

Date: 12/09/2018

Position Description Qty.

> 1 CR 45-3-2 A-F-A-V-HQQV



Product No.: 96122825

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 -20 .. 90 °C Liquid temperature range: Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

Technical:

Rated flow: 45 m³/h Rated head: 51.9 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**



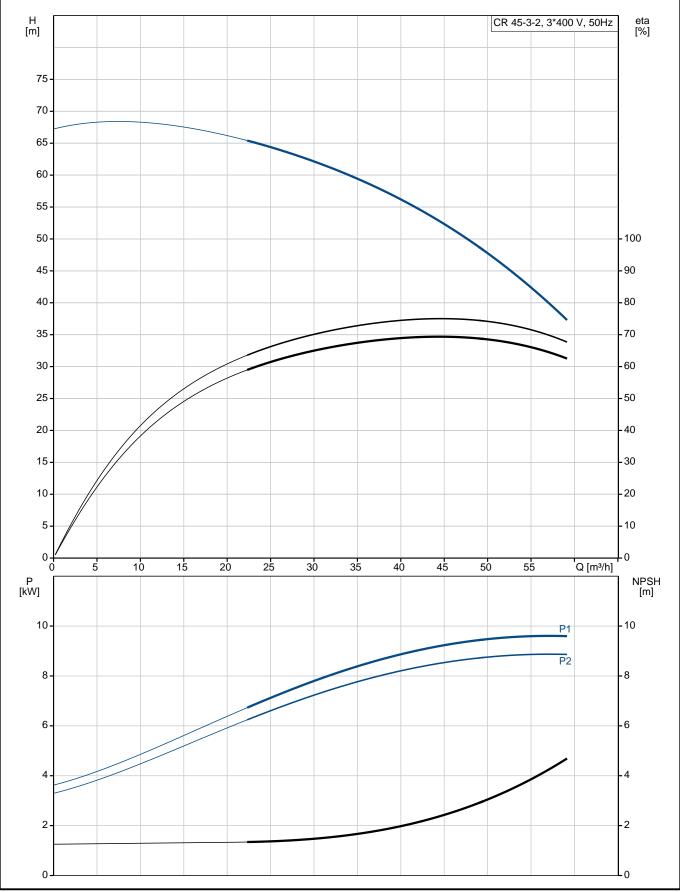
Date: 12/09/2018

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Position	Qty.	Description		
		Motor type:	160MB	
		IE Efficiency class:	IE3	
		Rated power - P2:	11 kW	
		Power (P2) required by pump:	11 kW	
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-415D/660-690Y V	
		Rated current:	20,8-19,8/12,0-11,8 A	
		Starting current:	660-780 %	
		Cos phi - power factor:	0.88-0.84	
		Rated speed:	2940-2950 rpm	
		Efficiency:	IE3 91,2%	
		Motor efficiency at full load:	91.2-91.2 %	
		Motor efficiency at 3/4 load:	91.8 %	
		Motor efficiency at 1/2 load:	91.3 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		modiation diago (120 co).	•	
		Controls:		
		Frequency converter:	NONE	
		04.555		
		Others:	0.7	
		Minimum efficiency index, MEI		
		Net weight:	163 kg	
		Gross weight:	196 kg	
		Shipping volume:	0.495 m³	
		Country of origin:	GB	
		Custom tariff no.:	84137075	



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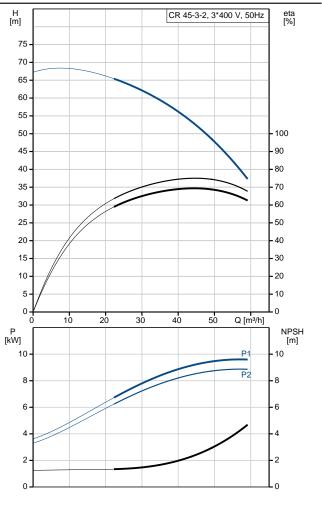
96122825 CR 45-3-2 A-F-A-V-HQQV 50 Hz





Date: 12/09/2018

Description	Value
General information:	
Product name:	CR 45-3-2 A-F-A-V-HQQV
Product No:	96122825
EAN number:	5700396688695
Price:	4.367,00 GBP
Technical:	
Rated flow:	45 m³/h
Rated head:	51.9 m
Stages:	3
Impellers:	3
impeliers.	3
Number of reduced-diameter impellers:	2
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:	A
Model:	В
Materials:	
Base:	Cast iron
Dase.	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
	Г
Liquid:	NA
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:	160MB
IE Efficiency class:	IE3
Rated power - P2:	11 kW
Power (P2) required by pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	20,8-19,8/12,0-11,8 A
Starting current:	660-780 %
	0.88-0.84
Cos phi - power factor:	0.00-0.04





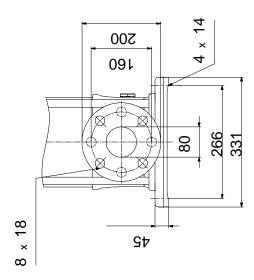
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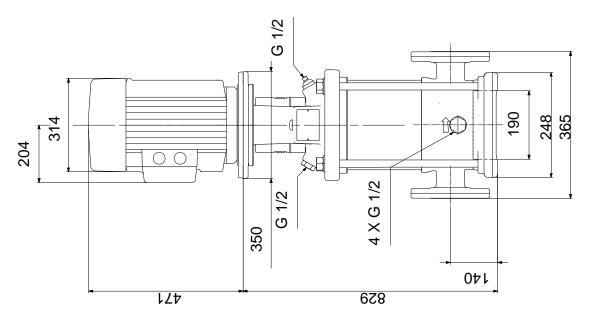
Description	Value
Rated speed:	2940-2950 rpm
Efficiency:	IE3 91,2%
Motor efficiency at full load:	91.2-91.2 %
Motor efficiency at 3/4 load:	91.8 %
Motor efficiency at 1/2 load:	91.3 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17524
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	163 kg
Gross weight:	196 kg
Shipping volume:	0.495 m³
Country of origin:	GB
Custom tariff no.:	84137075



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96122825 CR 45-3-2 A-F-A-V-HQQV 50 Hz



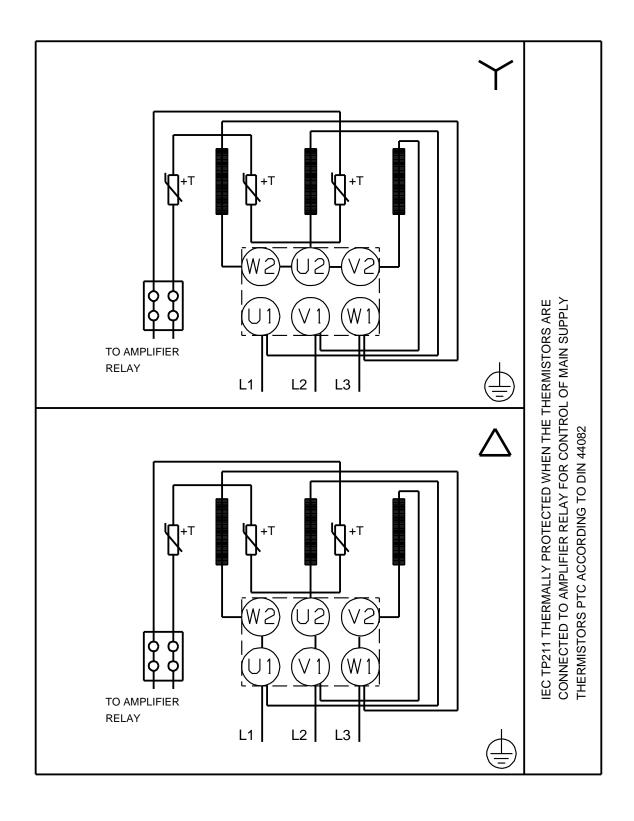


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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