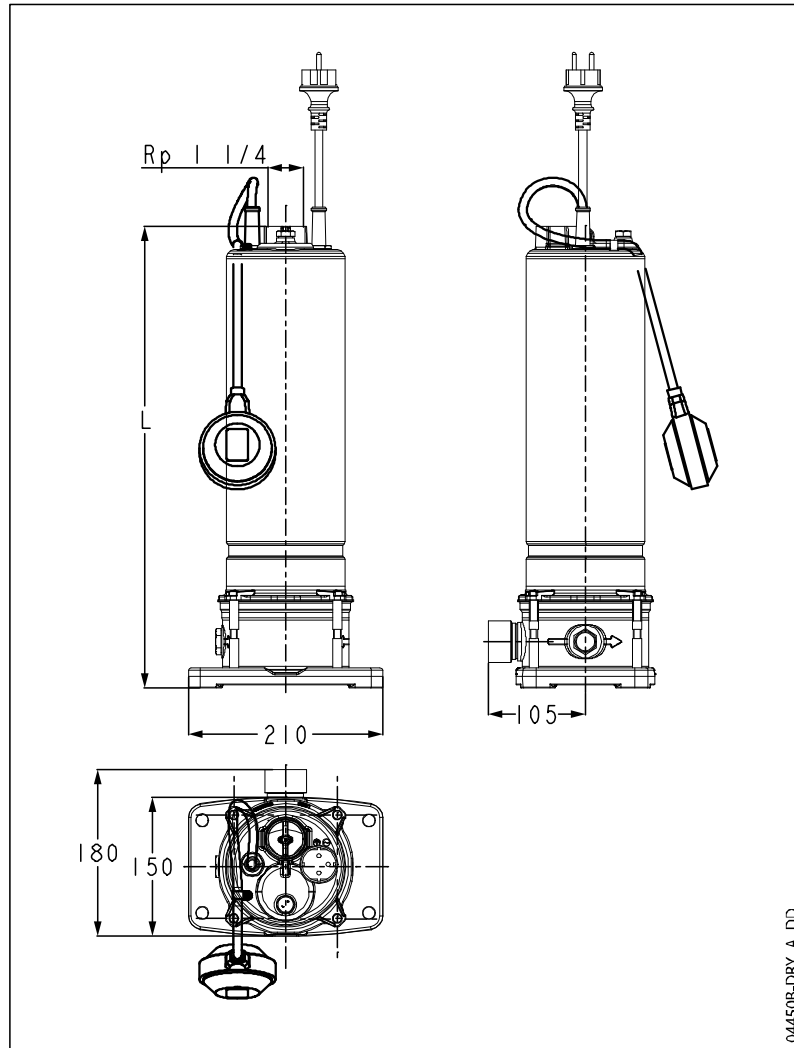
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**Dimensions**

Company name  
Contact  
Phone number  
e-mail address

Standard

Single phase pump motor  
MOT\_1SC9/09/5



| Dimensions [ mm ] |     |
|-------------------|-----|
| L                 | 618 |

| Weight (+/- 5%) [ kg ] |         |
|------------------------|---------|
| Pump                   | 16.5 kg |
| Cable                  |         |
| Motor                  |         |
| Total weight           |         |

| Connections                             |                  |
|---|------------------|
| Suction nozzle<br>protected by strainer | Discharge nozzle |

**Dimensions and weight without obligation**

|         |            |                             |                        |                         |
|---------|------------|-----------------------------|------------------------|-------------------------|
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