

Date: 13/09/2018

**Position** Description Qty.

> 1 CRI 3-10 A-CA-I-V-HQQV



Product No.: 96516751

Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling and easy service and access. Power transmission is via a rigid split coupling. Pipework connection is via FlexiClamps.

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

Liquid:

Pumped liquid: Water Liquid temperature range: -20 .. 90 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m<sup>3</sup>

Technical:

Rated flow: 3 m<sup>3</sup>/h Rated head: 46.4 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CE, EAC

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: 60 °C 25 bar Maximum operating pressure:

25 bar / 90 °C Max pressure at stated temp:

25 bar / -20 °C

Type of connection: FlexiClamp Size of inlet connection: **DN 32** 1 1/4 inch

**DN 32** 

1 1/4 inch

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

**Electrical data:** 

Size of outlet connection:

**IEC** Motor standard:



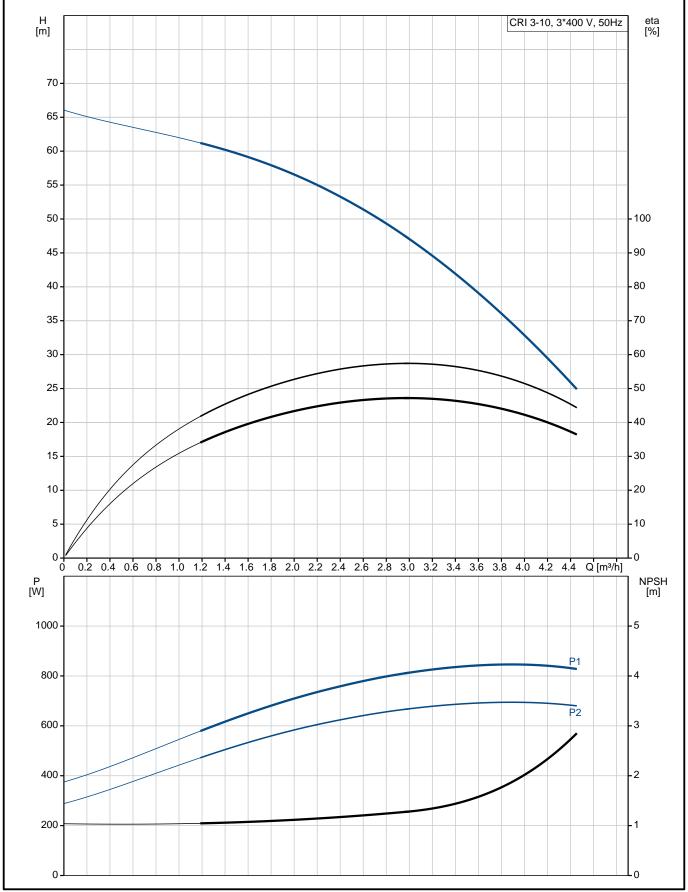
**Date:** 13/09/2018

Motor type:   80A				_ = = = = = = = = = = = = = = = = = = =
IE Efficiency class: Rated power - P2: 0.75 kW	Position	Qty.	Description	
IE Efficiency class: Rated power - P2: 0.75 kW				80A
Rated power - P2:				
Power (P2) required by pump: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-240D/380-415Y V Rated current: 3.30/1.90 A Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: 2840-2870 rpm Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI : 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Mains frequency: Rated voltage: Rated current: 3.30/1.90 A Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: Efficiency: Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):  Controls: Frequency converter:  Minimum efficiency index, MEI Gross weight: Shipping volume: Country of origin:  Max 220-240D/380-415Y V  3 x 220-240D/380-415Y V  4 x 240-2870 rpm  Efficiency in 280,7%  Now Path Starting in 280,7%  Now P				
Rated voltage: 3 x 220-240D/380-415Y V Rated current: 3.30/1.90 A Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: 2840-2870 rpm Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Rated current: 3.30/1.90 A Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: 2840-2870 rpm Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Starting current: 580-620 % Cos phi - power factor: 0.81-0.71 Rated speed: 2840-2870 rpm Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI : 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				3 x 220-240D/380-415Y V
Cos phi - power factor: Rated speed: Efficiency: IE3 80,7% Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):  Controls: Frequency converter: Minimum efficiency index, MEI: Minimum efficiency index, MEI: Gross weight: Shipping volume: Country of origin:  0.81-0.71  8240-2870 rpm IE3 80,7%  80.7 %  81.			Rated current:	3.30/1.90 A
Cos phi - power factor: Rated speed: Efficiency: IE3 80,7% Motor efficiency at full load: Motor efficiency at 3/4 load: Motor efficiency at 1/2 load: Number of poles: Enclosure class (IEC 34-5): Insulation class (IEC 85):  Controls: Frequency converter: Minimum efficiency index, MEI: Minimum efficiency index, MEI: Gross weight: Shipping volume: Country of origin:  0.81-0.71  8240-2870 rpm IE3 80,7%  80.7 %  81.			Starting current:	580-620 %
Rated speed: 2840-2870 rpm  Efficiency: IE3 80,7%  Motor efficiency at full load: 80.7 %  Motor efficiency at 3/4 load: 82.7 %  Motor efficiency at 1/2 load: 81.7 %  Number of poles: 2  Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F   Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Efficiency: IE3 80,7% Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Motor efficiency at full load: 80.7 % Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Motor efficiency at 3/4 load: 82.7 % Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Motor efficiency at 1/2 load: 81.7 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				2
Insulation class (IEC 85): F  Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB			Enclosure class (IEC 34-5):	55 Dust/Jetting
Controls: Frequency converter: NONE  Others: Minimum efficiency index, MEI: 0.7 Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB			Insulation class (IEC 85):	
Frequency converter: NONE  Others:  Minimum efficiency index, MEI: 0.7  Net weight: 22.6 kg  Gross weight: 25.4 kg  Shipping volume: 0.074 m³  Country of origin: GB				
Others:  Minimum efficiency index, MEI: 0.7  Net weight: 22.6 kg  Gross weight: 25.4 kg  Shipping volume: 0.074 m³  Country of origin: GB				NONE
Minimum efficiency index, MEI : 0.7  Net weight: 22.6 kg  Gross weight: 25.4 kg  Shipping volume: 0.074 m³  Country of origin: GB			Frequency conventer.	NONE
Net weight: 22.6 kg Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Gross weight: 25.4 kg Shipping volume: 0.074 m³ Country of origin: GB				
Shipping volume: 0.074 m³ Country of origin: GB				
Country of origin: GB			Gross weight:	25.4 kg
Country of origin: GB			Shipping volume:	$0.074 \text{ m}^3$
				GB



**Date:** 13/09/2018

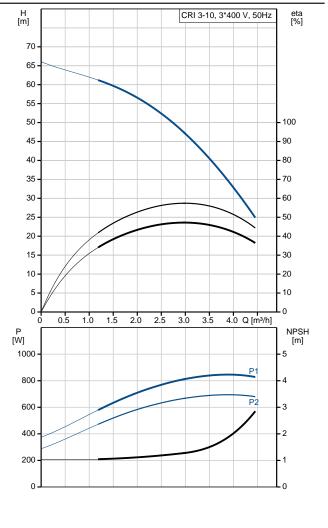
## 96516751 CRI 3-10 A-CA-I-V-HQQV 50 Hz





**Date:** 13/09/2018

Description	Value
General information:	
Product name:	CRI 3-10 A-CA-I-V-HQQV
Product No:	96516751
EAN number:	5700396749266
Price:	905,00 GBP
Technical:	
Rated flow:	3 m³/h
Rated head:	46.4 m
Stages:	10
Impellers:	10
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CE, EAC
· · ·	ISO9906:2012 3B
Curve tolerance:	
Pump version:	A
Model:	A
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	I
Code for rubber:	V
Bearing:	SIC
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	25 bar
Max pressure at stated temp:	25 bar / 90 °C
	25 bar / -20 °C
Type of connection:	FlexiClamp
Size of inlet connection:	DN 32
0.20 001 00	1 1/4 inch
Size of outlet connection:	DN 32
Olzo of oduct confidence.	1 1/4 inch
Pressure rating for pipe connection:	PN 25
Flange size for motor:	FT100
Connect code:	CA
	CA
Liquid:	\M4
Pumped liquid:	Water
Liquid temperature range:	-20 90 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	80A
IE Efficiency class:	IE3
Rated power - P2:	0.75 kW
Power (P2) required by pump:	0.75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-240D/380-415Y V
Rated current:	3.30/1.90 A
Starting current:	580-620 %
Cos phi - power factor:	0.81-0.71
Rated speed:	2840-2870 rpm





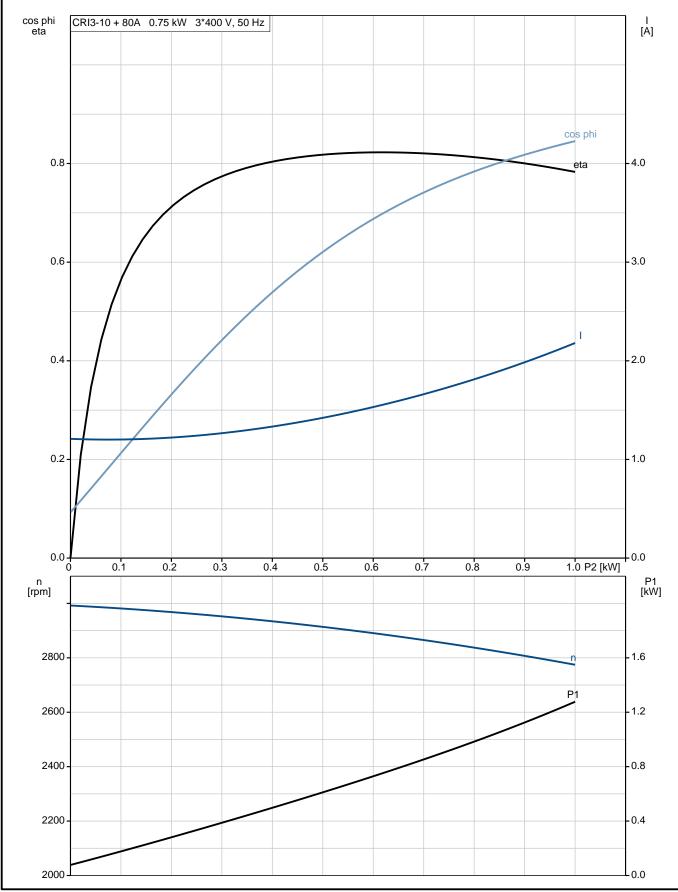
**Date:** 13/09/2018

Description	Value
Efficiency:	IE3 80,7%
Motor efficiency at full load:	80.7 %
Motor efficiency at 3/4 load:	82.7 %
Motor efficiency at 1/2 load:	81.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85U05104
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	22.6 kg
Gross weight:	25.4 kg
Shipping volume:	0.074 m³
Country of origin:	GB
Custom tariff no.:	84137075



**Date:** 13/09/2018

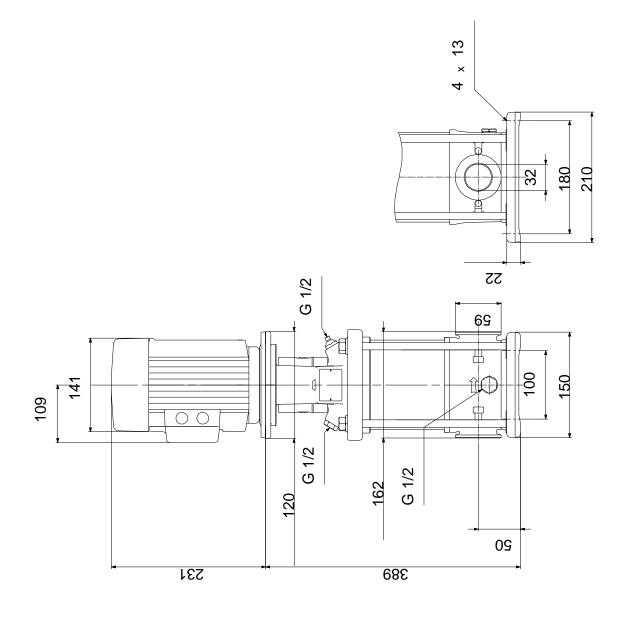
## 96516751 CRI 3-10 A-CA-I-V-HQQV 50 Hz





Date: 13/09/2018

## 96516751 CRI 3-10 A-CA-I-V-HQQV 50 Hz



Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

13/09/2018

## 96516751 CRI 3-10 A-CA-I-V-HQQV 50 Hz

