

**Date:** 19/03/2019

Qty. | Description

1 CRIE 5-2 N-CA-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 98390089

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 FlexiClamps.

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

Liquid:



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#### Qty. **Description**

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

### Technical:

Pump speed on which pump data are based: 3447 rpm

Rated flow: 6.9 m<sup>3</sup>/h Rated head: 12.9 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: 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

**DN 32** 

Size of outlet connection:

1 1/4 inch

Pressure rating for pipe connection: PN 25

Flange size for motor: FT85

### **Electrical data:**

**IEC** Motor standard: 71A Motor type: IE5 IE Efficiency class: Rated power - P2: 0.55 kW Power (P2) required by pump: 0.55 kW Mains frequency: 50 Hz 3 x 380-500 V Rated voltage: Rated current: 1.35-1.30 A Cos phi - power factor: 0.77-0.61 Rated speed: 360-4000 rpm

Efficiency: 85.9% Motor efficiency at full load: 85.9 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85):

## Others:

Minimum efficiency index, MEI ≥: 0.57 Net weight: 21 kg Gross weight: 23.9 kg Shipping volume: 0.143 m<sup>3</sup> Country of origin: GB

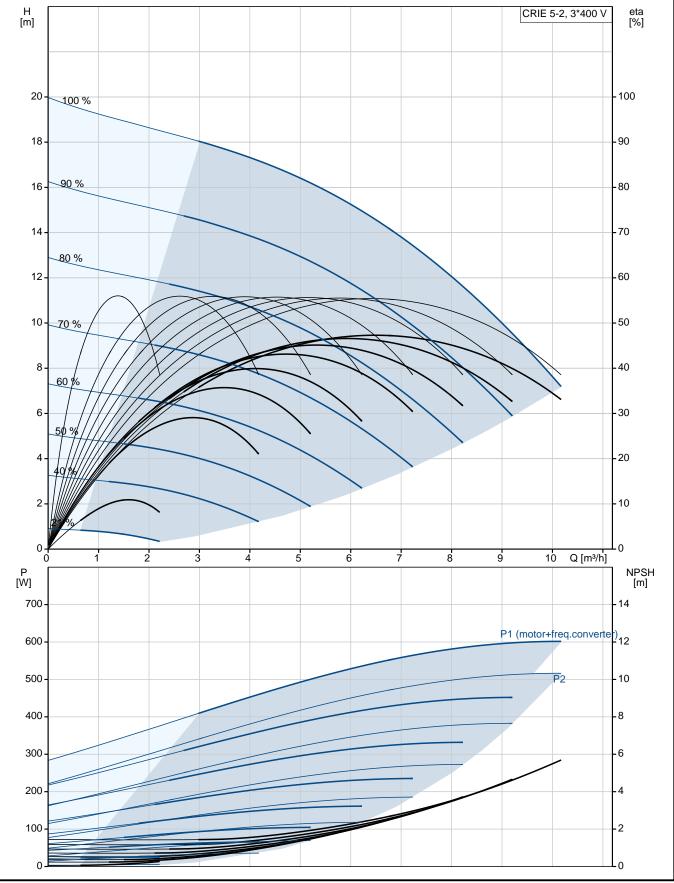


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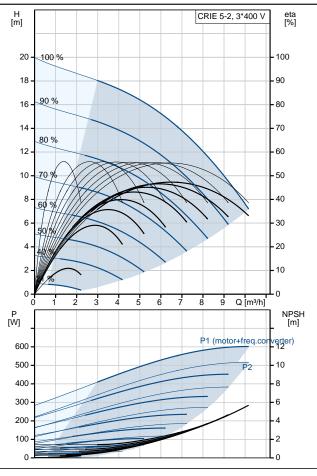
# 98390089 CRIE 5-2 N-CA-A-E-HQQE 50 Hz

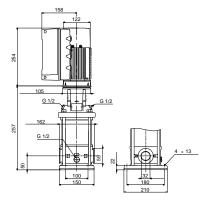


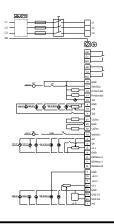


**Date:** 19/03/2019

Ceneral information:	Description	Value
Product No:         98390089           EAN number:         5711494190423           Price:         1.645,00 GBP           Technical:         3447 rpm           Pump speed on which pump data are based:         3447 rpm           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           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:         A           Materials:         Stainless steel           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:	•	1 4.1410
Product No:	Product name:	
EAN number:         5711494190423           Price:         1.645,00 GBP           Technical:         3447 rpm           Pump speed on which pump data are based:         6.9 m³/h           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           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:         A           Materials:         Stainless steel           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:         25 bar / 120 °C           Type of connection: </td <td></td> <td></td>		
Price:         1.645,00 GBP           Technical:         3447 rpm           Pump speed on which pump data are based:         3447 rpm           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           Impellers:         0           Nomber 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:         A           Materials:         Stainless steel           Base:         Stainless steel           EN 1.4408         A           AUSI 316         Interpeller:           Impeller:         Stainless steel           EN 1.4301         A           Material code:         A           Code for rubber:         E           Bearing:         SIC           Installation:         Maximum ambient temperature: <t< td=""><td></td><td></td></t<>		
Technical:           Pump speed on which pump data are based:         3447 rpm           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           Impellers:         2           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:         A           Materials:         Base:           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:         SIC           Maximum ambient temperature:         25 bar           Maximum operating pressure:         25 bar <t< td=""><td></td><td>** ** ** ***</td></t<>		** ** ** ***
Pump speed on which pump data are based:         3447 rpm           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           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:         A           Materials:         Base:           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:         Image: Size of all all all all all all all all all al		1.645,00 GBP
based:         3447 rpm           Rated flow:         6.9 m³/h           Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           Impellers:         2           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:         A           Materials:         Stainless steel           EN 1.4408         Alsi 1316           Impeller:         Stainless steel           EN 1.4301         Alsi 304           Material code:         A           Code for rubber:         E           Bearing:         SIC           Installation:         Image: Size of code           Maximum ambient temperature:         50 °C           Maximum ambient temperature:         50 °C           Maximum operating pressure:         25 bar / 120 °C           Type of connection:		
Rated head:         12.9 m           Head max:         20.6 m           Stages:         2           Impellers:         2           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:         A           Materials:         Stainless steel           EN 1.4408         AlSI 316           Impeller:         Stainless steel           EN 1.4301         AlSI 304           Material code:         A           Code for rubber:         E           Bearing:         SIC           Installation:         SIC           Maximum ambient temperature:         50 °C           Maximum operating pressure:         25 bar / 120 °C           Type of connection:         FlexiClamp           Size of inlet connection:         DN 32           11/4 inch           Pressure rating for pipe connection:         PN 25 <td></td> <td>3447 rpm</td>		3447 rpm
Head max:	Rated flow:	6.9 m³/h
Stages: 2   Impellers: 2   Impellers: 2   Impellers: 2   Impellers: 2   Impellers: 3   Impellers: 4   Impellers: 5   Impelle	Rated head:	12.9 m
Impellers:	Head max:	20.6 m
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:         A           Pump version:         N           Model:         A           Materials:         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:         SIC <t< td=""><td>Stages:</td><td>2</td></t<>	Stages:	2
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: A   Materials:   Base: Stainless steel   EN 1.4408   AISI 316   Impeller: Stainless steel   EN 1.4301   AISI 304   AISI 305	Impellers:	2
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: A  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: 25 bar Max pressure at stated temp: 25 bar / 120 °C Type of connection: DN 32 1 1/4 inch Size of outlet connection: DN 32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: 20 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³  Electrical data: Motor standard: IEC Motor (P2) required by pump: 0.55 kW Mains frequency: 50 Hz	Number of reduced-diameter impellers:	0
Shaft seal arrangement: Code for shaft seal: HQQE Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: N Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304  Material code: A Code for rubber: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Size of inlet connection: DN 32 Type of connection: DN 32 Til/4 inch Size of outlet connection: Pressure rating for pipe connection: PR 25 Flange size for motor: Flange size for motor: FT85 Connect code: Liquid temperature during operation: Density: Pumped liquid: Under the pressure of the pressu	Low NPSH:	N
Code for shaft seal: Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: N Model: A Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304  Material code: Code for rubber: EBearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Size of inlet connection: DN 32 Type of connection: DN 32 Size of outlet connection: PN 25 Flange size for motor: Flange size for motor: Flange size for motor: Flange size for motor: CODensity: Flectrical data: Motor standard: Motor standard: Motor standard: EE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: Stainless steel EN 1.4408 AISI 316  Individuals  Evaluation: EN 1.4301 AA  ACC COC EN 1.4301 AISI 304 A  A  A  COC EN 1.4301 A  AISI 304 A  A  COC EN 1.4301 A  ISI 304 A  A  COC EN 1.4408 AISI 316  EN 1.4408 AISI 316  EVA 1.4408 AISI 316  EVA 1.4408 AISI 316  EVA 1.4408 AISI 316  EVA 1.4100  EVA 1.	Pump orientation:	Vertical
Approvals on nameplate: CE, EAC,ACS Curve tolerance: ISO9906:2012 3B Pump version: N Model: A  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: 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: PN 25 Flange size for motor: FT85 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: 20 °C 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: 0.55 kW Mains frequency: 50 Hz	Shaft seal arrangement:	Single
Curve tolerance:         ISO9906:2012 3B           Pump version:         N           Model:         A           Materials:         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:         SIC           Maximum ambient temperature:         25 bar           Maximum operating pressure:         25 bar / 120 °C           Max pressure at stated temp:         25 bar / 120 °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 for pipe connection:         PN 25           Flange size for motor:         CA           Connect code:         CA           Liquid:         Water           Liquid temperature ange:         -20 120 °C           Liquid temperature during operation:         20 °C           Density:         998.2 kg/m³           Electrical data:         IE	Code for shaft seal:	HQQE
Curve tolerance:         ISO9906:2012 3B           Pump version:         N           Model:         A           Materials:         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:         SIC           Maximum ambient temperature:         25 bar           Maximum operating pressure:         25 bar / 120 °C           Max pressure at stated temp:         25 bar / 120 °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 for pipe connection:         PN 25           Flange size for motor:         CA           Connect code:         CA           Liquid:         Water           Liquid temperature ange:         -20 120 °C           Liquid temperature during operation:         20 °C           Density:         998.2 kg/m³           Electrical data:         IE	Approvals on nameplate:	CE, EAC,ACS
Model:  Materials: Base:  Stainless steel  EN 1.4408  AISI 316  Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code:  Code for rubber:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Size of inlet connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  Firable  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Peterical data:  Motor standard:  IEC  Rated power (P2) required by pump:  Maiss frequency:  Stainless steel  EN 1.4408  AISI 304  A  AC  CC  EV  EN 1.4301  A  A  CC  EV  EN 25 bar  A  A  CC  CA  EV  EN 25 bar  A  A  A  A  CC  EN 25 bar  A  A  A  A  A  A  A  A  A  A  A  A  A	Curve tolerance:	ISO9906:2012 3B
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: 25 bar  Max pressure at stated temp: 25 bar / 120 °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 for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  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: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz	Pump version:	N
Base:  Stainless steel  EN 1.4408  AISI 316  Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code:  Code for rubber:  Bearing:  SIC  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Size of inlet connection:  Size of outlet connection:  Pressure rating for pipe connection:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature during operation:  Description:  Liquid temperature during operation:  Description:  Electrical data:  Motor standard:  Motor standard:  IEC  Motor type:  Fated power - P2:  Power (P2) required by pump:  Mains frequency:  Stainless steel  EN 1.4408  AISI 316  En N.14400  AISI 304  A  A  A  A  Cone  EN 1.4301  A  A  A  Co °C  EN 25 bar  A  A  Co °C  EN 25 bar  A  A  1 1/4 inch  DN 32  1 1/4 inch  PN 25  FT85  Connect code:  CA  Liquid:  Water  Liquid temperature during operation:  20 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  71A  IE Efficiency class:  Rated power - P2:  0.55 kW  Mains frequency:  50 Hz	Model:	A
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: 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 for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA 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: Rated power - P2: 0.55 kW Mains frequency: 50 Hz	Materials:	
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: 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 for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA  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: 0.55 kW Power (P2) required by pump: 0.55 kW Mains frequency: 50 Hz	Base:	Stainless steel
Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code: A Code for rubber: Bearing: Installation:  Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Size of inlet connection: Size of inlet connection: DN 32  1 1/4 inch Size of outlet connection: DN 32  1 1/4 inch Pressure rating for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  Liquid: Pumped liquid: Water  Liquid temperature during operation: Dn 32  Liquid temperature during operation: DN 32  Electrical data: Motor standard: IEC Motor type: T1A  IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: SiCC		EN 1.4408
EN 1.4301 AISI 304  Material code: Code for rubber: Bearing: SIC  Installation:  Maximum ambient temperature: Maximum operating pressure: 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 for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: Density: 998.2 kg/m³  Electrical data: Motor standard: IEC Motor type: T1A IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: 50 Hz		* *
EN 1.4301 AISI 304  Material code: Code for rubber: Bearing: SIC  Installation:  Maximum ambient temperature: Maximum operating pressure: 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 for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: Density: 998.2 kg/m³  Electrical data: Motor standard: IEC Motor type: T1A IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: 50 Hz	Impeller:	Stainless steel
AISI 304  Material code: Code for rubber: Bearing: Bearing: Installation:  Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Size of connection: Size of inlet connection:  FlexiClamp Size of outlet connection: DN 32  1 1/4 inch Size of outlet connection: Pressure rating for pipe connection: PN 25 Flange size for motor: FT85 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: DN 32  Liquid temperature during operation: DN 25 Electrical data: Motor standard: EC Motor type: T1A  IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency: SO C		
Material code:  Code for rubber:  Bearing:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Size of connection:  Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Water  Liquid temperature range:  Liquid temperature during operation:  Do "C  Density:  Size of connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection:  PN 25  Flange size for motor:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Do "C  Density:  Size of outlet connection:  PN 25  Flange size for motor:  FT85  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Do "C  Density:  Size of outlet connection:  FT85  Connect code:  Liquid temperature during operation:  Do "C  Density:  Size of outlet connection:  FT85  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Do "C  Density:  Size of outlet connection:  FT85  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Do "C  Density:  Size of outlet connection:  FIEC  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  Do.55 kW  Mains frequency:  Size of connection:  An A  Bis connection:  Bis of connection:  Bis connection:  Bis connection:  Bis connection:  Size of connection:  Do "C  Do "Do "C  Do "Do "C  Do "Do "C  Do "Do "Do "C  Do "Do "Do "Do "Do "Do "Do "Do "Do "Do "		
Code for rubber:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Size of connection:  Size of outlet connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  Pressure rating for pipe connection:  FIRS5  Connect code:  CA  Liquid:  Pumped liquid:  Uquid temperature during operation:  Day 20 °C  Liquid temperature during operation:  Day 20 °C  Density:  Blectrical data:  Motor standard:  Motor type:  Rated power - P2:  Power (P2) required by pump:  Maximum ambient solic  SIC  SIC  Sol °C  CA  Liquid:  E  Bearing:  SIC  Sol °C  Density:  E  Sol °C  Density:  Bearing:  SIC  Sol °C  Density:  E  Sol °C  Density:  Bearing:  Sol °C  Density:  Sol Hz	Material code:	
Bearing: 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  Size of inlet connection: DN 32  1 1/4 inch  Size of outlet connection: DN 32  1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  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: 0.55 kW  Mains frequency: 50 Hz		
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 for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  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: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz		
Maximum ambient temperature:  Maximum operating pressure:  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:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature range:  Liquid temperature during operation:  DN 20 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  Rated power - P2:  Power (P2) required by pump:  0.55 kW  Mains frequency:  50 °C		0.0
Maximum operating pressure:  Max pressure at stated temp:  25 bar / 120 °C  Type of connection:  FlexiClamp  Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  PN 25  Flange size for motor:  Connect code:  Ca  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Desity:  Density:  Pelectrical data:  Motor standard:  Motor type:  Rated power - P2:  Power (P2) required by pump:  25 bar  25 bar  25 bar  25 bar  25 bar  26 bar  27 c  28 bar  28 bar  28 bar  29 °C  21 1/4 inch  29 N 25  FT85  CA  Liquid:  Water  Liquid:  Water  Liquid temperature during operation:  20 °C  Density:  Power (P2) required by pump:  D.55 kW  Mains frequency:  Maccordinates		50 °C
Max pressure at stated temp:  25 bar / 120 °C  Type of connection:  FlexiClamp  Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  DN 32  1 1/4 inch  PN 25  FT85  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature range:  -20 120 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor standard:  IEC  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  O.55 kW  Power (P2) required by pump:  O.55 kW  Mains frequency:  Size of outlet connection:  FlexiClamp  Size of outlet connection:  PN 25  CA  L14 inch  PN 25  FT85  CA  L14 inch  PN 25  FT85  CA  L15  ET85  CA  L16  L17  L17  L17  L17  L18  L18  L18  L19  L19  L19  L19  L19	·	
Type of connection:  Type of connection:  Type of connection:  Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Density:  Blectrical data:  Motor standard:  Motor type:  T1A  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  DN 32  1 1/4 inch  PN 25  CA  L120  CA  Liquid:  Water  Liquid temperature during operation:  20 °C  Density:  998.2 kg/m³  EleC  71A  IEC  Notor type:  71A  IE Sfliciency class:  Rated power - P2:  0.55 kW  Mains frequency:  50 Hz		
Type of connection:  Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Density:  Belectrical data:  Motor standard:  IEC  Motor type:  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  DN 32  1 1/4 inch  PN 25  FT85  CA  Liquid temperature  Vater  Lagrange  20 °C  Density:  Possa kg/m³  Electrical data:  Motor standard:  IEC  No.55 kW  Mains frequency:  So Hz	wax produite at stated temp.	
Size of inlet connection:  DN 32  1 1/4 inch  Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  Rated power - P2:  Power (P2) required by pump:  DN 32  1 1/4 inch  N 32  1 1/4 inch  N 4 inch  20  CA  Liquid:  Water  Liquid:  Water  Liquid temperature during operation:  20 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor standard:  Motor type:  71A  IE Efficiency class:  Rated power - P2:  0.55 kW  Mains frequency:  50 Hz	Type of connection:	
Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: Density: P98.2 kg/m³  Electrical data: Motor standard: Motor type: T1A  IE Efficiency class: Rated power - P2: Power (P2) required by pump: DN 32  1 1/4 inch DN 32  1 1/4 inch DN 32  1 20  CA  Liquid: Water  Liquid temperature during operation: Density: Power (P2) required by pump: Description: DN 32  1 1/4 inch DN 32  ET85  CA  Liquid: Water Liquid temperature during operation: DN 32  FT85  CA  Liquid: Power (P2) nequired by pump: Description: DN 32  1 1/4 inch DN 32  I 1/4 i		
Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  Liquid: Pumped liquid: Uquid temperature range: Liquid temperature during operation: Density: Density: P98.2 kg/m³  Electrical data: Motor standard: Motor type: T1A  IE Efficiency class: Rated power - P2: Dougle Size Size Size Size Size Size Size Siz	Size of fillet conflection.	-
1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT85  Connect code: CA  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: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz	Size of outlet connection:	,
Pressure rating for pipe connection:  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Pelectrical data:  Motor standard:  Motor type:  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  PT 25  CA  Water  Liquid temperature during operation:  20 °C  20 °C  20 °C  21 °C  22 °C  23 °C  24 °C  25 °C  26 °C  27 °C  28 °C  29 °C  29 °C  20 °C  20 °C  21 °C  21 °C  22 °C  23 °C  24 °C  25 °C  26 °C  27 °C  27 °C  28 °C  29 °C  29 °C  20 °C  20 °C  20 °C  20 °C  20 °C  21 °C  20	Size of outlet confinection.	
Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Pelectrical data:  Motor standard:  Motor type:  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  CA  Water  Uater  Value  V	Proceure reting for nine connection:	
Connect code:  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  Pelectrical data:  Motor standard:  Motor type:  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  CA  Water  Water  -20 120 °C  20 °C  998.2 kg/m³  EEC  71A  IEC  Motor type:  71A  IE5  Rated power - P2:  0.55 kW  Mains frequency:  50 Hz		
Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: Pumped liquid: Uiquid temperature during operation: Density: Pumped liquid: Uiquid temperature during operation: Density: Pumped liquid: Density: Densi		
Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  71A  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  Value Company Co		CA
Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  71A  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  -20 120 °C  20 °C  P98.2 kg/m³  IEC  71A  IEC  71A  IE5  Rated power - P2:  0.55 kW  50 Hz		14/-4
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: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz		
Density:         998.2 kg/m³           Electrical data:         IEC           Motor standard:         IEC           Motor type:         71A           IE Efficiency class:         IE5           Rated power - P2:         0.55 kW           Power (P2) required by pump:         0.55 kW           Mains frequency:         50 Hz		
Electrical data:  Motor standard:  Motor type:  71A  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  IEC  71A  IE5  Rated power - P2:  0.55 kW  50 Hz		
Motor standard: IEC  Motor type: 71A  IE Efficiency class: IE5  Rated power - P2: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz	·	998.2 kg/m³
Motor type: 71A  IE Efficiency class: IE5  Rated power - P2: 0.55 kW  Power (P2) required by pump: 0.55 kW  Mains frequency: 50 Hz		150
IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  0.55 kW  Mains frequency:  50 Hz		
Rated power - P2: 0.55 kW Power (P2) required by pump: 0.55 kW Mains frequency: 50 Hz	• •	
Power (P2) required by pump: 0.55 kW Mains frequency: 50 Hz		
Mains frequency: 50 Hz	•	
		0.55 kW
Rated voltage: 3 x 380-500 V		50 Hz
	Rated voltage:	3 x 380-500 V









**Date:** 19/03/2019

December (Inc.)	Value
Description	Value
Rated current:	1.35-1.30 A
Cos phi - power factor:	0.77-0.61
Rated speed:	360-4000 rpm
Efficiency:	85.9%
Motor efficiency at full load:	85.9 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98248297
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Υ
Others:	
Minimum efficiency index, MEI ≥:	0.57
Net weight:	21 kg
Gross weight:	23.9 kg
Shipping volume:	0.143 m <sup>3</sup>
Country of origin:	GB
Custom tariff no.:	84137075



**Date:** 19/03/2019

# 98390089 CRIE 5-2 N-CA-A-E-HQQE 50 Hz

