

**Date:** 12/09/2018

Position | Qty. | Description

1 CR 45-5 A-F-A-V-HQQV



Product No.: 96122830

Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. The pump head and base are in cast iron – all other wetted parts 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 DIN flanges.

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/m³

Technical:

Rated flow: 45 m³/h
Rated head: 100.4 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: Cast iron

EN 1563 EN-GJS-500-7 ASTM A536 80-55-06

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 90 °C

16 bar / -20 °C

Type of connection: DIN
Size of inlet connection: DN 80
Size of outlet connection: DN 80
Pressure rating for pipe connection: PN 40
Flange size for motor: FF300

Electrical data:

Motor standard: IEC



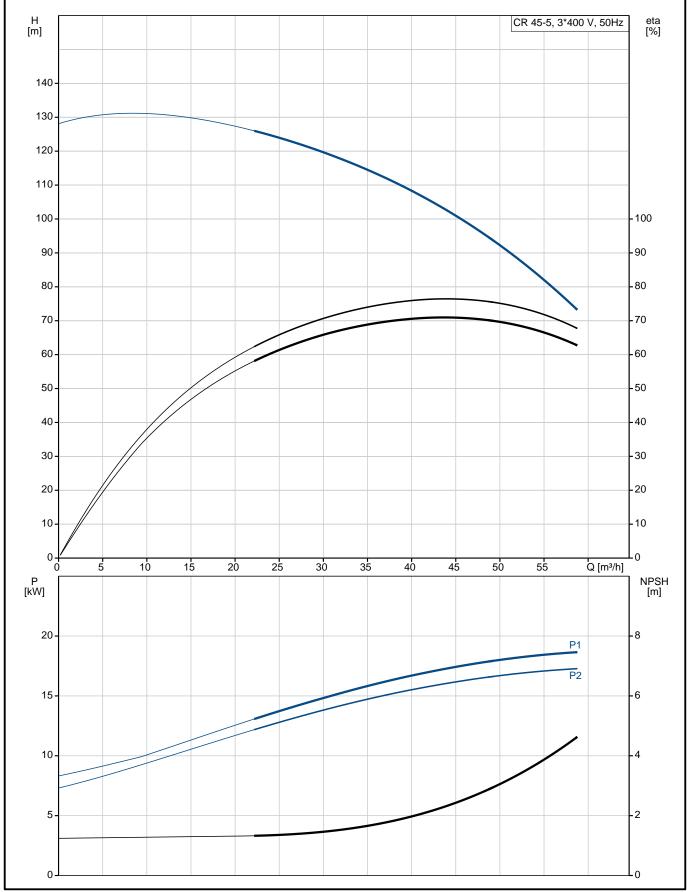
**Date:** 12/09/2018

Position	Qty.	Description		
		Motor type:	160LB	
		IE Efficiency class:	IE3	
		Rated power - P2:	18.5 kW	
		Power (P2) required by pump:	18.5 kW	
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-415D/660-690Y V	
		Rated current:	34,5-32,5/20,0-18,8 A	
		Starting current:	830-980 %	
		Cos phi - power factor:	0.89-0.85	
		Rated speed:	2940-2950 rpm	
		Efficiency:	IE3 92,4%	
		Motor efficiency at full load:	92.4-92.4 %	
		Motor efficiency at 3/4 load:	93.2 %	
		Motor efficiency at 1/2 load:		
			93.2 %	
		Number of poles:	2 55 D :://www.	
		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:	195 kg	
		Gross weight:	228 kg	
		Shipping volume:	0.495 m <sup>3</sup>	
		Country of origin:	GB	
		Custom tariff no.:	84137075	
		Custom tarm no	04137073	
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**Date:** 12/09/2018

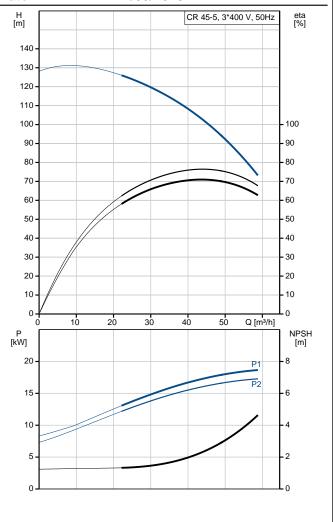
## 96122830 CR 45-5 A-F-A-V-HQQV 50 Hz





**Date:** 12/09/2018

Description	Value
General information:	
Product name:	CR 45-5 A-F-A-V-HQQV
Product No:	96122830
EAN number:	5700396688749
Price:	6.435,00 GBP
Technical:	
Rated flow:	45 m³/h
Rated head:	100.4 m
Stages:	5
Impellers:	5
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQV
Approvals on nameplate:	CE, EAC
Curve tolerance:	ISO9906:2012 3B
Pump version:	Α
Model:	В
Materials:	
Base:	Cast iron
	EN 1563 EN-GJS-500-7
	ASTM A536 80-55-06
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Material code:	Α
Code for rubber:	V
Bearing:	SIC
Support bearing:	Graflon
Installation:	
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 90 °C
	16 bar / -20 °C
Type of connection:	DIN
Size of inlet connection:	DN 80
Size of outlet connection:	DN 80
Pressure rating for pipe connection:	PN 40
Flange size for motor:	FF300
Connect code:	F
Liquid:	
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:	160LB
IE Efficiency class:	IE3
Rated power - P2:	18.5 kW
Power (P2) required by pump:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	34,5-32,5/20,0-18,8 A
Starting current:	830-980 %
Cos phi - power factor:	0.89-0.85
Rated speed:	2940-2950 rpm
Efficiency:	IE3 92,4%





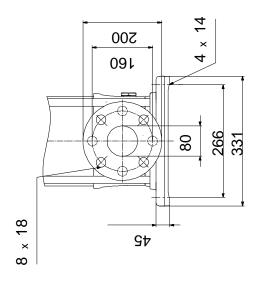
**Date:** 12/09/2018

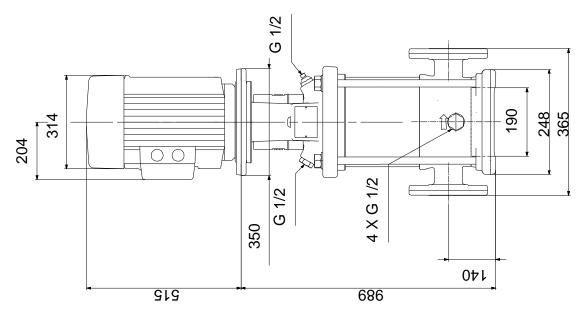
Description	Value
Motor efficiency at full load:	92.4-92.4 %
Motor efficiency at 3/4 load:	93.2 %
Motor efficiency at 1/2 load:	93.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17528
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI:	0.7
Net weight:	195 kg
Gross weight:	228 kg
Shipping volume:	0.495 m³
Country of origin:	GB
Custom tariff no.:	84137075



Date: 12/09/2018

## 96122830 CR 45-5 A-F-A-V-HQQV 50 Hz



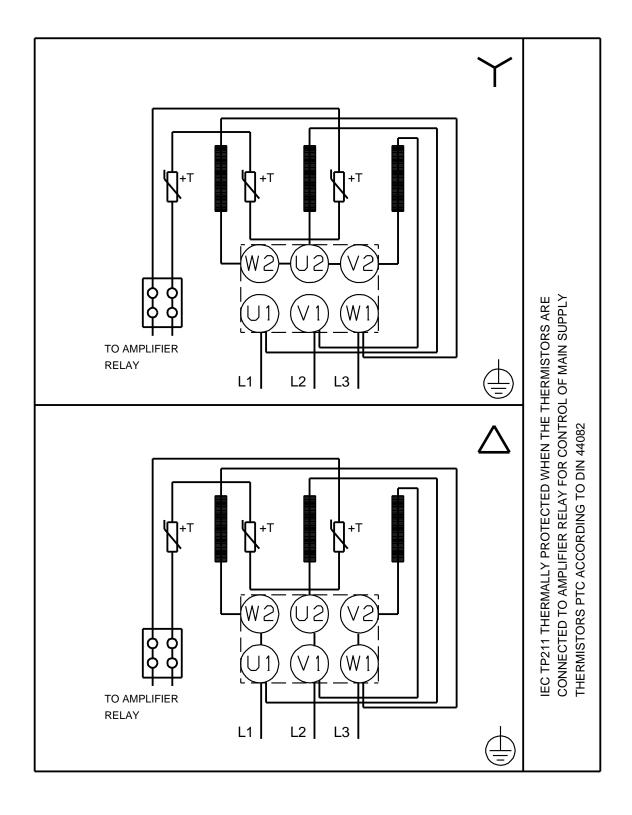


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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## 96122830 CR 45-5 A-F-A-V-HQQV 50 Hz



Note! All units are in [mm] unless others are stated.