

Qty.	Description
1	CR 45-9 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 96122813 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of Stainless steel, EN 1.4301. - Pump head and base are made of Cast iron. - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. - Pipework connection is via DIN flanges. The motor is a 3-phase AC motor. Controls: Terminal box position: 6 Frequency converter: None Liquid: Pumped liquid: Water Liquid temperature range: -30 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 2957 rpm Rated flow: 45 m³/h Rated head: 185 m Pump orientation: Vertical Shaft seal arrangement: Single Primary shaft seal: HQQE Code for shaft seal: HQQE Approvals: CE,EAC,UKCA Approvals for drinking water: WRAS,ACS Curve tolerance: ISO9906:2012 3B Materials:

Qty.	Description
1	Type key, code for rubber components. E = EPDM, V=FKM: E Base: Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06 Impeller: Stainless steel EN 1.4301 AISI 304 Type key, code for materials: A 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 / -30 °C Type of connection: DIN Size of inlet connection: DN 80 Size of outlet connection: DN 80 Pressure rating for connection: PN 40 Flange size for motor: FF350 Terminal box position: 6 Electrical data: Motor standard: IEC Motor type: INNOMOTICS Rated power - P2: 37 kW Power (P2) required by pump: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 65/37.5 A Starting current: 710 % Cos phi - power factor: 0.88 Rated speed: 2955 rpm IE efficiency: IE3 93,7% IE Efficiency class: IE3 Motor efficiency at full load: 93.7 % Motor efficiency at 3/4 load: 94.2 % Motor efficiency at 1/2 load: 94.0 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Built-in motor protection: PTC Motor No: 81U15334 Others: Minimum efficiency index, MEI ≥: 0.70



Company name:

Created by:

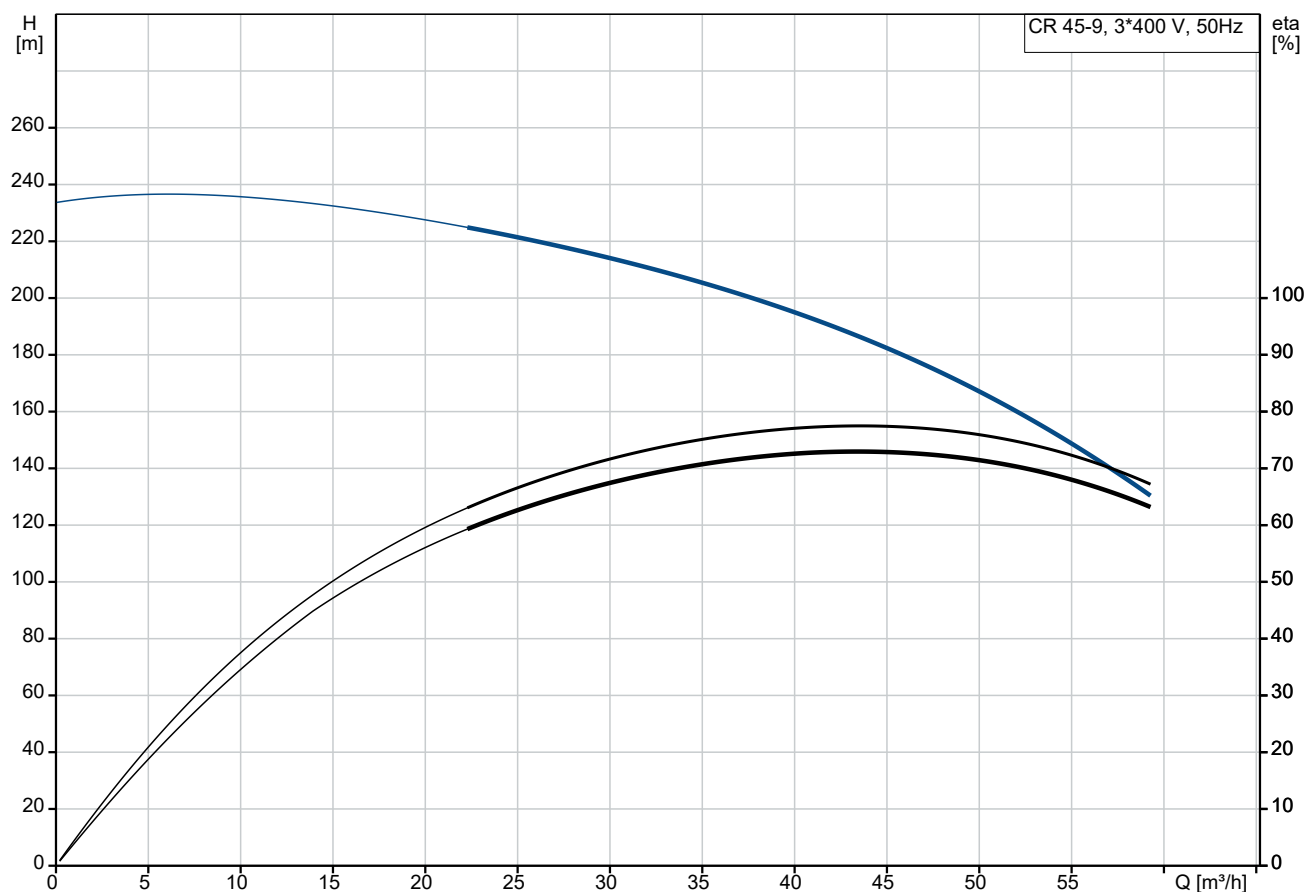
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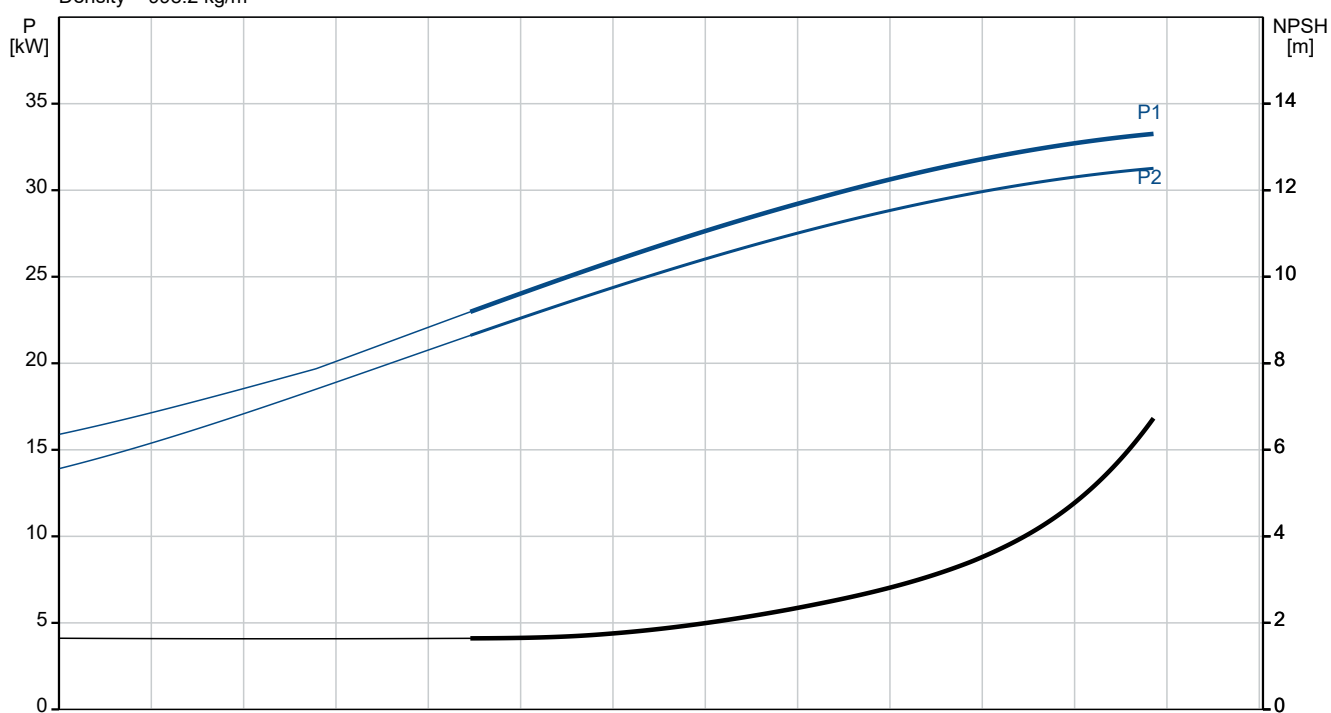
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Qty.	Description
1	Net weight: 357 kg Gross weight: 402 kg Shipping volume: 0.808 m³ Danish VVS No.: 385907090 Finnish LVI No.: 4925499

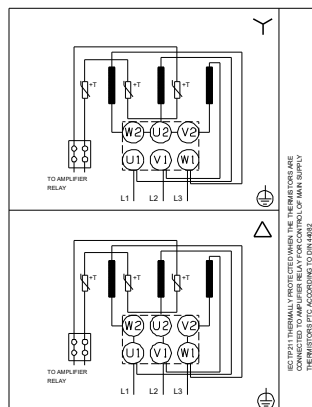
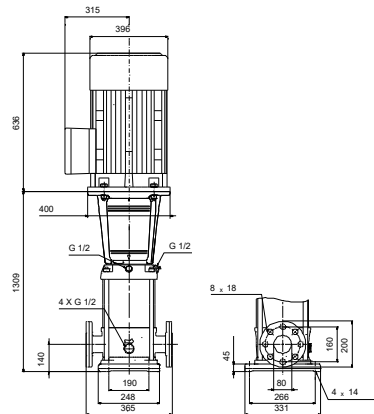
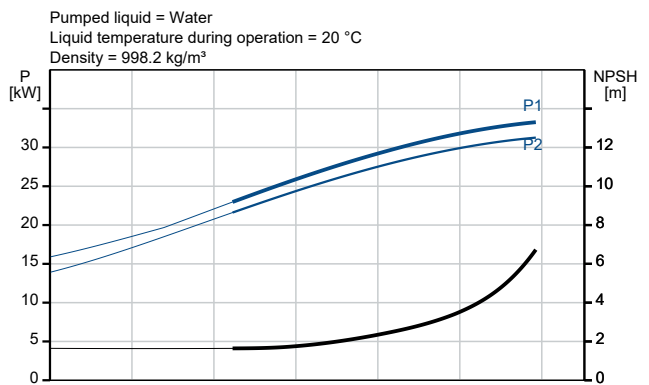
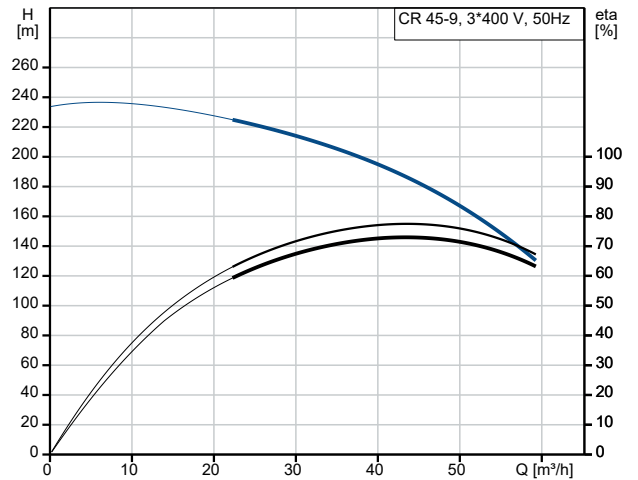
96122813 CR 45-9 A-F-A-E-HQQE 50 Hz



Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³



Description	Value
General information:	
Product name:	CR 45-9 A-F-A-E-HQQE
Product No:	96122813
EAN number:	5700396688572
Price:	
Technical:	
Pump speed on which pump data are based:	2957 rpm
Rated flow:	45 m³/h
Rated head:	185 m
Maximum head:	230.2 m
Stages:	9
Impellers:	9
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Primary shaft seal:	HQQE
Code for shaft seal:	HQQE
Approvals:	CE, EAC, UKCA
Approvals for drinking water:	WRAS, ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	B
Pump type:	CR
Materials:	
Type key, code for rubber components. E = EPDM, V=FKM:	E
Base:	Cast iron EN 1563 EN-GJS-500-7
Impeller:	ASTM A536 80-55-06 Stainless steel EN 1.4301 AISI 304
Type key, code for materials:	A
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 / -30 °C
Type key, code for pipework connection:	F
Type of connection:	DIN
Size of inlet connection:	DN 80
Size of outlet connection:	DN 80
Pressure rating for connection:	PN 40
Flange size for motor:	FF350
Terminal box position:	6
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-30 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³





Company name:

Created by:

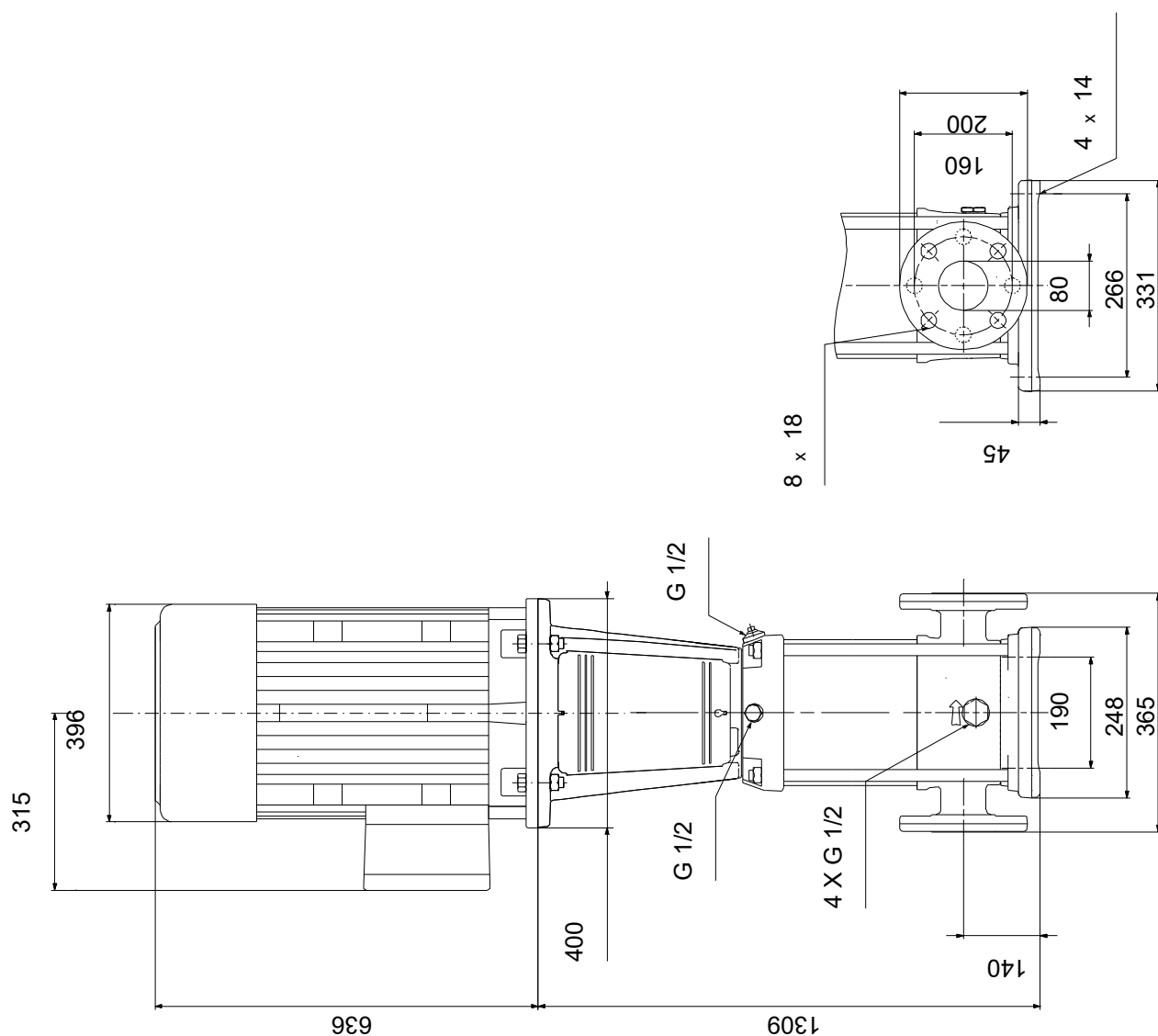
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Date:

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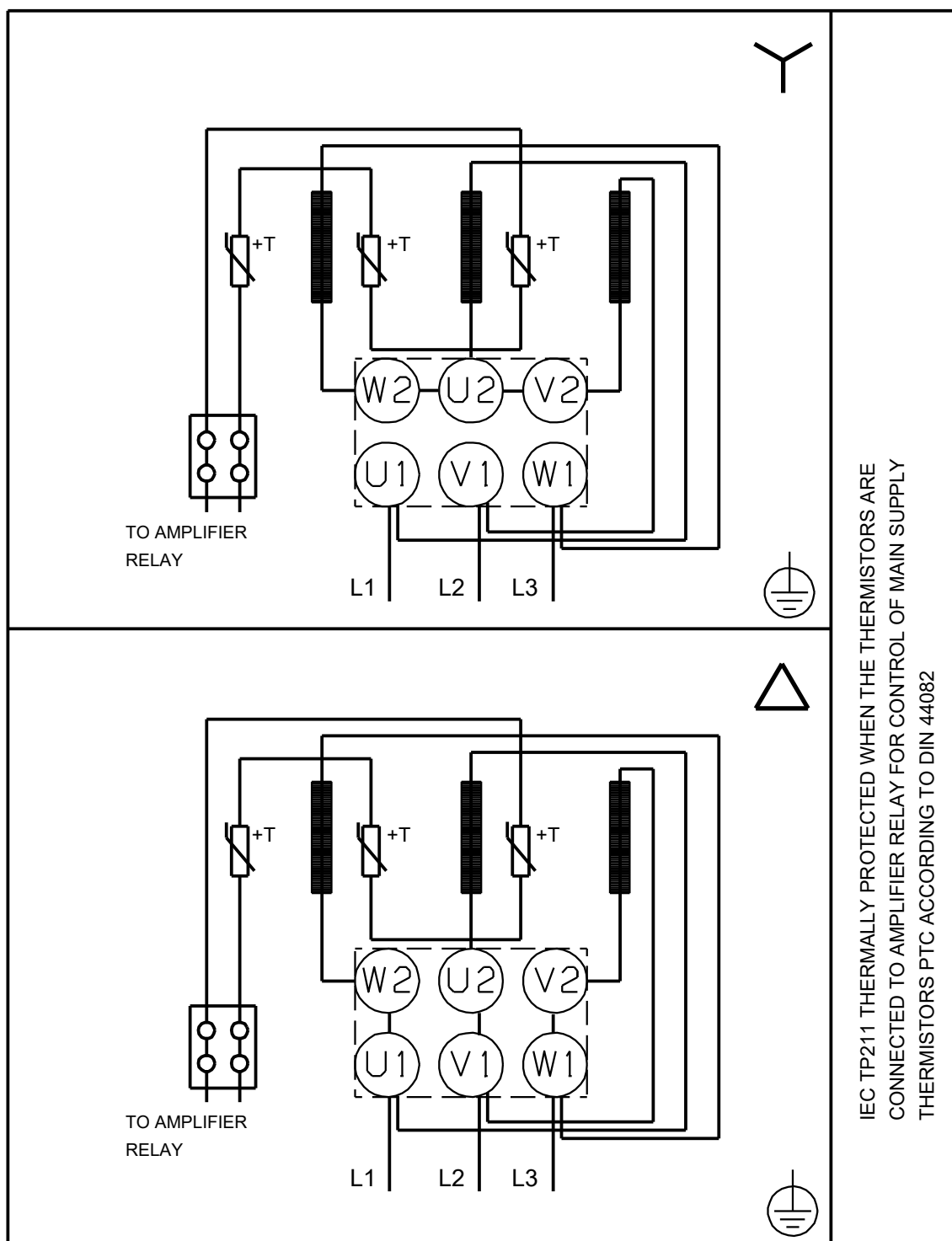
Description	Value
Electrical data:	
Motor standard:	IEC
Motor type:	INNOMOTICS
Rated power - P2:	37 kW
Power (P2) required by pump:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-420D/660-725Y V
Rated current:	65/37.5 A
Starting current:	710 %
Cos phi - power factor:	0.88
Rated speed:	2955 rpm
IE efficiency:	IE3 93,7%
IE Efficiency class:	IE3
Motor efficiency at full load:	93.7 %
Motor efficiency at 3/4 load:	94.2 %
Motor efficiency at 1/2 load:	94.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	81U15334
Controls:	
Terminal box position:	6
Frequency converter:	None
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	357 kg
Gross weight:	402 kg
Shipping volume:	0.808 m³
Danish VVS No.:	385907090
Finnish LVI No.:	4925499

96122813 CR 45-9 A-F-A-E-HQQE 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.