
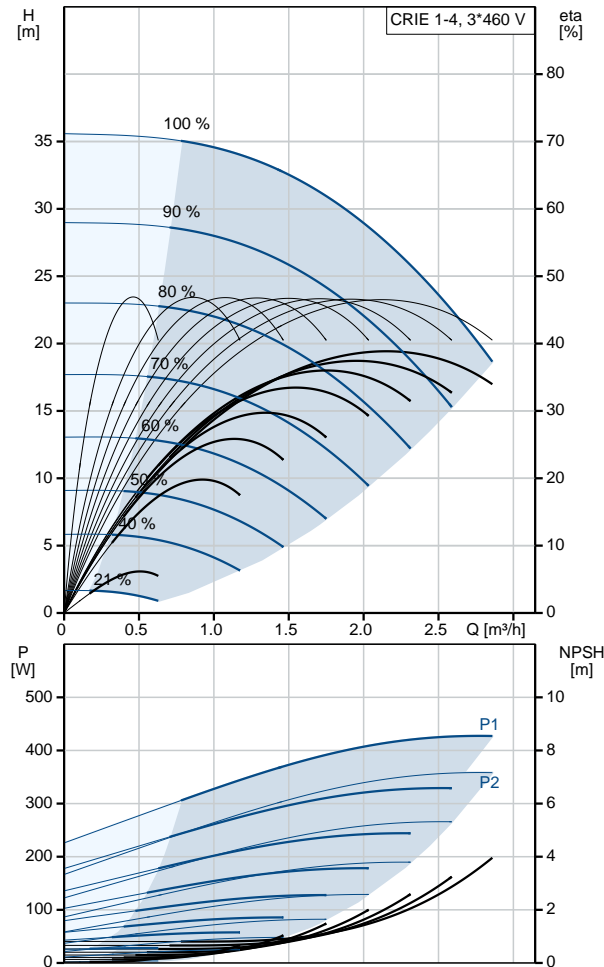


Position	Qty.	Description
	1	<p data-bbox="320 338 632 365">CRIE 1-4 AN-CA-I-E-HQQE</p> <div data-bbox="432 389 568 622" style="text-align: center;">  </div> <p data-bbox="320 660 584 687">Product No.: 98389400</p> <p data-bbox="320 719 1414 795">Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. Pump materials in contact with the liquid are in stainless steel.</p> <p data-bbox="320 804 1377 857">A cartridge shaft seal ensures high reliability, safe handling and easy service and access. Power transmission is via a rigid split coupling. Pipework connection is via FlexiClamps.</p> <p data-bbox="320 891 1390 945">The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor. The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.</p> <p data-bbox="320 952 1453 1077">The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. A control panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the control panel provides visual indication of pump status:</p> <ul data-bbox="357 1090 1436 1234" style="list-style-type: none"> - "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) - "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) - "Alarm": Motor has stopped (flashing red indicator lights). <p data-bbox="320 1265 1401 1344">Communication with the pump is possible by means of the Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p data-bbox="320 1379 1377 1433">The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:</p> <ul data-bbox="357 1440 1436 1821" style="list-style-type: none"> - two dedicated digital inputs - three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs - 5 V voltage supply to potentiometer and sensor - one analog output, 0-10 V, 0(4)-20 mA - two configurable digital inputs or open-collector outputs - two Pt100/Pt1000 inputs - LiqTec, dry-running protection sensor input - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. <p data-bbox="320 1883 405 1910">Liquid:</p> <p data-bbox="320 1912 823 2031">Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³</p> <p data-bbox="320 2063 443 2089">Technical:</p>

Position	Qty.	Description
		<p>Speed for pump data: 3447 rpm Rated flow: 2.2 m³/h Rated head: 28.2 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE, EAC, ACS Curve tolerance: ISO9906:2012 3B</p> <p>Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC</p> <p>Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C Type of connection: FlexiClamp Size of inlet connection: DN 32 1 1/4 inch Size of outlet connection: DN 32 1 1/4 inch Pressure rating: PN 25 Flange size for motor: FT85</p> <p>Electrical data: Motor standard: IEC Motor type: 71A IE Efficiency class: IE5 Rated power - P2: 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 1,05-1,00 A Cos phi - power factor: 0,68-0,54 Rated speed: 360-4000 rpm Efficiency: 84,5% Motor efficiency at full load: 84.5 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F</p> <p>Controls: Frequency converter: Built-in Pressure sensor: Y</p> <p>Others: Minimum efficiency index, MEI : 0.7 Net weight: 21.5 kg Gross weight: 24.4 kg Shipping volume: 0.143 m³</p>

Description	Value
General information:	
Product name:	CRIE 1-4 AN-CA-I-E-HQQE
Product No:	98389400
EAN number:	5711494177127
Technical:	
Speed for pump data:	3447 rpm
Rated flow:	2.2 m³/h
Rated head:	28.2 m
Stages:	4
Impellers:	4
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	AN
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 material:	SIC
Installation:	
Maximum ambient temperature:	50 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 120 °C 25 bar / -20 °C
Type of connection:	FlexiClamp
Connect code:	CA
Size of inlet connection:	DN 32 1 1/4 inch
Size of outlet connection:	DN 32 1 1/4 inch
Pressure rating:	PN 25
Flange size for motor:	FT85
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	71A
IE Efficiency class:	IE5
Rated power - P2:	0.37 kW
Power (P2) required by pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V





Company name:

Created by:

Phone:

Date: 20/02/2018

Description	Value
Rated current:	1,05-1,00 A
Cos phi - power factor:	0,68-0,54
Rated speed:	360-4000 rpm
Efficiency:	84,5%
Motor efficiency at full load:	84.5 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98190218

Controls:

Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Y

Others:

Minimum efficiency index, MEI :	0.7
Net weight:	21.5 kg
Gross weight:	24.4 kg
Shipping volume:	0.143 m ³