

Date: 12/03/2019

Qty. | Description

1 | CRN 90-5-2 A-F-H-E-HQQE



Product No.: 96536560

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade 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 DIN flanges.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water
Liquid temperature range: -40 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2957 rpm

Rated flow: 90 m³/h
Rated head: 98.6 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 1.4401 AISI 316

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 55 °C Maximum operating pressure: 30 bar

Max pressure at stated temp: 30 bar / 120 °C

30 bar / -40 °C

Type of connection:

Size of inlet connection:

DN 100

Size of outlet connection:

DN 100

Pressure rating for pipe connection:

PN 40

Flange size for motor:

FF350



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Electrical data:

Motor standard: IEC
Motor type: SIEMENS
IE Efficiency class: IE3
Rated power - P2: 37 kW
Power (P2) required by pump: 37 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-420D/660-725Y V Rated current: 68,0-63,0/39,0-36,0 A

Starting current: 670-670 %

Cos phi - power factor: 0.88

Rated speed: 2955 rpm

Efficiency: IE3 93,7%

Motor efficiency at full load: 93.7-93.7 %

Motor efficiency at 3/4 load: 93.9-93.9 %

Motor efficiency at 1/2 load: 93.5-93.5 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

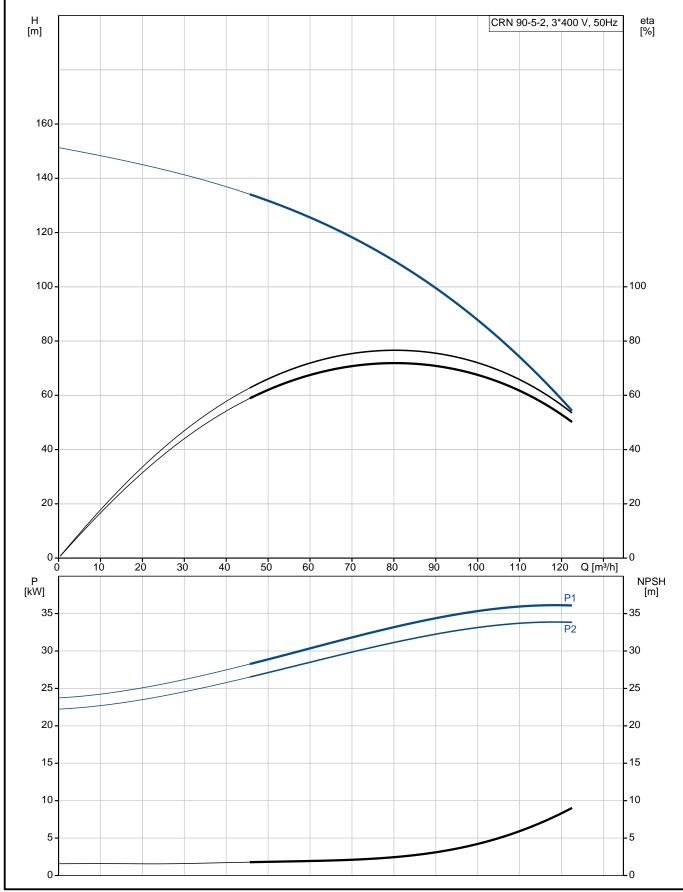
Others

Minimum efficiency index, MEI ≥: 0.70
Net weight: 353 kg
Gross weight: 392 kg
Shipping volume: 0.805 m³



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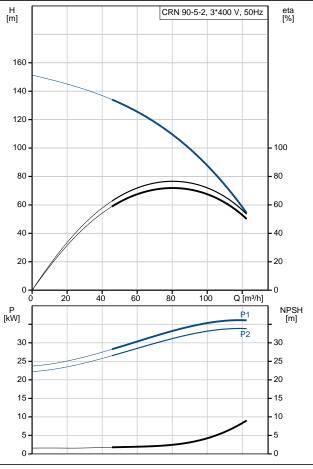
96536560 CRN 90-5-2 A-F-H-E-HQQE 50 Hz

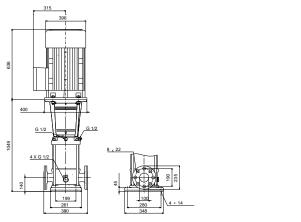


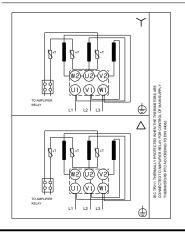


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Description	Value
General information:	
Product name:	CRN 90-5-2 A-F-H-E-HQQE
Product No:	96536560
EAN number:	5700397575185
Technical:	0.0000.0.0.0
Pump speed on which pump data are	
based:	2957 rpm
Rated flow:	90 m³/h
Rated head:	98.6 m
Head max:	149.9 m
Stages:	5
Impellers:	5
Number of reduced-diameter impellers:	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:	A
Model:	В
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
F	EN 1.4401
	AISI 316
Material code:	Н
Code for rubber:	E
Bearing:	SIC
	310
	Graflon
Support bearing:	~ . ~
Support bearing: Installation:	Graflon
Support bearing: Installation: Maximum ambient temperature:	Graflon 55 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	Graflon 55 °C 30 bar
Support bearing: Installation: Maximum ambient temperature:	Graflon 55 °C 30 bar 30 bar / 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 37 kW
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 37 kW
Support bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp: Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	Graflon 55 °C 30 bar 30 bar / 120 °C 30 bar / -40 °C DIN DN 100 DN 100 PN 40 FF350 F Water -40 120 °C 20 °C 998.2 kg/m³ IEC SIEMENS IE3 37 kW 37 kW









Date: 12/03/2019

Description	Value
Starting current:	670-670 %
Cos phi - power factor:	0.88
Rated speed:	2955 rpm
Efficiency:	IE3 93,7%
Motor efficiency at full load:	93.7-93.7 %
Motor efficiency at 3/4 load:	93.9-93.9 %
Motor efficiency at 1/2 load:	93.5-93.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15334
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	353 kg
Gross weight:	392 kg
Shipping volume:	0.805 m ³
Sales region:	Great Britain