

**Date:** 19/03/2019

Qty. | Description

1 CRIE 5-4 A-CA-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 98390068

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
- 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: N

Liquid:

Pumped liquid: Water



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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: 3463 rpm

Rated flow:

Rated head:

Pump orientation:

Shaft seal arrangement:

Code for shaft seal:

Approvals on nameplate:

6.9 m³/h

28.4 m

Vertical

Single

HQQE

CE, EAC,ACS

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

Size of outlet connection: DN 32

1 1/4 inch

Pressure rating for pipe connection: PN 25 Flange size for motor: FT100

## Electrical data:

Motor standard: IEC

Motor type: 80B

IE Efficiency class: IE5

Rated power - P2: 1.1 kW

Power (P2) required by pump: 1.1 kW

Mains frequency: 50 Hz

Rated voltage: 3 x 380-500 V

Rated current: 2.20-1.90 A
Cos phi - power factor: 0.89-0.79
Rated speed: 360-4000 rpm

Efficiency: 89.1%
Motor efficiency at full load: 89.1 %
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

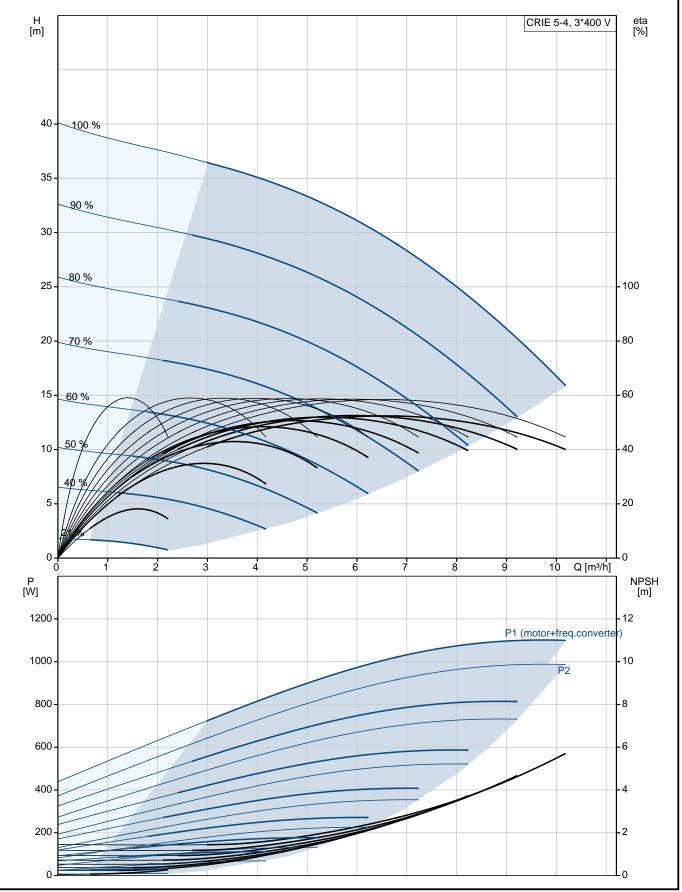
#### Others:

Minimum efficiency index, MEI â%¥: 0.57
Net weight: 24.3 kg
Gross weight: 27.2 kg
Shipping volume: 0.143 m³
Country of origin: GB
Custom tariff no.: 84137075



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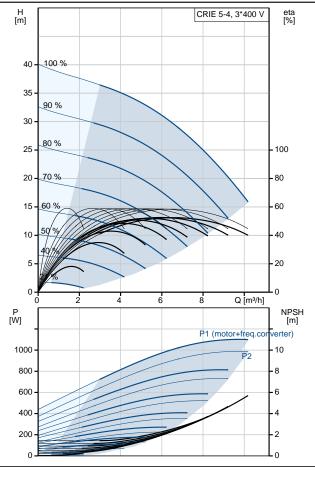
# 98390068 CRIE 5-4 A-CA-A-E-HQQE 50 Hz

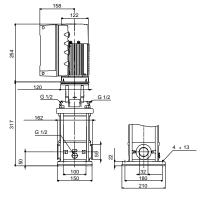


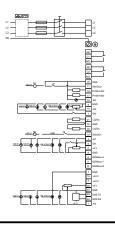


**Date:** 19/03/2019

General information:	Description	Value
Product name: Product No: Prod	•	Value
Product No: 9839068  EAN number: 5711494189816  Price: 1.732,00 GBP  Technical:  Pump speed on which pump data are based: 4.1.3 m  Stages: 4.1.3 m  AUDEL COde for shaft seal: HOQE  Approvals on nameplate: CE, EAC, ACS  Curve tolerance: ISO9906:2012 3B  Pump version: A  Maderials: 8  Base: Stainless steel  EN 1.4408  AISI 316  Impeller: 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 ambient temperature: 50 °C  Maximum ambient temperature: 50 °C  Maximum operating pressure: 25 bar / 120 °C  Z5 bar / -20 °C  Type of connection: PN 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: FT100  Connect code: CA  Liquid: Pumped liquid: Water  Liquid temperature during operation: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: HEC  Motor type: 80B  IE Efficiency class: IES  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz		CRIE 5-4
EAN number: 5711494189816 Price: 1.732,00 GBP  Technical: Pump speed on which pump data are based: 8.9 m³/h Rated flow: 6.9 m³/h Rated head: 41.3 m Stages: 4 Impellers: 4 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: A 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 / 20 °C Type of connection: DN 32 In 1/4 inch Size of outlet connection: DN 32 Flange size for motor: FT100 Connect code: CA Liquid: Pumpel iquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: Qo °C Density: BEF Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
Price:         1.732,00 GBP           Technical:         3463 rpm           Pump speed on which pump data are based:         3463 rpm           Rated flow:         6.9 m³/h           Rated head:         28.4 m           Head max:         4           Stages:         4           Impellers:         4           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:         A           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:         Maximum ambient temperature:         25 bar           Maximum operating pressure: <td></td> <td></td>		
Technical:  Pump speed on which pump data are based:  Rated flow: Rated flow: Rated flow: Rated flow: Rated head: Head max:  Stages:  Impellers:  Vertical Shaft seal arrangement: Code for shaft seal: HOQE Approvals on nameplate: CUrve tolerance: ISO9906:2012 3B Pump version: 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: Bearing: SIC Installation: Maximum ambient temperature: Size of inlet connection: DN 32 Flexing size for motor: Flexiclamp Size of outlet connection: Pressure rating for pipe connection: PN 25 Flange size for motor: Connect code: Liquid: Pumper liquid: Water Liquid temperature range: Liquid temperature during operation: Density: Beating: Rated flow: Als Nach and Sudes Als Size of Cach Liquid: Motor standard: Motor standard: Become Sudes Beating: Beat	EAN number:	5711494189816
Pump speed on which pump data are based:  Rated flow: Rated head: 28.4 m Head max: 41.3 m Stages: 4 Impellers: 4 Number of reduced-diameter impellers: 0 Low NPSH: NPump orientation: Shaft seal arrangement: Single Code for shaft seal: Approvals on nameplate: CE, EAC,ACS 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: A Code for rubber: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / -20 °C Type of connection: PlexiClamp Size of outlet connection: DN 32 1 1/4 inch Pressure rating for pipe connection: Pressure rating for pipe connection: Pn 25 Flange size for motor: Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: Density: Bettical and size an	Price:	1.732,00 GBP
based:         3940.5   Jimil           Rated flow:         6.9 m³/h           Rated head:         28.4 m           Head max:         41.3 m           Stages:         4           Impellers:         4           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:         A           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:         Maximum ambient temperature:         50 °C           Maximum operating pressure:         25 bar           Max pressure at stated temp:         25 bar / -20 °C           Type of connection:         FlexiClamp	Technical:	
Rated head:         28.4 m           Head max:         41.3 m           Stages:         4           Impellers:         4           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:         A           Model:         A           Maderials:         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:         50 °C           Maximum operating pressure:         25 bar / 120 °C           Type of connection:         FlexiClamp           Size of inlet connection:         DN 32           1 1/4 inch           Pressure rating for pipe connection:         FT100 <td>Pump speed on which pump data are based:</td> <td>3463 rpm</td>	Pump speed on which pump data are based:	3463 rpm
Head max:	Rated flow:	6.9 m³/h
Stages:         4           Impellers:         4           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:         A           Model:         A           Maderials:         Stainless steel           EN 1.4301         A           Male:         A           Code for rubber:         E           Bearing:         SIC </td <td>Rated head:</td> <td>28.4 m</td>	Rated head:	28.4 m
Impellers: 4  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: A  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: DN 32  1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT100  Connect code: CA  Liquid:  Pumped liquid: Water  Liquid temperature range: -20 120 °C  Liquid temperature during operation: Qo °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Mains frequency: 50 Hz	Head max:	41.3 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: A 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: FlexiClamp Size of inlet connection: DN 32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange size for motor: FT100 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Mains frequency: 50 Hz	Stages:	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: A 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/ -20 °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: CA Liquid: Pumped liquid: Water Liquid temperature during operation: 20 °C Liquid temperature during operation: Qn 98.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Mains frequency: 50 Hz	Impellers:	4
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: A 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 / 120 °C Type of connection: DN 32 Material connection: DN 32 Size of inlet connection: PN 25 Flange size for motor: FT100 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: 20 °C Density: 998.2 kg/m³ Electrical data: Motor standard: IEC Motor type: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Mains frequency: 50 Hz	Number of reduced-diameter impellers:	0
Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: 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: A Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: Dize of inlet connection: DN 32 Type of connection: DN 32 Size of outlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: Pressure rating for pipe connection: PN 25 Flange size for motor: Connect code: Ca Liquid: Pumped liquid: Water Liquid temperature during operation: Do 32 Liquid temperature during operation: Description: Des	Low NPSH:	N
Code for shaft seal: Approvals on nameplate: CE, EAC,ACS 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: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: 25 bar / 120 °C Maximum operation: DN 32 Type of connection: Size of outlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: PN 25 Flange size for motor: Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: DN 32 Electrical data: Motor standard: EC Motor type: EE Rated power - P2: Rated power (P2) required by pump: Mains frequency: Stainless steel EN 1.44 A  A CODe CE, SA  A CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS Sounless steel EN 1.4408 A A A A A CODe Stainless steel EN 1.4201  A A COC EN 25 bar / 20 °C  DN 32 1 1/4 inch  PR 25 Flange size for motor: FT100 COC CA Liquid temperature range: CO C CO Density: Densi	Pump orientation:	Vertical
Code for shaft seal: Approvals on nameplate: CE, EAC,ACS 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: Code for rubber: Bearing: Bearing: SIC Installation: Maximum ambient temperature: Maximum operating pressure: 25 bar / 120 °C Maximum operation: DN 32 Type of connection: Size of outlet connection: Pressure rating for pipe connection: Pressure rating for pipe connection: PN 25 Flange size for motor: Connect code: CA Liquid: Pumped liquid: Water Liquid temperature during operation: DN 32 Electrical data: Motor standard: EC Motor type: EE Rated power - P2: Rated power (P2) required by pump: Mains frequency: Stainless steel EN 1.44 A  A CODe CE, SA  A CE, EAC,ACS CE, EAC,ACS CE, EAC,ACS Sounless steel EN 1.4408 A A A A A CODe Stainless steel EN 1.4201  A A COC EN 25 bar / 20 °C  DN 32 1 1/4 inch  PR 25 Flange size for motor: FT100 COC CA Liquid temperature range: CO C CO Density: Densi	Shaft seal arrangement:	Single
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: 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: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
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: 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: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
Model:  Materials: Base:  Stainless steel  EN 1.4408  AISI 316  Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code:  Code for rubber:  Bearing:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  25 bar / -20 °C  Type of connection:  DN 32  11/4 inch  Size of inlet connection:  Pressure rating for pipe connection:  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  80B  IE Efficiency class:  Rated power - P2:  Rated power - P2:  Rated power - P2:  Rated power (P2) required by pump:  1.1 kW  Mains frequency:  50 Hz	•	
Model:  Materials: Base:  Stainless steel  EN 1.4408  AISI 316  Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code:  Code for rubber:  Bearing:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  25 bar / -20 °C  Type of connection:  DN 32  11/4 inch  Size of inlet connection:  Pressure rating for pipe connection:  Connect code:  CA  Liquid:  Pumped liquid:  Water  Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  IEC  Motor type:  80B  IE Efficiency class:  Rated power - P2:  Rated power - P2:  Rated power - P2:  Rated power (P2) required by pump:  1.1 kW  Mains frequency:  50 Hz	Pump version:	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: DN 32 1 1/4 inch Pressure rating for pipe connection: PN 25 Flange size for motor: FT100 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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz	·	A
Base:  EN 1.4408  AISI 316  Impeller:  Stainless steel  EN 1.4301  AISI 304  Material code:  A Code for rubber:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  25 bar  Max pressure at stated temp:  25 bar / -20 °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:  Water  Liquid temperature range:  Liquid temperature during operation:  Density:  Bob Rainless steel  EN 1.4408  AISI 316  IEC  Motor type:  80B  IE Efficiency class:  Rated power - P2:  Rated power - P2:  Rated power (P2) required by pump:  Mains frequency:  Sizainless steel  EN 1.4408  AISI 316  En N.14008  AISI 316  EN 1.4400  AUSI 304  A  AC  CO  CO  CO  CO  CO  CO  Size	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: FT100 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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz	Base:	Stainless steel
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: FT100 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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		FN 1.4408
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 outlet connection:  PN 32  1 1/4 inch  Size of outlet connection:  PN 25  Flange size for motor:  Connect code:  Liquid:  Pumped liquid:  Liquid temperature during operation:  Design of consider connection:  Connect code:  Cannect code:		
EN 1.4301 AISI 304  Material code: Code for rubber: Bearing: Bearing: Installation:  Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: 25 bar / 120 °C  Type of connection: FlexiClamp Size of inlet connection: DN 32 11/4 inch Size of outlet connection: DN 32 11/4 inch Pressure rating for pipe connection: PN 25 Flange size for motor: FT100 Connect code: CA Liquid: Pumped liquid: Water Liquid temperature range: -20 120 °C Liquid temperature during operation: Do °C Density: Pumped liquid: Liquid temperature during operation: Density: Belectrical data: Motor standard: Motor standard: IEC Motor type: Belefficiency class: Rated power - P2: Rated power - P2: Rated power - P2: Rated power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz	Impeller:	
AISI 304  Material code:  Code for rubber:  Bearing:  Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  25 bar / 120 °C  Type 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:  Liquid temperature range:  Liquid temperature during operation:  DN 32  Connect code:  Liquid temperature during operation:  DN 20 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor standard:  Motor type:  80B  IE Efficiency class:  Rated power - P2:  Rated power - P2:  Rated power - P2:  Rated power (P2) required by pump:  Mains frequency:  50 Hz	- Imponent	
Material code:  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:  Pilange size for motor:  Connect code:  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Density:  Electrical data:  Motor standard:  Motor type:  Rated power - P2:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  So °C  SIC  A  CO  CO  CO  CO  CO  CO  CO  CO  CO		
Code for rubber: Bearing: Installation:  Maximum ambient temperature:  Maximum operating pressure:  Max pressure at stated temp:  Size of connection:  Size of inlet connection:  Pressure rating for pipe connection:  Poward  Connect code:  Ca  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Double connection:  Poward  Connect code:  Ca  Liquid temperature during operation:  Double connection:  Double connection:  FT100  Connect code:  Ca  Liquid:  Pumped liquid:  Water  Liquid temperature during operation:  Double connection:  Double connection:  Electrical data:  Motor standard:  Motor standard:  IEC  Motor type:  Bob  IE Efficiency class:  Rated power - P2:  1.1 kW  Mains frequency:  Mains frequency:  Double connection:  SIC  VC  Connect code:  CA  Liquid:  Bob  Liquid temperature during operation:  Liquid temperature during operatio	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: FT100  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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz		
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:  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  DN 20 °C  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  BOB  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  50 °C		_
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: FT100  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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz		CiO
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:  Pressure rating for pipe connection:  PN 25  Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Uiquid temperature range:  Liquid temperature during operation:  DN 32  1 1/4 inch  PN 25  FT100  Connect code:  CA  Liquid:  Pumped liquid:  Uiquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor standard:  Motor type:  BOB  IE Efficiency class:  Rated power - P2:  1.1 kW  Mains frequency:  Motor type:  1.1 kW		50 °C.
Max pressure at stated temp:  25 bar / 120 °C  25 bar / -20 °C  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:  Liquid:  Pumped liquid:  Uiquid 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:  1.1 kW  Mains frequency:  SON 32  11/4 inch  PN 25  FT100  CA  Liquid temperature  CA  Uiquid:  Vwater  Liquid temperature during operation:  20 °C  Density:  BOB  IEC  Notor type:  1.1 kW  Mains frequency:  SON Hz		
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:  Uiquid 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:  NN 32  1 1/4 inch  PN 25  FT100  CA  UA  UA  UA  UA  VA  VA  VA  VA  VA  V		
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:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  BOB  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  1.1 kW  Mains frequency:  Model Size Clamp  Model Size Clamp  Model Size Clamp  Model Size Clamp  1 1/4 inch  Not 25  CA  Liquid inch  PN 25  FT100  CA  Liquid:  POWer (P2) required by pump:  1.1 kW  Mains frequency:  Size Clamp  Model Size  FIExiClamp  Size Clamp  1 1/4 inch  Note Size  1 1/4 inch  Note Siz	wax pressure 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:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  Rated power - P2:  Power (P2) required by pump:  1 1,1 kW  Mains frequency:  Motor standard:  Motor type:  1 1,1 kW  Mains frequency:  DN 32  1 1/4 inch  Nate  Nate  1 1,1 kW  Nate  1 1,1 kW  Mains frequency:  DN 32  1 1,1 kW	Type of connection:	
Size of outlet connection:  DN 32  1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT100  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: BOB  IE Efficiency class: Rated power - P2: Power (P2) required by pump: 1.1 kW  Mains frequency:  SOME  1 1 1/4 inch  Nate  Nate  1 1 1/4 inch  Nate  1 20  C  A  BOB  BE  BE  BE  BE  BE  BE  BE  BE  B	- ' '	
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: Uquid temperature range: Liquid temperature during operation: Density: Density: P98.2 kg/m³  Electrical data: Motor standard: Motor type: BOB  IE Efficiency class: Rated power - P2: Power (P2) required by pump: Mains frequency:  DN 32  1 1/4 inch  Nate  1 100  1 100  1 100  1 1 1 1 1 1 1 1 1	Size of fillet conflection.	
1 1/4 inch  Pressure rating for pipe connection: PN 25  Flange size for motor: FT100  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: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz	Size of outlet connection:	
Pressure rating for pipe connection: PN 25 Flange size for motor: FT100 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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz	Size of outlet confidention.	
Flange size for motor:  Connect code:  CA  Liquid:  Pumped liquid:  Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  BoB  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Motor type:  Mains frequency:  FT100  CA  EA  Water  Liquid temperature during  998.2 kg/m³  EleC  BoB  IEC  Motor type:  1.1 kW  Mains frequency:  50 Hz	Proceure rating for nine connection:	
Connect code:  Liquid: Pumped liquid: Uiquid temperature range: Liquid temperature during operation: Density: Pelectrical data: Motor standard: Motor type: BE Efficiency class: Rated power - P2: Power (P2) required by pump:  Liquid temperature auring operation: 20 °C 998.2 kg/m³  EIEC  Motor type: BOB  IEC  1.1 kW  Mains frequency: 50 Hz		
Liquid:Pumped liquid:WaterLiquid temperature range:-20 120 °CLiquid temperature during operation:20 °CDensity:998.2 kg/m³Electrical data:IECMotor standard:IECMotor type:80BIE Efficiency class:IE5Rated power - P2:1.1 kWPower (P2) required by pump:1.1 kWMains frequency:50 Hz		
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: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		CA
Liquid temperature range:  Liquid temperature during operation:  Density:  998.2 kg/m³  Electrical data:  Motor standard:  Motor type:  BoB  IE Efficiency class:  Rated power - P2:  Power (P2) required by pump:  Mains frequency:  1.1 kW  Mains frequency:  50 Hz		\\/ata#
Liquid temperature during operation: 20 °C  Density: 998.2 kg/m³  Electrical data:  Motor standard: IEC  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz		
Density:         998.2 kg/m³           Electrical data:         IEC           Motor standard:         80B           IE Efficiency class:         IE5           Rated power - P2:         1.1 kW           Power (P2) required by pump:         1.1 kW           Mains frequency:         50 Hz	, ,	
Electrical data:           Motor standard:         IEC           Motor type:         80B           IE Efficiency class:         IE5           Rated power - P2:         1.1 kW           Power (P2) required by pump:         1.1 kW           Mains frequency:         50 Hz		
Motor standard: IEC  Motor type: 80B  IE Efficiency class: IE5  Rated power - P2: 1.1 kW  Power (P2) required by pump: 1.1 kW  Mains frequency: 50 Hz		ყყგ.∠ kg/m³
Motor type: 80B IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		150
IE Efficiency class: IE5 Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
Rated power - P2: 1.1 kW Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
Power (P2) required by pump: 1.1 kW Mains frequency: 50 Hz		
Mains frequency: 50 Hz	·	
Rated voltage: 3 x 380-500 V		
	Rated voltage:	3 x 380-500 V









**Date:** 19/03/2019

Description	Value
Rated current:	2.20-1.90 A
Cos phi - power factor:	0.89-0.79
Rated speed:	360-4000 rpm
Efficiency:	89.1%
Motor efficiency at full load:	89.1 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	YES
Motor No:	98190219
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.57
Net weight:	24.3 kg
Gross weight:	27.2 kg
Shipping volume:	0.143 m³
Country of origin:	GB
Custom tariff no.:	84137075



**Date:** 19/03/2019

# 98390068 CRIE 5-4 A-CA-A-E-HQQE 50 Hz

