CRIE 10-10 A-CA-I-E-HQQE

No. 96541254

Vertical, multistage centrifugal pump with integrated frequency converter. Pump materials in contact with the liquid are in stainless steel (EN 1.4301)

CRIE 10-10 A-CA-I-E-HQQE Model number 96541254

Specifications

Product name	CRIE 10-10 A-CA-I-E-HQQE
Product No	96541254
Price	

Technical

Pump speed on which pump data are based	3467 rpm
Rated flow	12.1 m³/h
Maximum head	147 m
Stages	10
Impellers	10

Low NPSH	N
Pump orientation	Vertical
Shaft seal arrangement	Single
Code for shaft seal	HQQE
Approvals	CURUS
Curve tolerance	ISO9906:2012 3B
Pump version	A
Model	A

Materials

Base	Stainless steel
	EN 1.4408
	AISI 316
Impeller	Stainless steel
	EN 1.4301
	AISI 304
Material code	I
Code for rubber	E
Bearing	SIC

Installation

t max amb	40 °C
Maximum operating pressure	16 bar
Max pressure at stated temp	16 bar / 120 °C
	16 bar / -20 °C
Type of connection	FlexiClamp
Size of inlet connection	DN 50
Size of outlet connection	DN 50
Pressure rating for connection	PN 25
Flange size for motor	213TC
Connect code	CA

Liquid

Pumped liquid	Water

Liquid temperature range	-20 .. 120 °C
Selected liquid temperature	20 °C
Density	998.2 kg/m³

Electrical data

Motor standard	NEMA
Motor type	132DA
IE Efficiency class	NEMA Premium / IE3 60Hz
Rated power - P2	5.5 kW
Power (P2) required by pump	5.5 kW
Mains frequency	60 Hz
Rated voltage	3 x 460-480 V
Service factor	1.15
Rated current	8.9 A
Cos phi - power factor	0.94
Rated speed	360-3470 rpm
Efficiency	IE3 89,5%
Motor efficiency at full load	86.9 %
Number of poles	2
Enclosure class (IEC 34-5)	IP55
Insulation class (IEC 85)	F
Built-in motor protection	YES
Motor No	85900913

Controls

Frequency converter	Built-in
Pressure sensor	N

Others

Net weight	91 kg
Gross weight	100 kg
Shipping volume	0.285 m³
Config. file no	97912657

Quotation

CRIE 10-10 A-CA-I-E-HQQE

Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.

The pump has the following characteristics:

- Impellers, intermediate chambers and outer sleeve are made of Stainless steel DIN W.-Nr. EN 1.4301.
- Pump head cover and base are made of Stainless steel DIN W.-Nr. EN 1.4408.
- The shaft seal has assembly length according to EN 12756.
- Power transmission is via cast iron split coupling.
- Pipework connection is via FlexiClamp flanges/couplings.

The pump is fitted with an NEMA-flanged three-phase MLE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection.

External sensor can be connected if controlled pump operation based on for example flow, differential pressure or temperature is required.

A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault".

Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The terminal box holds terminals for the connection of:

- Pump start/stop (potential-free contact),
- external remote setpoint setting via

analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA,
- 5 V voltage supply for setpoint potentiometer, Imax = 5 mA,
- sensor, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA,
- 24 V voltage supply for sensor, Imax = 40 mA,
- input for forced control to MIN, MAX, External fault or Flowswitch (potential-free contact),
- potential-free fault signal relay with changeover contact, reporting Fault, Operation or Ready,
- RS485 GENIbus.

CONTROLS:

Frequency converter:	Built-in
Pressure sensor:	N

LIQUID:

Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³

TECHNICAL:

Pump speed on which pump data are based:	3467 rpm
Rated flow:	12.1 m³/h
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CURUS
Curve tolerance:	ISO9906:2012 3B

MATERIALS:

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Impeller:	Stainless steel EN 1.4301 AISI 304
Bearing:	SIC

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Type of connection:	FlexiClamp
Size of inlet connection:	DN 50
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Pressure rating for connection:	PN 25
Flange size for motor:	213TC

ELECTRICAL DATA:

Motor standard:	NEMA
Motor type:	132DA
IE Efficiency class:	NEMA Premium / IE3 60Hz
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	60 Hz
Rated voltage:	3 x 460-480 V
Service factor:	1.15
Rated current:	8.9 A
Cos phi - power factor:	0.94
Rated speed:	360-3470 rpm
Efficiency:	IE3 89,5%
Motor efficiency at full load:	86.9 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor No:	85900913

OTHERS:

Net weight:	91 kg
Gross weight:	100 kg
Shipping volume:	0.285 m^3