

## Data sheet

### Pump type

### Amaline C 3036-1160/126UDG

### Operating data

|                     |              |       |                           |                 |       |
|---------------------|--------------|-------|---------------------------|-----------------|-------|
| Flow                | 1.110,0      | m³/h  | Fluid                     |                 |       |
| Head                | 1,2          | m     | Density                   | 998             | kg/m³ |
| Operating speed     | 1182         | 1/min | Viscosity                 | 1               | mm²/s |
| Shaft power         | 6,4          | kW    | Temperature               | 20              | °C    |
| Efficiency          | 57,6         | %     | Hydraulic acceptance acc. | ANSI HI § 4.4.2 |       |
| Shut off head       | 4,7          | m     |                           |                 |       |
| Inlet chamber       | Open inlet c |       |                           |                 |       |
| Minimum water level |              | m     |                           |                 |       |
| Application range   | Head         | Flow  | Minimum water level       |                 |       |
| From                | 4,2          | m     | 237,8                     | m³/h            | ---   |
| To                  | 0,5          | m     | 1.325,2                   | m³/h            | m     |

### Design

|                  |                                             |  |                               |                |    |
|------------------|---------------------------------------------|--|-------------------------------|----------------|----|
| Design           | Submersible pump                            |  | Impeller type                 | Axial impeller |    |
| Make             | KSB                                         |  |                               | Open           |    |
| Series           | Amaline                                     |  |                               |                |    |
| Frame size       | 300                                         |  | Degree of propeller           | 21 °           |    |
| Stages           | 1                                           |  | Free passage                  |                | mm |
| Curve number     | K43307n                                     |  | Discharge column nominal size | 300            | mm |
| Type of bearings | Antifriction                                |  | Height of pump                |                | mm |
| Nos. of bearings | 1 / 1                                       |  | Weight                        | 175,5          | kg |
| Lubrication      | Grease lubrication, lubricated for lifetime |  |                               |                |    |

### Materials

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Motor casing           | Grey cast iron EN-GJL-250 (A 48 Class 35B)       |
| Motor casing cover     | Grey cast iron EN-GJL-250 (A 48 Class 35B)       |
| Casing cover           | Grey cast iron EN-GJL-250 (A 48 Class 35B)       |
| Gear casing            |                                                  |
| Taper piece            | Polyurethane                                     |
| Pump casing            | Stainless steel EN-1.4571 (A 276 Type 316 Ti)    |
| Motor shaft            | Stainless steel EN-1.4021+QT800 (A 276 Type 420) |
| Gear unit output shaft |                                                  |
| Propeller              | Stainless steel EN-1.4571 (A 276 Type 316 Ti)    |
| Bolts, nuts            | Stainless steel A4 (EN-1.4571) (A 276 Type 316)  |
| O-Rings                | Viton (FPM)                                      |

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### Shaft seal

Cable Entry  
Arrangement:  
Seal on medium side  
Mechanical seal, pump-side  
Mechanical seal, bearing-side

Double mechanical seal  
Tandem  
with elastomer bellows  
Silicon carbide / Silicon carbide  
Silicon carbide / Silicon carbide

### Monitoring

Thermal winding protection  
Explosion proof protection  
Motor housing monitoring  
Mechanical seal leakage detection  
Bearing temperature monitoring

By PTC thermistors  
By PTC (Explosion proof models only)  
By conductive moisture sensor electrode  
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### Coating

Preparatory treatment  
Blasting method  
Primer  
Dry film thickness primer  
Top coat  
Solids content  
Dry film thickness top coat  
Colour

Sa 2 1/2 to ISO 8501-1 / ISO 12 944-4 DIN 55928, Part 4  
Steel grit blasting  
Zinc phosphate or Zinc dust  
> 35 microns  
2-component epoxy resin  
> 82 %  
> 150 microns  
Ultramarine Blue (RAL 5002 to DIN 6174)

## Pump type

## Amaline C 3036-1160/126UDG

### Installation

#### INSTALLATION

Type of installation: Horizontal wet-well installation  
 Connection pipe: DC\_DN 300  
 Submergence, min.: 650 mm

Minimum water level t1 in appl. Range:

Connection to connection pipe:

Guide rail:

Guide rail lenght:

Lifting device:

square pipe 60x60

1 m (3 ft)

Shackle with lifting rope

Bolt-free, by claw on pump

#### Materials:

Connection pipe: Stainless steel EN-1.4571 (A 276 Type 316 Ti)

Guide rail: Stainless steel EN-1.4301 (A 276 Type 304)

Lifting rope: Stainless steel EN-1.4401 (A 276 Type 316)

Shackle: Stainless steel EN-1.4401 (A 276 Type 316)

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|---------------------|--------------|-------------------|---------------------------|-------------------|--------------------|
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| Head                | 1,2          | m                 | Density                   | 998               | kg/m <sup>3</sup>  |
| Operating speed     | 1182         | 1/min             | Viscosity                 | 1                 | mm <sup>2</sup> /s |
| Shaft power         | 6,4          | kW                | Temperature               | 20                | °C                 |
| Efficiency          | 57,6         | %                 | Hydraulic acceptance acc. | ANSI HI § 4.4.2   |                    |
| Shut off head       | 4,7          | m                 |                           |                   |                    |
| Inlet chamber       | Open inlet c |                   |                           |                   |                    |
| Minimum water level |              | m                 |                           |                   |                    |
| Application range   | Head         | Flow              | Minimum water level       |                   |                    |
| From                | 4,2          | m                 | 237,8                     | m <sup>3</sup> /h | ---                |
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|                  |                                             |  |                               |                |    |
|------------------|---------------------------------------------|--|-------------------------------|----------------|----|
| Design           | Submersible pump                            |  | Impeller type                 | Axial impeller |    |
| Make             | KSB                                         |  |                               | Open           |    |
| Series           | Amaline                                     |  |                               |                |    |
| Frame size       | 300                                         |  | Degree of propeller           | 21 °           |    |
| Stages           | 1                                           |  | Free passage                  |                | mm |
| Curve number     | K43307n                                     |  | Discharge column nominal size | 300            | mm |
| Type of bearings | Antifriction                                |  | Height of pump                |                | mm |
| Nos. of bearings | 1 / 1                                       |  | Weight                        | 175,5          | kg |
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### Materials

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| Gear casing            |                                                  |
| Taper piece            | Polyurethane                                     |
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| Motor shaft            | Stainless steel EN-1.4021+QT800 (A 276 Type 420) |
| Gear unit output shaft |                                                  |
| Propeller              | Stainless steel EN-1.4571 (A 276 Type 316 Ti)    |
| Bolts, nuts            | Stainless steel A4 (EN-1.4571) (A 276 Type 316)  |
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Guide rail lenght:

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#### Materials:

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Guide rail: Stainless steel EN-1.4301 (A 276 Type 304)

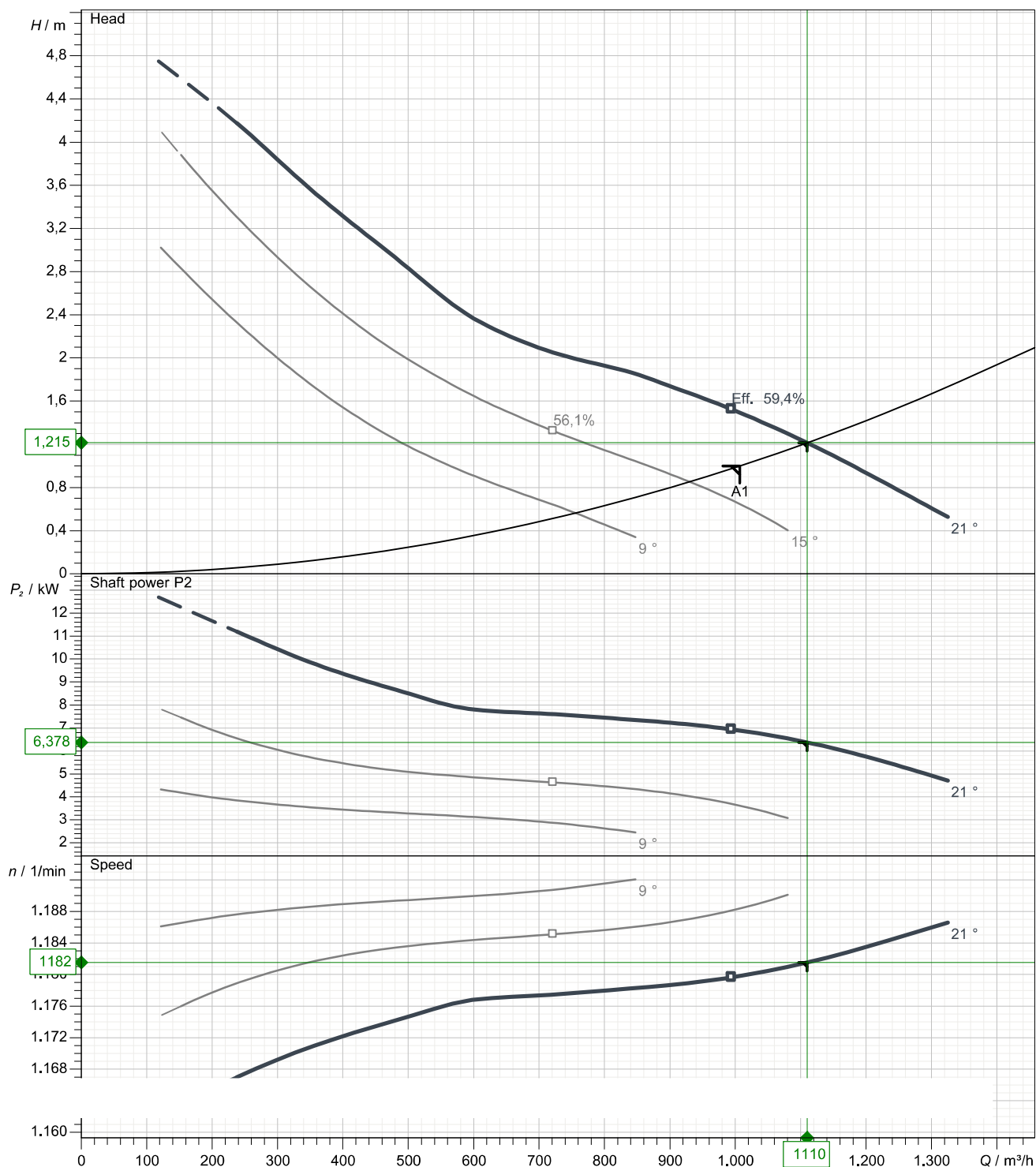
Lifting rope: Stainless steel EN-1.4401 (A 276 Type 316)

Shackle: Stainless steel EN-1.4401 (A 276 Type 316)

# Performance curve

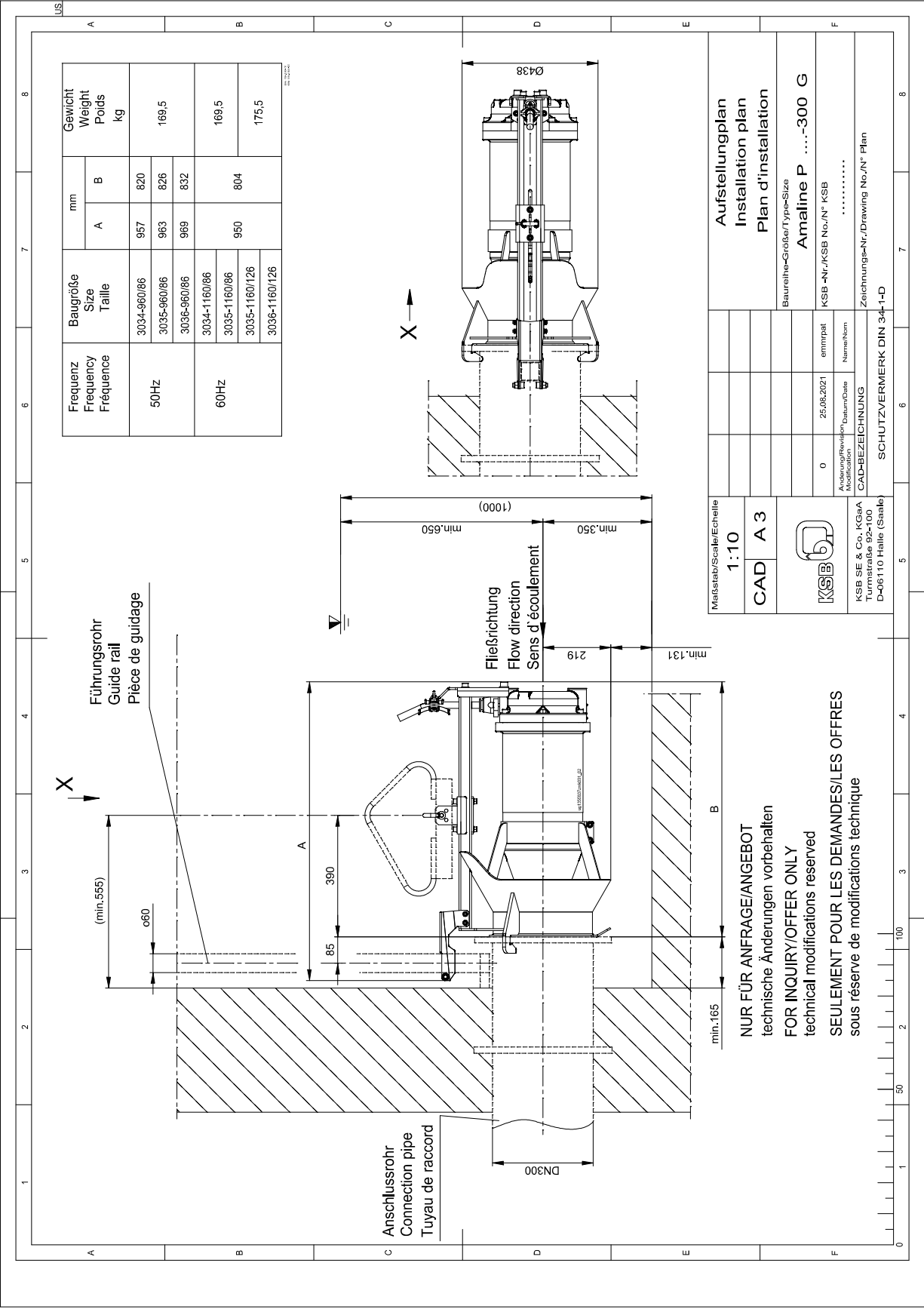
## Pump type

## Amaline C 3036-1160/126UDG



|               |                |           |             |              |               |
|---------------|----------------|-----------|-------------|--------------|---------------|
| Impeller type | Axial impeller | , Open    |             | Curve number | K43307n       |
| Free passage  | 80 mm          | Density   | 998,3 kg/m³ | Frequency    | 60 Hz         |
| Impeller size | 300 mm         | Viscosity | 1,005 mm²/s | Speed        | 1.181,5 1/min |

ANSI HI § 4.4.2





## Data sheet: motor data

### Motor type **126UDG**

|                      |                                            |                           |       |       |
|----------------------|--------------------------------------------|---------------------------|-------|-------|
| Motor manufacturer   | KSB SE & Co. KGaA                          | Rated voltage             | 380   | V     |
| Design acc. standard | -                                          | Rated frequency           | 60    | Hz    |
| Degree of protection | IP68                                       | Rated power P2            | 11,2  | kW    |
| Insulation class     | F                                          | Rated current             | 24,8  | A     |
| Coolant temperature  | < / = 40 °C (104 °F)                       | Nominal speed             | 1.167 | 1/min |
| Starting mode        | Direct starting                            | Starting to rated current | 6,5   |       |
| No. starts / h       | 15                                         | Starting current          | 161,2 | A     |
|                      |                                            | Max. voltage              | 399   | V     |
|                      |                                            | Min. voltage              | 361   | V     |
| Motor casing         | Grey cast iron EN-GJL-250 (A 48 Class 35B) |                           |       |       |
| Explosion protection | --                                         |                           |       |       |
| Pump type            | Amaline C 3036-1160/126UDG                 |                           |       |       |

| Load | P1<br>kW | P2<br>kW | eta<br>% | cos phi | I<br>A |
|------|----------|----------|----------|---------|--------|
| 4/4  | 13,06    | 11,2     | 85,7     | 0,8     | 24,8   |
| 3/4  | 9,84     | 8,4      | 85,3     | 0,73    | 20,5   |
| 2/4  | 6,73     | 5,6      | 83,2     | 0,6     | 17,1   |
| 1/4  | 3,73     | 2,8      | 75,0     | 0,39    | 14,5   |

|                     |                                      |          |                     |
|---------------------|--------------------------------------|----------|---------------------|
| Main cable          | 1 x AWG 13-12                        | Diameter | 18,50 mm...19,50 mm |
| Control cable       | ---                                  | Diameter |                     |
| Cable, outer sheath | Waterproof synthetic rubber compound |          |                     |
| Cable length        | 10 m (33 ft)                         |          |                     |

