

**Date:** 19/03/2019

Qty. | Description

1 CRIE 15-1 N-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 98390734

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.

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.

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. An operating 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 operating panel provides visual indication of pump status:

- "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).

Communication with the pump is possible by means of 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".

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:

- 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.

## Controls:

Frequency converter: Built-in Pressure sensor: Y



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Liquid:

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

Technical:

Pump speed on which pump data are based: 3501 rpm

Rated flow: 20.5 m³/h
Rated head: 14.5 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE

Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

Maximum ambient temperature: 50 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -20 °C

Type of connection: DIN / ANSI / JIS

Size of inlet connection: DN 50

2 inch

Size of outlet connection: DN 50 2 inch

Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FT115

**Electrical data:** 

Motor standard: IEC
Motor type: 90SC
IE Efficiency class: IE5
Rated power - P2: 1.5 kW
Power (P2) required by pump: 1.5 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-500 V
Rated current: 2.90-2.40 A
Cos phi - power factor: 0.92-0.85
Rated speed: 360-2400 rpm

Efficiency: 88.9%
Motor efficiency at full load: 88.9 %
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI ≥: 0.70 Net weight: 43 kg Gross weight: 47 kg



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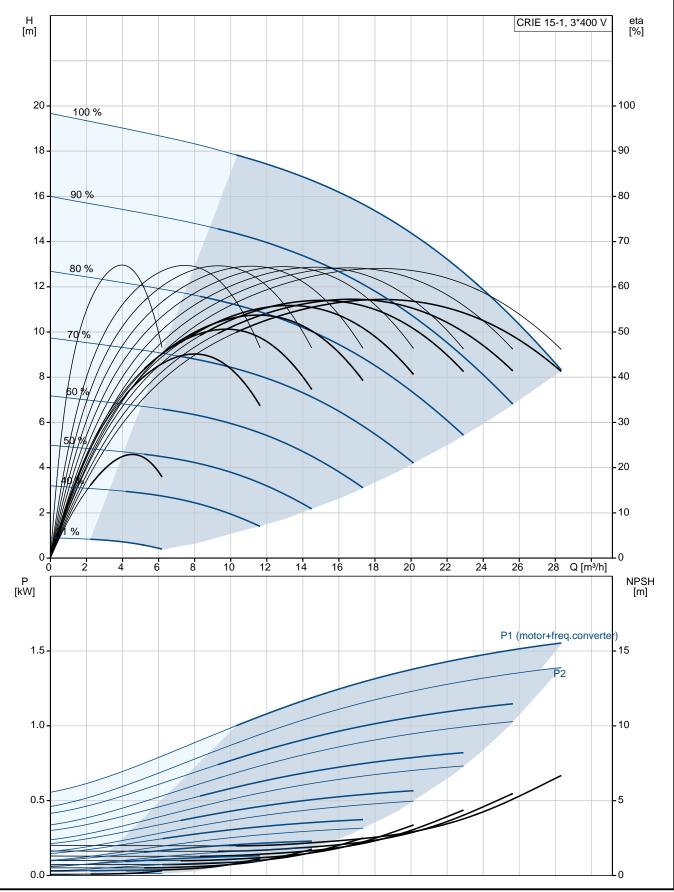
| Qty. | Description      |          |
|------|------------------|----------|
|      | Shipping volume: | 0.143 m³ |

Country of origin: GB
Custom tariff no.: 84137075



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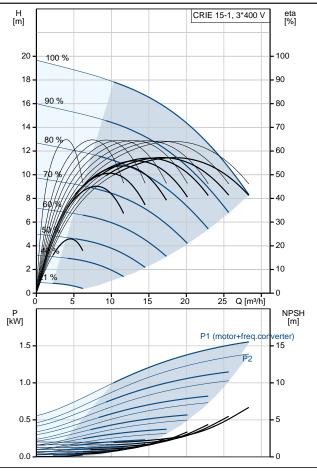
## 98390734 CRIE 15-1 N-FGJ-A-E-HQQE 50 Hz

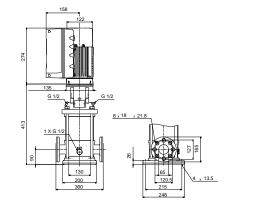


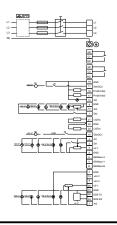


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| Description                              | Value                  |  |
|--|------------------------|--|
| General information:                     |                        |  |
| Product name:                            | CRIE 15-1              |  |
|  | N-FGJ-A-E-HQQE         |  |
| Product No:                              | 98390734               |  |
| EAN number:                              | 5711494202171          |  |
| Price:                                   | 2.350,00 GBP           |  |
| Technical:                               |                        |  |
| Pump speed on which pump data are based: | 3501 rpm               |  |
| Rated flow:                              | 20.5 m <sup>3</sup> /h |  |
| Rated head:                              | 14.5 m                 |  |
| Head max:                                | 19.6 m                 |  |
| Stages:                                  | 2                      |  |
| Impellers:                               | 1                      |  |
| Number of reduced-diameter impellers:    | 0                      |  |
| 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:                            | N                      |  |
| Model:                                   | Α                      |  |
| Materials:                               |                        |  |
| Base:                                    | Stainless steel        |  |
|  | EN 1.4408              |  |
|  | AISI 316               |  |
| Impeller:                                | Stainless steel        |  |
|  | EN 1.4301              |  |
|  | AISI 304               |  |
| Material code:                           | A                      |  |
| Code for rubber:                         | E                      |  |
| Bearing:                                 | SIC                    |  |
| Installation:                            |                        |  |
| Maximum ambient temperature:             | 50 °C                  |  |
| Maximum operating pressure:              | 16 bar                 |  |
| Max pressure at stated temp:             | 16 bar / 120 °C        |  |
|  | 16 bar / -20 °C        |  |
| Type of connection:                      | DIN / ANSI / JIS       |  |
| Size of inlet connection:                | DN 50                  |  |
|  | 2 inch                 |  |
| Size of outlet connection:               | DN 50                  |  |
|  | 2 inch                 |  |
| Pressure rating for pipe connection:     | PN 25                  |  |
| Flange rating inlet:                     | 300 lb                 |  |
| Flange size for motor:                   | FT115                  |  |
| Connect code:                            | FGJ                    |  |
| Liquid:                                  | Motor                  |  |
| Pumped liquid:                           | Water                  |  |
| Liquid temperature during energtion:     | -20 120 °C             |  |
| Liquid temperature during operation:     | 20 °C                  |  |
| Density: 998.2 kg/m³                     |                        |  |
| Electrical data:                         | IEC                    |  |
| Motor standard:                          | IEC                    |  |
| Motor type:                              | 90SC                   |  |
| IE Efficiency class:                     | 1E5                    |  |
| Rated power - P2:                        | 1.5 kW                 |  |
| Power (P2) required by pump:             | 1.5 kW                 |  |
| Mains frequency:                         | 50 Hz                  |  |









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| Description                      | Value                |
|----------------------------------|----------------------|
| Rated voltage:                   | 3 x 380-500 V        |
| Rated current:                   | 2.90-2.40 A          |
| Cos phi - power factor:          | 0.92-0.85            |
| Rated speed:                     | 360-4000 rpm         |
| Efficiency:                      | 88.9%                |
| Motor efficiency at full load:   | 88.9 %               |
| Enclosure class (IEC 34-5):      | IP55                 |
| Insulation class (IEC 85):       | F                    |
| Motor protec:                    | YES                  |
| Motor No:                        | 98190189             |
| Controls:                        |                      |
| Control panel:                   | Standard             |
| Function Module:                 | FM300 - Advanced     |
| Frequency converter:             | Built-in             |
| Pressure sensor:                 | Υ                    |
| Others:                          |                      |
| Minimum efficiency index, MEI ≥: | 0.70                 |
| Net weight:                      | 43 kg                |
| Gross weight:                    | 47 kg                |
| Shipping volume:                 | 0.143 m <sup>3</sup> |
| Country of origin:               | GB                   |
| Custom tariff no.:               | 84137075             |



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