

Compact data sheet

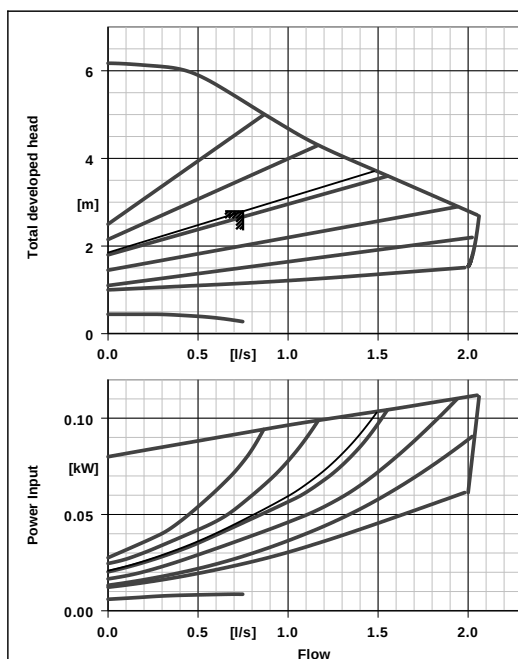


Customer item no.:
Communication dated:
Doc. no.:
Quantity: 1

Number: ES 4352861
Item no.:100
Date: 26/05/2016
Page: 1 / 4

CALIO Z 30-060 PN10 (29134717)

Version no.: 1



Operating data

Flow Rate	0.750 l/s
Discharge head	2.79 m
Power	0.05 kW
Efficiency (EEI)	≤ 0.23

Data specified

Medium category	Water, heating water
Medium variant	Heating water up to 100°C (max.), acc. to VDI 2035
Fluid Temperature	20.0 °C

System data

Design	Twin system one full duty + one standby pump
Driver Speed Selection	Speed adjustment
Pump Speed adjustment via.	Frequency inverter

Material

Impeller material	PSU-GF30
Casing material	Cast iron EN-GJL-200
Shaft Material	Chrome Steel 1.4034

Motor data

Power	0.05 kW
Motor manufacturer	KSB
Mains Type	One phase (1~)
Max. Rated Current	1.0 A
Min. Rated Current	0.1 A
Rated voltage	230 V

Design

Type series	Calio Z
Pump size	30-060
Suction nominal size	R 1 1/4
Discharge nominal size	R 1 1/4
Suction nominal pressure	PN 10
Discharge nominal pressure	PN 10
Weight	13 kg
Connection standard	ISO7-1

Installation plan

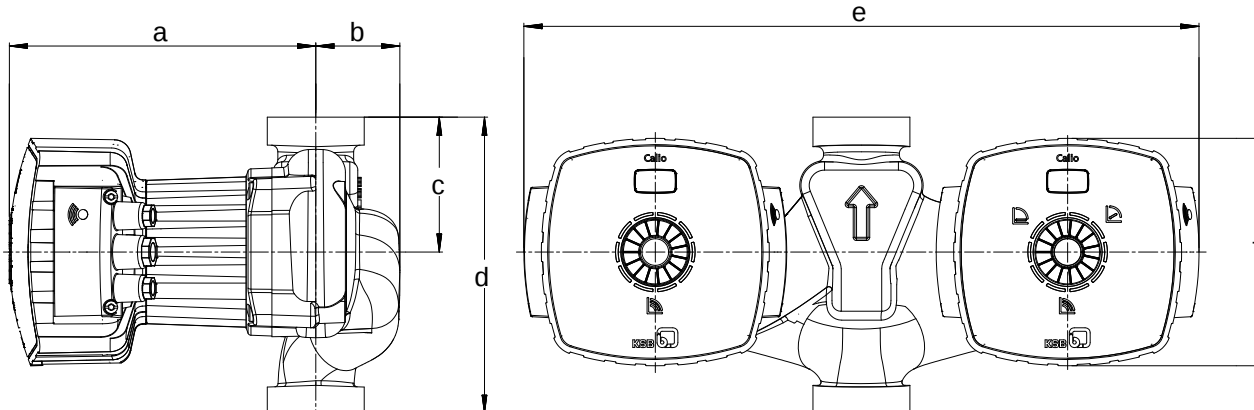


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Page: 2 / 4

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Installation Plan

Pump unit dimension a	186.0 mm
Pump unit dimension e	409.0 mm
Pump unit dimension f	138.0 mm

Pump Dimension b	51.0 mm
Pump Dimension c	82.0 mm
Pump Dimension d	180.0 mm

Text for invitation of tenders



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Number: ES 4352861
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Date: 26/05/2016
Page: 3 / 4

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Position	Quantity	Text for invitation of tenders		
100	1	Tender Text Maintenance-free, screw-ended high-efficiency glandless twin pump with electric motor, integrated continuously variable differential pressure control and an energy efficiency index exceeding ErP 2015 requirements. Fluids handled • Heating water to VDI 2035 • Pure, thin-bodied, non-aggressive and non-explosive fluids not containing any mineral oil, solids or long fibres • Fluids with a max. viscosity of 10 mm²/s • Water/glycol mixtures • Ethylene/propylene glycols with corrosion inhibitors as per operating manual Operating modes • Eco Mode with dynamic differential pressure setpoint adjustment • Proportional-pressure control • Constant-pressure control • Boost Mode Functions • Operating mode set manually or via Modbus • Setpoint settings 0-100% in increments of 1 % • Remote starting/stopping via digital input • Setpoint input for differential pressure or speed manual, via external analog 0 - 10 VDC signal or via Modbus • Twin pump operation with automatic pump changeover in the event of a fault or after 24 hours' runtime • Remote monitoring and control of pump via Modbus • Control panel with integrated symbols, showing the operating mode and, in alternation, the electrical input power and the flow rate • Error codes indicated on the display • Automatic setback operation, can be disabled • Automatic venting • Soft start with limitation of starting current • Deblocking function • Motor protection Communication interfaces and functions integrated in the pump • 1x terminal pair for Modbus • 1x terminal pair for external analog 0 - 10 VDC signal • 1x terminal pair for external ON/OFF of the pump • 1x terminal pair for twin pump operation • 1x general fault message relay (changeover contact) • "System operational" message via external signalling module		

Text for invitation of tenders



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Page: 4 / 4

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Position	Quantity	Text for invitation of tenders		
		System data Design Twin system one full duty + one standby pump Driver Speed Selection Speed adjustment Pump Speed adjustment via. Frequency inverter Operating data Flow Rate 0.750 l/s Discharge head 2.79 m Power 0.05 kW Efficiency (EEI) ≤ 0.23 Max. Ambient Temperature 40.0 °C Material Impeller material PSU-GF30 Casing material Cast iron EN-GJL-200 Shaft Material Chrome Steel 1.4034 Motor data Power 0.05 kW Motor manufacturer KSB Mains Type One phase (1~) Max. Rated Current 1.0 A Min. Rated Current 0.1 A Rated voltage 230 V Data specified Medium category Water, heating water Medium variant Heating water up to 100°C (max.), acc. to VDI 2035 Fluid Temperature 20.0 °C Design Type series Calio Z Pump size 30-060 Suction nominal size R 1 1/4 Discharge nominal size R 1 1/4 Suction nominal pressure PN 10 Discharge nominal pressure PN 10 Weight 13 kg Connection standard ISO7-1		