#### **Data sheet**



Customer item no.:

Communication dated: 01/02/2023

Doc. no.: KSB Indonesia

Quantity: 1

Number: ES 8002227526

Item no.: 100 Date: 01/02/2023 Page: 1 / 5

Version no.: 1

# KRTK 250-401/1104UNG1-S

#### Operating data

275.000 l/s Requested flow rate Requested developed head 25.00 m Pumped medium Water

Clean water

Pumped medium details Not containing chemical and mechanical substances which

affect the materials

30.0 °C Ambient air temperature 25.0 °C Fluid temperature Fluid density 997 kg/m3

0.89 mm<sup>2</sup>/s Fluid viscosity 86.89 kW Max. power on curve

Actual flow rate 274.985 l/s Actual developed head 25.00 m Efficiency 78.5 % 85.60 kW Power absorbed Pump speed of rotation 1482 rpm

Shutoff head 45.70 m Design

Single system 1 x 100 %

Performance test No

Design

Design Orientation Suction flange pump drilled according to(DN1)

Discharge flange pump drilled DN 250 / PN 10 / Drilled

according to(DN2)

Shaft seal

Shaft seal manufacturer

Type

Material code

Close-coupled submersible

Vertical unmachined

according to EN 1092-2 2 mech. seals in tandem arrangement with oil reservoir

**KSB** 

MG

SIC/SIC/NBR

Impeller type

Wear ring Impeller diameter Free passage size Direction of rotation from drive

Temperature sensor PT100

inboard

Color

Multivane radial flow impeller

Tolerances to ISO 9906 Class

3B; below 10 kW acc. to

paragraph 4.4.2

Casing wear ring 362.0 mm 105 mm Clockwise With

Ultramarine blue (RAL 5002)

KSB-blue

#### Driver, accessories

Driver type Model (make) **KSB** KSB Sub. motor Motor const. type Frequency 50 Hz Rated voltage 400 V 110.00 kW Rated power P2 Available reserve 28.50 % Rated current 206.0 A

Starting current ratio

Insulation class

Motor enclosure Cos phi at 4/4 load

Motor efficiency at 4/4 load Temperature sensor Motor winding

Electric motor

6.5

H according IEC 34-1

IP68 0.84 92.0 %

Bimetal switch 2x 400 / 690 V

Number of poles

Starting mode Connection mode Delta

Motor cooling method Surface cooling

Motor version

Cable design

Cable entry Sealed along entire length

Power cable

Number of power cables

Control cable

Number of control cables Moisture sensor

Cable length

Direct/Star-delta possible

Rubber hose

S1BN8-F 4G35

S1BN8-F 10G1.5

With

10.00 m

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KRTK 250-401/1104UNG1-S

Materials G1

Notes

General criteria for a water analysis: pH-value >= 6,5; chloride content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg.

Pump casing (101) Discharge cover (163) Shaft (210)

Impeller (230)

Bearing bracket (330)

Grey cast iron EN-GJL-250

Grey cast iron EN-GJL-250 Chrome steel 1.4021+QT800 GX2CRNIMOCUN25-6-3-3

Grey cast iron EN-GJL-250

Stationary with guide wire

O-Ring (412)

Casing wear ring (502.1) Shaft protecting sleeve (524) Motor housing (811) Motor cable (824)

Screw (900)

Nitrile rubber NBR

Grey cast iron EN-GJL-250 Chrome steel 1.4021+QT800 Grey cast iron EN-GJL-250

Chloroprene rubber CrNiMo steel A4

Installation parts

Installation type Scope of supply

Pump with installation parts Installation depth 4.50 m G

Material concept

Type Material Length

Max. load

Chain

CrNiMo steel 1.4404

5.00 m 2500 kg

**Duckfoot bend** 

DN 250 Size Flange design ΕN

Duckfoot bend size (DN2 / DN 250 Drilled according to DN3)

Material Grey cast iron EN-GJL-250 Mounting type Composite anchor bolts

Foundation rail Without

Claw

Design Straight DN 250 Size

Lifting chain / -rope

## Performance curve



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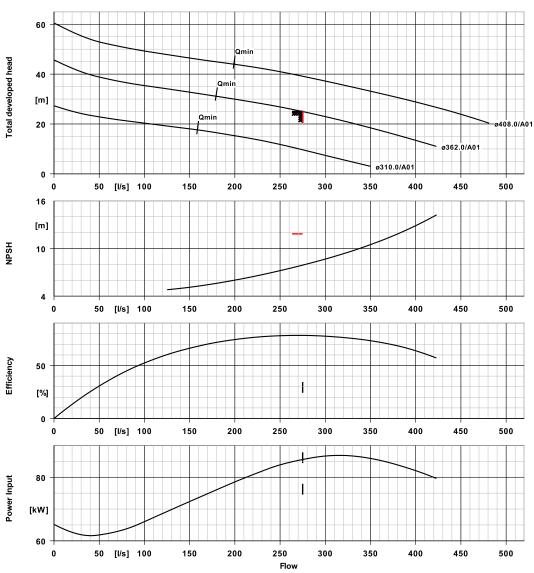
Quantity: 1

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## KRTK 250-401/1104UNG1-S



# Curve data

| Speed of rotation        | 1482 rpm                |
|--------------------------|-------------------------|
| Fluid density            | 997 kg/m³               |
| Viscosity                | 0.89 mm <sup>2</sup> /s |
| Flow rate                | 274.985 l/s             |
| Requested flow rate      | 275.000 l/s             |
| Total developed head     | 25.00 m                 |
| Requested developed head | 25.00 m                 |

Efficiency
Power absorbed
NPSH 3%
Curve number
Effective impeller diameter
Acceptance standard

85.60 kW 7.91 m K42502s/3 neter 362.0 mm Tolerances to ISO 9906

78.5 %

Class 3B; below 10 kW acc. to paragraph 4.4.2

# Installation plan



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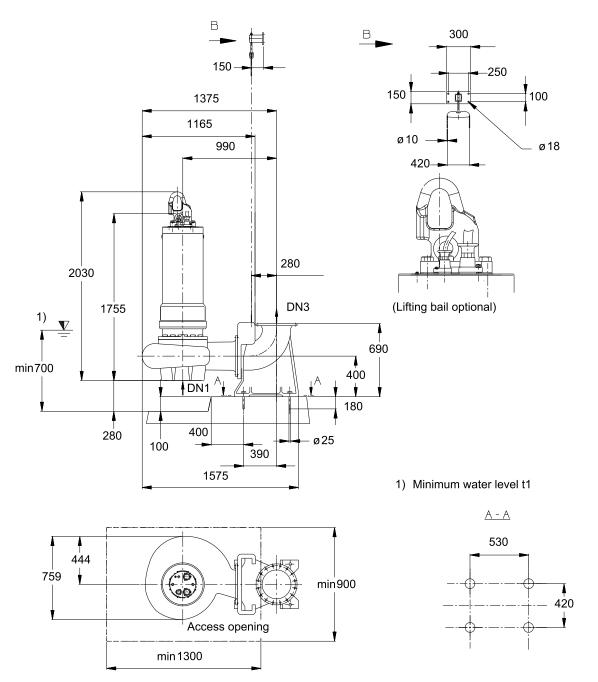
Quantity: 1

# KRTK 250-401/1104UNG1-S

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# Installation plan



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KRTK 250-401/1104UNG1-S

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Version no.: 1

Motor

Motor manufacturer KSB Motor size 110N Motor power 110.00 kW

Number of poles

Speed of rotation 1478 rpm

Connections

Suction flange pump drilled

according to(DN1)

Duckfoot bend size (DN2 /

DN3)

unmachined

DN 250 Drilled according to

ENI

Weight net

Pump, Motor, Cable 1334 kg Claw / Foot 295 kg Total 1629 kg

For auxiliary connections see

separate drawing.

Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height: DIN 747 Dimensions without tolerances, middle tolerances to: Connection dimensions for pumps:

Dimensions without tolerances - welded parts: Dimensions without tolerances - gray cast iron parts: Dimensions without tolerances - stainless steel parts: ISO 2768-m EN735 ISO 13920-B ISO 8062-CT11

ISO 8062-CT12