

Date: 12/09/2018

Position | Qty. | Description

1 CR 45-12-2 A-F-A-V-HQQV



Product No.: 96122843

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: 242.1 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: 55 °C Maximum operating pressure: 33 bar

Max pressure at stated temp: 33 bar / 90 °C

33 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: FF400

Electrical data:

Motor standard: IEC



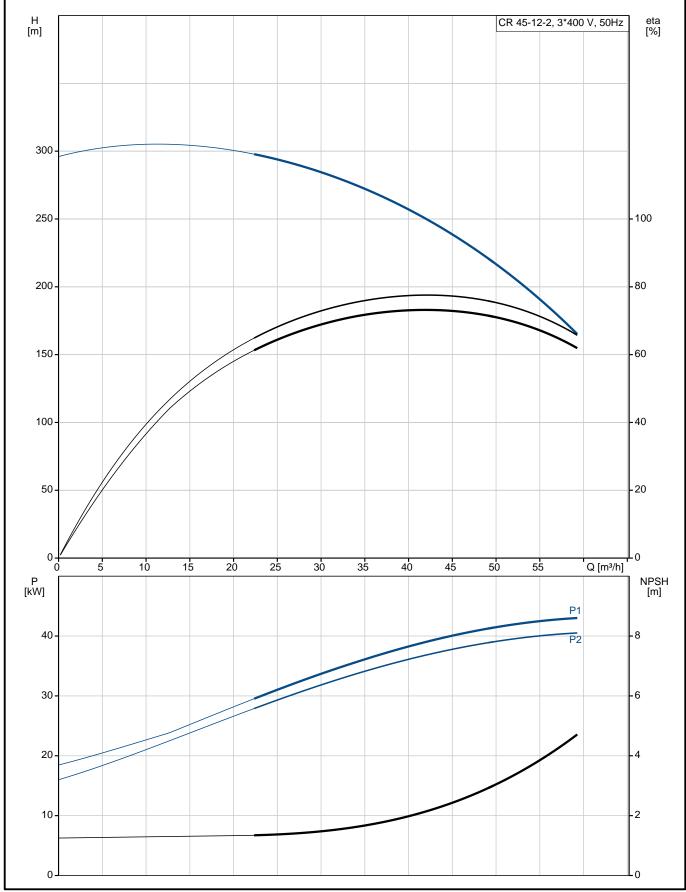
Date: 12/09/2018

			Date:	12/09/2018
Position	Qty.	Description		
		Motor type:	SIEMENS	
		IE Efficiency class:	IE3	
		Rated power - P2:	45 kW	
		Power (P2) required by pump:		
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-420D/660-725Y V	
		Rated current:	81,0-74,0/47,0-43,0 A	
		Starting current:	690-690 %	
		Cos phi - power factor:	0.89	
		Rated speed:	2960 rpm	
		Efficiency:	IE3 94,0%	
		Motor efficiency at full load:	94.0-94.0 %	
		Motor efficiency at 3/4 load:	94.5-94.5 %	
		Motor efficiency at 1/2 load:	94.4-94.4 %	
		Number of poles:	2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
		Controls:		
		Frequency converter:	NONE	
		Othoro		
		Others: Minimum efficiency index, MEI	. 0.7	
		Net weight:	460 kg	
		Gross weight:	562 kg	
		Shipping volume:	1.24 m ³	
		Country of origin:	GB	
		Custom tariff no.:	84137075	



Date: 12/09/2018

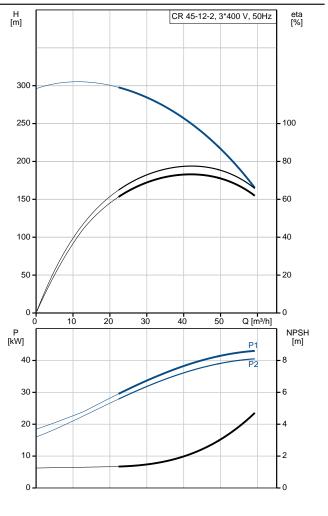
96122843 CR 45-12-2 A-F-A-V-HQQV 50 Hz





Date: 12/09/2018

Description	Value
Description General information:	Value
Product name:	CR 45-12-2 A-F-A-V-HQQV
Product No:	96122843
EAN number:	
	5700396688879
Technical:	4F 3/l-
Rated flow:	45 m³/h
Rated head:	242.1 m
Stages:	12
Impellers:	12
Number of reduced-diameter	2
impellers: Low NPSH:	N
	Vertical
Pump orientation: 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:	0 1:
Base:	Cast iron
	EN 1563 EN-GJS-500-7
- <u>.</u>	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:	55 °C
Maximum operating pressure:	33 bar
Max pressure at stated temp:	33 bar / 90 °C
	33 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:	FF400
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:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	45 kW
Power (P2) required by pump:	45 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	81,0-74,0/47,0-43,0 A
	690-690 %
Starting current:	030-030 /0
Starting current: Cos phi - power factor:	0.89
Starting current: Cos phi - power factor: Rated speed:	





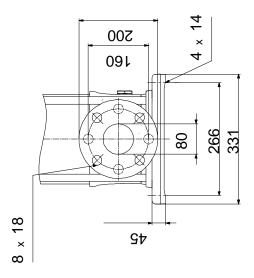
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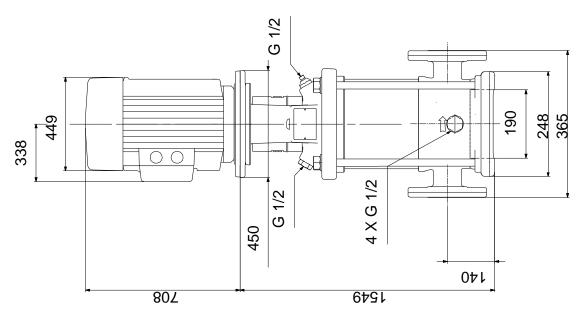
Description	Value
Efficiency:	IE3 94,0%
Motor efficiency at full load:	94.0-94.0 %
Motor efficiency at 3/4 load:	94.5-94.5 %
Motor efficiency at 1/2 load:	94.4-94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15336
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI:	0.7
Net weight:	460 kg
Gross weight:	562 kg
Shipping volume:	1.24 m³
Country of origin:	GB
Custom tariff no.:	84137075



Date: 12/09/2018

96122843 CR 45-12-2 A-F-A-V-HQQV 50 Hz



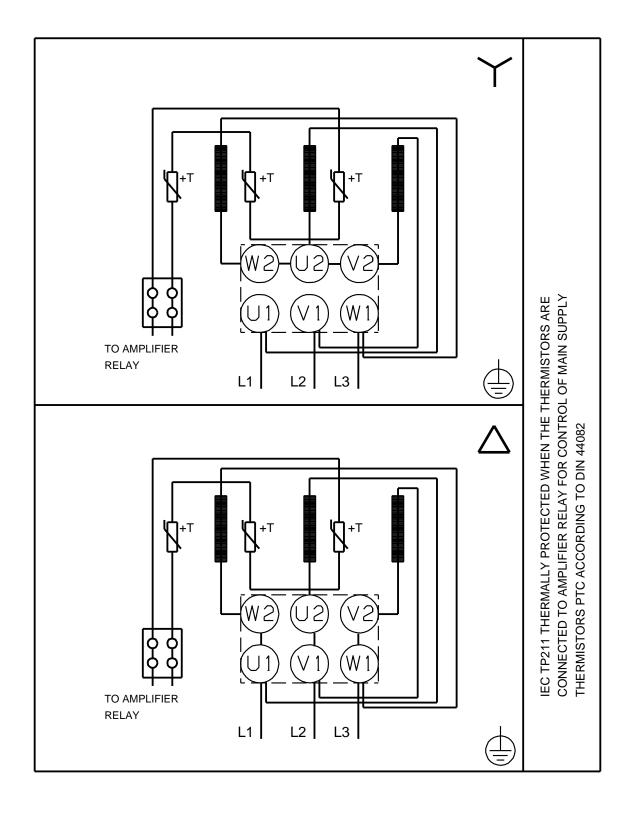


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



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96122843 CR 45-12-2 A-F-A-V-HQQV 50 Hz



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