Qty. | Description

1 NBE 32-160/163 AAF2AESBQQEKWB



Note! Product picture may differ from actual product

Product No.: 99101765

Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

Flanges are PN 16 with dimensions according to EN 1092-2. The pump has an axial suction port, radial discharge port, horizontal shaft and a back pull-out design enabling removal of the motor, motor stool, cover and impeller without disturbing the pump housing or pipework.

The unbalanced rubber bellows seal is according to DIN EN 12756.

The pump is close-coupled to a fan-cooled, permanent-magnet synchronous motor.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.

Controls:

Frequency converter: Built-in Pressure sensor: N

Liquid:

Pumped liquid: Water
Liquid temperature range: -25 .. 120 °C
Selected liquid temperature: 20 °C
Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2901 rpm

Rated flow: 29.11 m³/h
Rated head: 28.42 m
Actual impeller diameter: 163 mm
Nominal impeller diameter: 160
Shaft seal arrangement: Single
Code for shaft seal: BQQE

Curve tolerance: ISO9906:2012 3B2

Bearing design: Standard

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM class 35

Wear ring: Brass
Impeller: Cast iron

EN-GJL-200 ASTM class 30

Internal pump house coating: CED

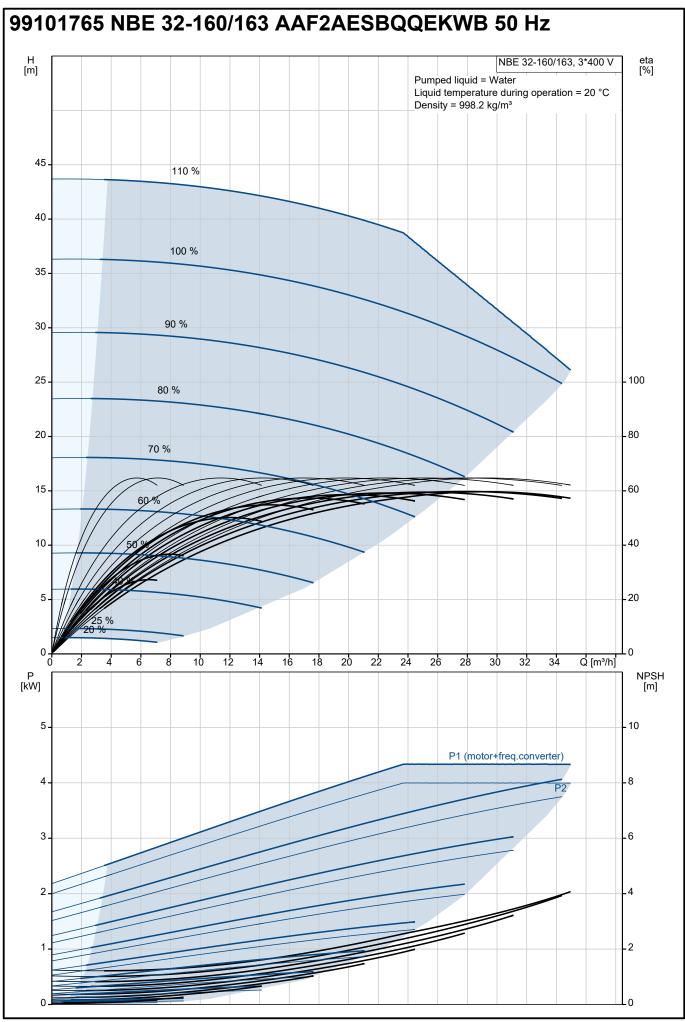
Shaft: Stainless steel

EN 1.4301 AISI 304

Installation:

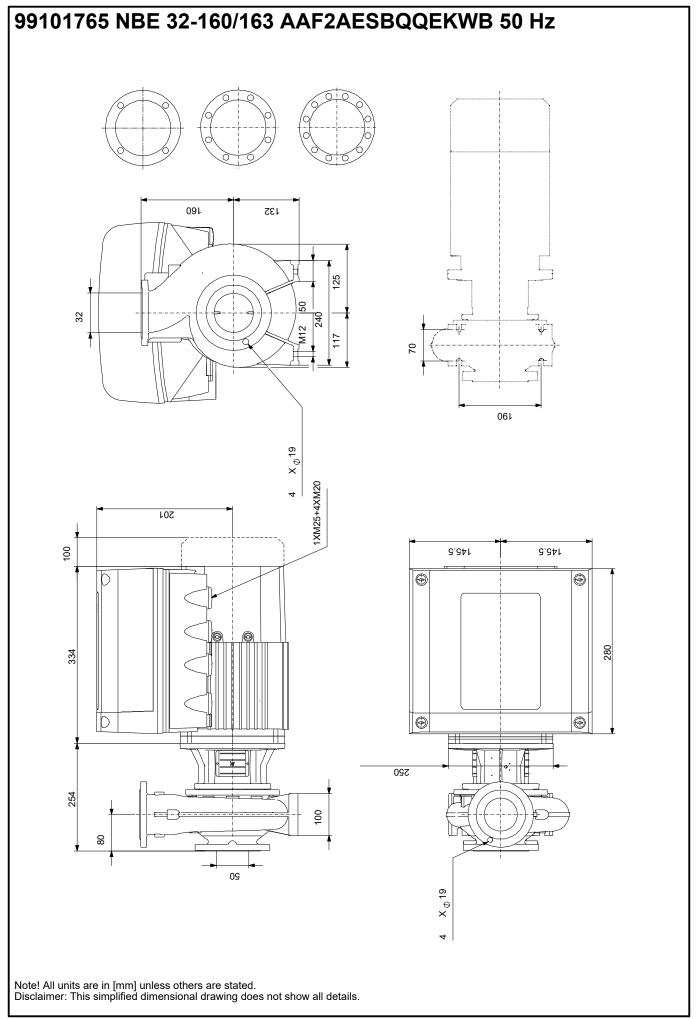
Range of ambient temperature: -20 .. 50 °C
Maximum operating pressure: 16 bar
Pipe connection standard: EN 1092-2
Size of inlet connection: DN 50
Size of outlet connection: DN 32
Pressure rating for connection: PN 16

Qty. Description Bearing lubrication: Grease Pump housing with feet: Yes Support block (Yes/No): Ν Electrical data: IE5 IE Efficiency class: Rated power - P2: 4 kW 50 Hz Mains frequency: 3 x 380-500 V Rated voltage: Rated current: 7.60-6.20 A Cos phi - power factor: 0.92-0.87 Rated speed: 360-4000 rpm Efficiency: 92.2% Motor efficiency at full load: 92.2 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971270 Bearing insulation type N-end: STEEL BEARING Minimum efficiency index, MEI ≥: 0.59 Net weight: 56 kg Gross weight: 66 kg Shipping volume: 0.178 m³ Danish VVS No.: 386100163 Country of origin: HU Custom tariff no.: 84137051



Description	Value	H [m]	NBE 32-160/163, 3*400 V	eta [%]
General information:			Pumped liquid = Water	
Product name:	NBE 32-160/163		Liquid temperature during operation = 20 °C Density = 998.2 kg/m³	
Floduct Haille.	AAF2AESBQQEKWB	45	110 %	
Product No:	99101765			
EAN number:	5712606788095	40		
Technical:	0.12000.0000		100 %	
Pump speed on which pump data	2004	35		
are based:	2901 rpm			
Rated flow:	29.11 m³/h	30 -	90 %	
Rated head:	28.42 m			
		25 -	80 %	100
Actual impeller diameter:	163 mm			
Nominal impeller diameter:	160	20 -	70 %	80
Shaft seal arrangement:	Single			
Shaft diameter:	24 mm	15	69%	60
Code for shaft seal:	BQQE	7		
Curve tolerance:	ISO9906:2012 3B2	10 🗕 🅢		40
Pump version:	Α			
Bearing design:	Standard	5 -	75 O/	20
Materials:			63×70	
Pump housing:	Cast iron	0 /	5 10 15 20 25 30 Q[m³/h]	0
Pump housing:	EN-GJL-250	— Р —	5 10 10 20 20 30 Q[III/II]	NPSH
Pump housing:	ASTM class 35	P [kW]		[m]
Wear ring:	Brass	5		10
			P1 (motor+freq.converter)	•
Impeller:	Cast iron	4 —	P2	8
Impeller:	EN-GJL-200			6
Impeller:	ASTM class 30	3		6
Internal pump house coating:	CED	2		4
Material code:	A			4
Code for rubber:	E	1		2
Shaft:	Stainless steel			
Shaft:	EN 1.4301	0		0
Shaft:	AISI 304			
Installation:		•	254 334 100	
Range of ambient temperature:	-20 50 °C	80		_
Maximum operating pressure:	16 bar			
Pipe connection standard:	EN 1092-2			6
•	DN 50	+M		0
Size of inlet connection:		*H()		
Size of outlet connection:	DN 32		4 x •19	(a)
Pressure rating for connection:	PN 16		00 100M25+4KM20 240 117 125	
Bearing lubrication:	Grease			6000
Pump housing with feet:	Yes			
Support block (Yes/No):	N	4 × • 19		
Connect code:	F2			
Liquid:				\perp \downarrow
Pumped liquid:	Water			
Liquid temperature range:	-25 120 °C		280	
Selected liquid temperature:	20 °C			
Density:	998.2 kg/m³			
Electrical data:	550.2 Ng/III			
	IE5			
IE Efficiency class:	IE5			
Rated power - P2:	4 kW			
Mains frequency:	50 Hz	13 <u>— — — — — — — — — — — — — — — — — — —</u>		
Rated voltage:	3 x 380-500 V			
Rated current:	7.60-6.20 A		100 100	
Cos phi - power factor:	0.92-0.87			
Rated speed:	360-4000 rpm		11 046C2 12 910001000	
Efficiency:	92.2%		1 PO000000 1 PO000000 1 PO000000 1 PO000000	
Motor efficiency at full load:	92.2 %			
Number of poles:	2		27 July 100	
Enclosure class (IEC 34-5):	IP55			
			-	
Insulation class (IEC 85):	F		A GENERA A Y GENERA Y GENERA	
Built-in motor protection:	ELEC		3 GNO 13 -24 V	
Motor No: Mount. design. acc. IEC 34-7:	98971270 IM V1/B5		3 -34V 23 -45V 23 -500	

Description	Value		
Bearing insulation type N-end:	STEEL BEARING		
Controls:			
Control panel:	HMI300 - Advanced		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	N		
Others:			
Minimum efficiency index, MEI ≥:	0.59		
Net weight:	56 kg		
Gross weight:	66 kg		
Shipping volume:	0.178 m³		
Danish VVS No.:	386100163		
Country of origin:	HU		
Custom tariff no.:	84137051		



99101765 NBE 32-160/163 AAF2AESBQQEKWB 50 Hz L1 L2 L2 PΕ NC C1 NO NC C2 NO 18 GND DI4/OC2 Pt100/1000 19 Pt100/1000 17 12 AO GND AI3 DI2 LiqTec GND 20 22 LiqTec +24 V* OC GND DI3/OC1 10 AI1 +24 V*/5 V* +24 V* 2 DI1 5 +5 V 6 GENIbus A GENIbus Y GENIbus B GND +24 V 15 +24 V 26 +5 V GND GDS TX 24 GDS RX +5 V* Al2 Note! All units are in [mm] unless others are stated.

	Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total			
		NBE 32-160/163	1	99101765	Price on request			
					request			
	<u> </u>			<u> </u>				