



Company name:

Created by:

Phone:

Date:

03/07/2018

Position	Qty.	Description
1	CRN 45-7 A-F-GI-E-HQQE	 <p>Product No.: 96536460</p> <p>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 high-grade 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.</p> <p>The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -40 .. 120 °C</p> <p>Liquid temperature during operation: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Rated flow: 45 m³/h</p> <p>Rated head: 143.9 m</p> <p>Pump orientation: Vertical</p> <p>Shaft seal arrangement: Single</p> <p>Code for shaft seal: HQQE</p> <p>Approvals on nameplate: CE, EAC, ACS</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Base: Stainless steel EN 1.4408 AISI 316</p> <p>Impeller: Stainless steel EN 1.4401 AISI 316</p> <p>Bearing: SIC</p> <p>Support bearing: Grafton</p> <p>Installation:</p> <p>Maximum ambient temperature: 55 °C</p> <p>Maximum operating pressure: 30 bar</p> <p>Max pressure at stated temp: 30 bar / 120 °C 30 bar / -40 °C</p> <p>Type of connection: DIN</p> <p>Size of inlet connection: DN 80</p> <p>Size of outlet connection: DN 80</p> <p>Pressure rating for pipe connection: PN 40</p> <p>Flange size for motor: FF350</p> <p>Electrical data:</p> <p>Motor standard: IEC</p>



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Position	Qty.	Description
		Motor type: SIEMENS IE Efficiency class: IE3 Rated power - P2: 30 kW Power (P2) required by pump: 30 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 56,0-51,0/32,0-29,5 A Starting current: 660-660 % Cos phi - power factor: 0.86 Rated speed: 2955 rpm Efficiency: IE3 93,3% Motor efficiency at full load: 93.3-93.3 % Motor efficiency at 3/4 load: 93.6-93.6 % Motor efficiency at 1/2 load: 93.4-93.4 % 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: 338 kg Gross weight: 377 kg Shipping volume: 0.805 m ³ Country of origin: GB Custom tariff no.: 84137075



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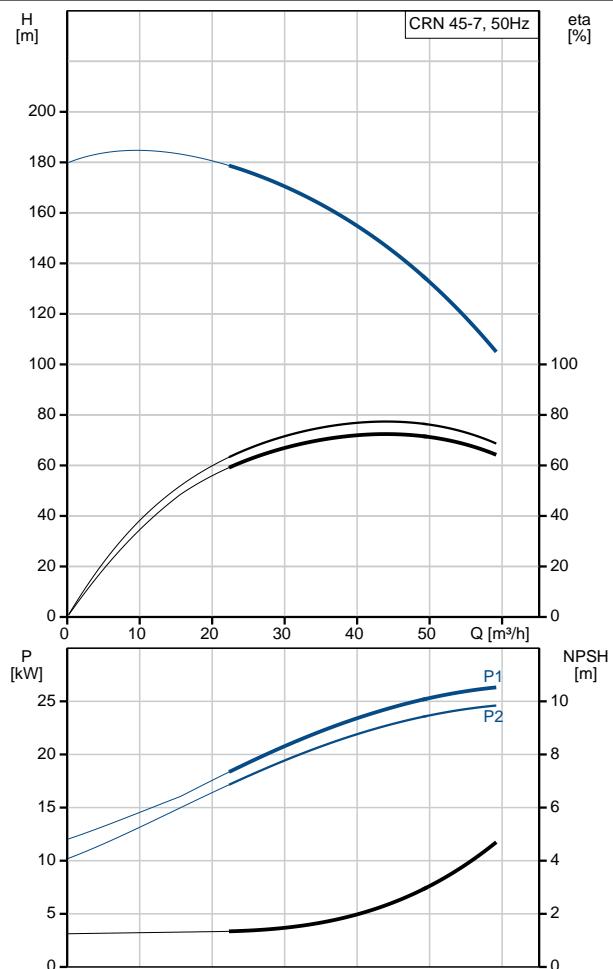
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Description	Value
General information:	
Product name:	CRN 45-7 A-F-GI-E-HQQE
Product No:	96536460
EAN number:	5700397572108
Technical:	
Rated flow:	45 m ³ /h
Rated head:	143.9 m
Stages:	7
Impellers:	7
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	B
Materials:	
Base:	Stainless steel EN 1.4408
	AISI 316
Impeller:	Stainless steel EN 1.4401
	AISI 316
Material code:	GI
Code for rubber:	E
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:	DIN
Connect code:	F
Size of inlet connection:	DN 80
Size of outlet connection:	DN 80
Pressure rating for pipe connection:	PN 40
Flange size for motor:	FF350
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-40 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor standard:	IEC
Motor type:	SIEMENS
IE Efficiency class:	IE3
Rated power - P2:	30 kW
Power (P2) required by pump:	30 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	56,0-51,0/32,0-29,5 A
Starting current:	660-660 %
Cos phi - power factor:	0.86
Rated speed:	2955 rpm
Efficiency:	IE3 93,3%
Motor efficiency at full load:	93,3-93,3 %





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Description	Value
Motor efficiency at 3/4 load:	93.6-93.6 %
Motor efficiency at 1/2 load:	93.4-93.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15332
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI :	0.7
Net weight:	338 kg
Gross weight:	377 kg
Shipping volume:	0.805 m ³
Sales region:	Great Britain
Country of origin:	GB
Custom tariff no.:	84137075