
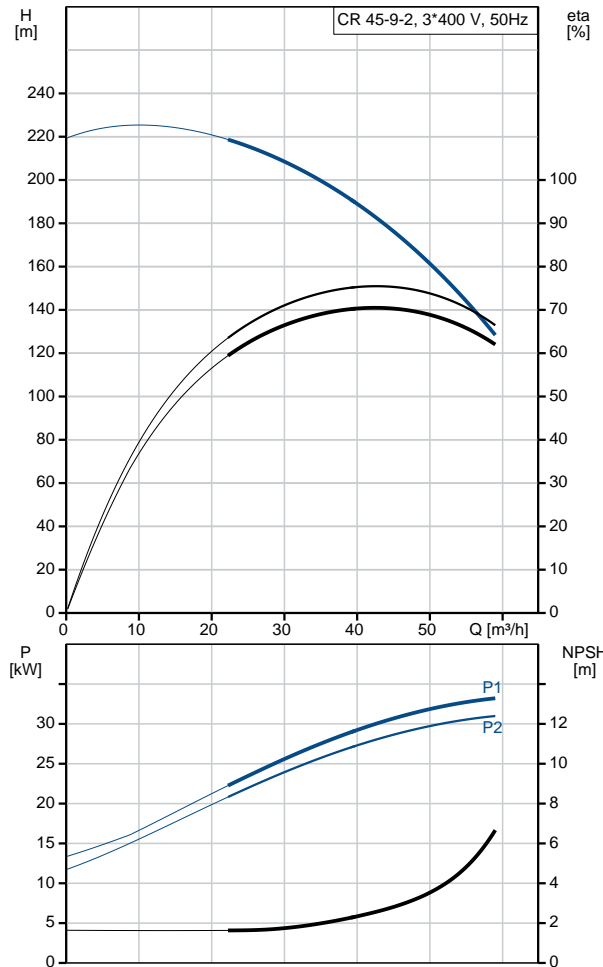


Qty.	Description
1	<p data-bbox="199 338 491 367">CR 45-9-2A-F-A-V-HQQV</p> <div data-bbox="363 405 456 846" style="text-align: center;">  </div> <p data-bbox="592 846 1075 873" style="text-align: center;">Note! Product picture may differ from actual product</p> <p data-bbox="199 880 467 907">Product No.: 96122837</p> <p data-bbox="199 938 1455 1041">Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). 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 access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges.</p> <p data-bbox="199 1081 935 1108">The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p data-bbox="199 1140 316 1167">Controls:</p> <p data-bbox="199 1169 638 1196">Frequency converter: NONE</p> <p data-bbox="199 1229 288 1256">Liquid:</p> <p data-bbox="199 1258 635 1285">Pumped liquid: Water</p> <p data-bbox="199 1288 692 1314">Liquid temperature range: -20 .. 90 °C</p> <p data-bbox="199 1317 632 1344">Selected liquid temperature: 20 °C</p> <p data-bbox="199 1346 777 1373">Density at selected liquid temperature: 998.2 kg/m³</p> <p data-bbox="199 1406 327 1433">Technical:</p> <p data-bbox="199 1435 820 1462">Pump speed on which pump data are based: 2951 rpm</p> <p data-bbox="199 1464 651 1491">Rated flow: 45 m³/h</p> <p data-bbox="199 1494 655 1520">Rated head: 175.5 m</p> <p data-bbox="199 1523 651 1550">Pump orientation: Vertical</p> <p data-bbox="199 1552 635 1579">Shaft seal arrangement: Single</p> <p data-bbox="199 1581 639 1608">Code for shaft seal: HQQV</p> <p data-bbox="199 1610 667 1637">Approvals on nameplate: CE, EAC</p> <p data-bbox="199 1639 764 1666">Curve tolerance: ISO9906:2012 3B</p> <p data-bbox="199 1702 320 1729">Materials:</p> <p data-bbox="199 1731 831 1821">Base: Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06</p> <p data-bbox="199 1823 727 1912">Impeller: Stainless steel EN 1.4301 AISI 304</p> <p data-bbox="199 1915 608 1942">Bearing: SIC</p> <p data-bbox="199 1944 647 1971">Support bearing: Graflon</p> <p data-bbox="199 2004 344 2031">Installation:</p> <p data-bbox="199 2033 632 2060">Maximum ambient temperature: 55 °C</p> <p data-bbox="199 2063 638 2089">Maximum operating pressure: 30 bar</p>

Qty.	Description
	<p>Max pressure at stated temp: 30 bar / 90 °C 30 bar / -20 °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> <p>Motor type: SIEMENS</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 30 kW</p> <p>Power (P2) required by pump: 30 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-420D/660-725Y V</p> <p>Rated current: 56,0-51,0/32,0-29,5 A</p> <p>Starting current: 660-660 %</p> <p>Cos phi - power factor: 0.87</p> <p>Rated speed: 2955 rpm</p> <p>Efficiency: IE3 93,3%</p> <p>Motor efficiency at full load: 93.3-93.3 %</p> <p>Motor efficiency at 3/4 load: 93.6-93.6 %</p> <p>Motor efficiency at 1/2 load: 93.4-93.4 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 81U15332</p> <p>Others:</p> <p>Minimum efficiency index, MEI $\hat{\alpha}\%$: 0.70</p> <p>Net weight: 332 kg</p> <p>Gross weight: 377 kg</p> <p>Shipping volume: 0.808 m³</p> <p>Country of origin: GB</p> <p>Custom tariff no.: 84137075</p>

Description	Value
General information:	
Product name:	CR 45-9-2A-F-A-V-HQQV
Product No:	96122837
EAN number:	5700396688817
Technical:	
Pump speed on which pump data are based:	2951 rpm
Rated flow:	45 m ³ /h
Rated head:	175.5 m
Head max:	219.5 m
Stages:	9
Impellers:	9
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:	B
Materials:	
Base:	Cast iron EN 1563 EN-GJS-500-7
Impeller:	ASTM A536 80-55-06 Stainless steel EN 1.4301 AISI 304
Material code:	A
Code for rubber:	V
Bearing:	SIC
Support bearing:	Graflon
Installation:	
Maximum ambient temperature:	55 °C
Maximum operating pressure:	30 bar
Max pressure at stated temp:	30 bar / 90 °C 30 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:	FF350
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 90 °C
Selected liquid temperature:	20 °C
Density at selected liquid temperature:	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





Company name:

Created by:

Phone:

Date:

08/05/2019

Description	Value
Rated current:	56,0-51,0/32,0-29,5 A
Starting current:	660-660 %
Cos phi - power factor:	0.87
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
Motor protec:	PTC
Motor No:	81U15332
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI η_{min} :	0.70
Net weight:	332 kg
Gross weight:	377 kg
Shipping volume:	0.808 m ³
Country of origin:	GB
Custom tariff no.:	84137075