

02/01/2023

Qty. | Description

1

NB 125-400/384 AASF2AESBQQEOW5



Product No.: 98975856

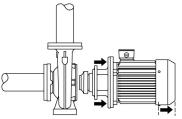
Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).

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 asynchronous motor.

The back pull-out design means that the pump can be serviced by a single person without disturbing the pump housing or pipes.



Cast-iron parts have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface.

Pump

Motor stool and pump cover are made of cast iron (EN-GJL-250). Coupling guards are fitted to the motor stool. The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Seal faces:

- Rotating seal ring material: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

The pump housing has feet.

The pump is to be secured to the foundation with bolts through the pump housing feet and motor feet. The pump is delivered with steel support blocks. The support blocks provide horizontal alignment of the pump and ensure clearance between the motor stool/motor flange and the foundation.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

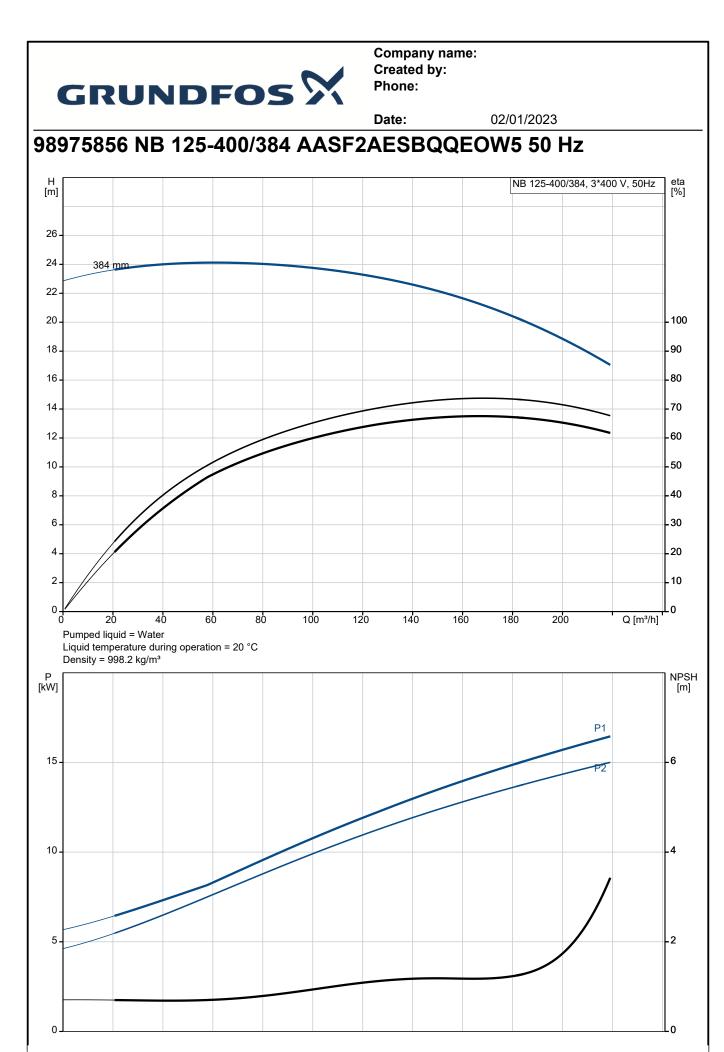
The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.



cannot cause accidents. The mo regulations. The motor can be connected to a Grundfos CUE offers a range of Further product details Cast-iron parts have an epoxy-ba	tors must be connected to a variable speed drive for variable speed drives. Pla ased coating made in a c where an electrical field	to a motor-protecti adjustment of pur ease find more inf	which ensures that the automatic reset ive circuit breaker according to local imp performance to any duty point. formation in Grundfos Product Center. eposition (CED) process. CED is a cts ensures deposition of paint particles a
cannot cause accidents. The mo regulations. The motor can be connected to a Grundfos CUE offers a range of r Further product details Cast-iron parts have an epoxy-ba high-quality dip-painting process a thin, well-controlled layer on the Technical data Controls: Frequency converter: Pressure sensor:	tors must be connected to a variable speed drive for variable speed drives. Ple ased coating made in a ca where an electrical field a e surface.	to a motor-protecti adjustment of pur ease find more inf	ive circuit breaker according to local imp performance to any duty point. formation in Grundfos Product Center. eposition (CED) process. CED is a
Grundfos CUE offers a range of Further product details Cast-iron parts have an epoxy-ba high-quality dip-painting process a thin, well-controlled layer on the Technical data Controls: Frequency converter: Pressure sensor:	variable speed drives. Ple ased coating made in a c where an electrical field e surface.	ease find more inf	formation in Grundfos Product Center. eposition (CED) process. CED is a
Cast-iron parts have an epoxy-ba high-quality dip-painting process a thin, well-controlled layer on the Technical data Controls: Frequency converter: Pressure sensor:	where an electrical field a surface.	athodic electro-de around the produc	eposition (CED) process. CED is a cts ensures deposition of paint particles a
Controls: Frequency converter: Pressure sensor:	-		
Frequency converter: Pressure sensor:	-		
Frequency converter: Pressure sensor:	-		
	Ν		
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			
Rated flow: Rated head:	169.9 m³/h 20.91 m		
Rated nead: Actual impeller diameter:	20.91 m 384 mm		
	400		
Shaft seal arrangement:	Single		
Code for shaft seal:	BQQE		
Curve tolerance:	ISO9906:2012 3B		
Bearing design:	Standard		
Materials:			
Pump housing:			
Wear ring:	Brass		
Impeller:	Cast iron		
Internal nump house coating:			
Shaft:	CED Stainless steel		
/ 	EN 1.4301		
	AISI 304		
Installation:			
t max amb:	55 °C		
Maximum operating pressure:	16 bar		
Pipe connection standard:	EN 1092-2		
	Yes		
Support block (Yes/No):	Y		
	Nominal impeller diameter: Shaft seal arrangement: Code for shaft seal: Curve tolerance: Bearing design: Materials: Pump housing: Vear ring: mpeller: Neternal pump house coating: Shaft: Installation: max amb: Maximum operating pressure: Pipe connection standard: Size of inlet connection: Size of outlet connection: Size of outlet connection: Pressure rating for connection: Bearing lubrication: Pump housing with feet:	Nominal impeller diameter:400Shaft seal arrangement:SingleCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3BBearing design:StandardMaterials:Cast ironPump housing:Cast ironPump housing:Cast ironPump housing:Cast ironPump housing:Cast ironPump housing:Cast ironPump housing:Cast ironPump house:BrassCast ironEN-GJL-200ASTM class 30CEDNeternal pump house coating:CEDShaft:Stainless steelEN 1.4301AISI 304Alsi 304AISI 304Anterials:DN 150Pipe connection standard:EN 1092-2Size of outlet connection:DN 125Pressure rating for connection:PN 16Bearing lubrication:GreasePump housing with feet:Yes	Nominal impeller diameter:400Shaft seal arrangement:SingleCode for shaft seal:BQQECurve tolerance:ISO9906:2012 3BBearing design:StandardMaterials:Pump housing:Cast ironPump housing:Cast ironEN-GJL-250ASTM class 35Vear ring:Brassmpeller:Cast ironEN-GJL-200ASTM class 30Astri class 30CEDShaft:Stainless steelEN 1.4301AISI 304Alsi 304EN 1.4301Assimum operating pressure:16 barPipe connection standard:EN 1092-2Size of outlet connection:DN 150Size of outlet connection:PN 16Bearing lubrication:GreasePump housing with feet:Yes



Electrical data:Motor type:SIEMENSE Efficiency class:IE3Rated power - P2:15 kWAains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated voltage:3 x 380-420D/660-725Y VRated current:29.5/17.2 AStarting current:590-590 %Cos phi - power factor:0.80Rated speed:975 rpmEfficiency:IE3 91,2%Motor efficiency at full load:91.2-91.2 %Motor efficiency at 3/4 load:92.0-92.0 %Aotor efficiency at 1/2 load:91.9-91.9 %Jumber of poles:6Enclosure class (IEC 34-5):IP55nsulation class (IEC 35):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGDthers:400 kgAnimum efficiency index, MEI ≥:0.56Net weight:400 kgGross weight:432 kgShipping volume:0.951 m³			Date:	02/01/2023	
Motor type:SIEMENSE Efficiency class:IE3Rated power - P2:15 kWAains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated voltage:3 x 380-420D/660-725Y VRated current:29.5/17.2 AStarting current:590-590 %Cos phi - power factor:0.80Rated speed:975 rpmEfficiency:IE3 91.2%Motor efficiency at full load:91.2-91.2 %Motor efficiency at 1/2 load:91.9-91.9 %Number of poles:6Enclosure class (IEC 34-5):IP55nsulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGDthers:0.56Vet weight:400 kgGross weight:432 kgShipping volume:0.951 m³	Description				
E Efficiency class:IE3Rated power - P2:15 kWMains frequency:50 HzRated voltage:3 x 380-420D/660-725Y VRated current:29.5/17.2 AStarting current:590-590 %Cos phi - power factor:0.80Rated speed:975 rpmEfficiency:IE3 91,2%Motor efficiency at full load:91.2-91.2 %Adotor efficiency at 1/2 load:91.9-91.9 %Aumber of poles:6Enclosure class (IEC 34-5):IP55nsulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:.0.56Vet weight:400 kgShipping volume:0.951 m³	Electrical data:				
Rated power - P2:15 kWMains frequency:50 HzRated voltage:3 × 380-420D/660-725Y VRated current:29.5/17.2 AStarting current:590-590 %Cos phi - power factor:0.80Rated speed:975 rpmEfficiency:IE3 91,2%Motor efficiency at full load:91.2-91.2 %Motor efficiency at 3/4 load:92.0-92.0 %Aumber of poles:6Enclosure class (IEC 34-5):IP55nsulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:.0.56weight:400 kgShipping volume:0.951 m³					
Mains frequency:50 HzRated voltage: $3 \times 380-420D/660-725Y V$ Rated current: $29.5/17.2 A$ Starting current: $590-590 \%$ Cos phi - power factor: 0.80 Rated speed: $975 rpm$ Efficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2 \%$ Motor efficiency at $3/4$ load: $92.0-92.0 \%$ Motor efficiency at $1/2$ load: $91.9-91.9 \%$ Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers:					
Rated voltage: $3 \times 380-420D/660-725Y V$ Rated current: $29.5/17.2 A$ Starting current: $590-590 \%$ Cos phi - power factor: 0.80 Rated speed: $975 rpm$ Efficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2 \%$ Motor efficiency at 3/4 load: $92.0-92.0 \%$ Aotor efficiency at 1/2 load: $91.9-91.9 \%$ Jumber of poles: 6 Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers: 0.56 Ver weight: $400 kg$ Stross weight: $432 kg$ Shipping volume: $0.951 m^3$					
Rated current: $29.5/17.2$ AStarting current: $590-590$ %Cos phi - power factor: 0.80 Rated speed: 975 rpmEfficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2$ %Motor efficiency at $3/4$ load: $92.0-92.0$ %Motor efficiency at $1/2$ load: $91.9-91.9$ %Number of poles: 6 Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers: 0.56 Met weight: 400 kgGross weight: 432 kgShipping volume: 0.951 m³	Mains frequency:	50 Hz			
Starting current: $590-590$ %Cos phi - power factor: 0.80 Rated speed: 975 rpmEfficiency:IE3 91,2%Actor efficiency at full load: $91.2-91.2$ %Actor efficiency at $3/4$ load: $92.0-92.0$ %Actor efficiency at $1/2$ load: $91.9-91.9$ %Aumber of poles: 6 Enclosure class (IEC 34-5):IP55nsulation class (IEC 85):FActor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers: 0.56 Act weight: 400 kgGross weight: 432 kgShipping volume: 0.951 m³	Rated voltage:	3 x 380-420D/660-	725Y V		
Cos phi - power factor: 0.80 Rated speed: 975 rpmEfficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2$ %Motor efficiency at $3/4$ load: $92.0-92.0$ %Motor efficiency at $1/2$ load: $91.9-91.9$ %Number of poles: 6 Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers: 0.56 Met weight: 400 kgGross weight: 432 kgShipping volume: 0.951 m³	Rated current:	29.5/17.2 A			
Cos phi - power factor: 0.80 Rated speed: 975 rpmEfficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2$ %Motor efficiency at $3/4$ load: $92.0-92.0$ %Motor efficiency at $1/2$ load: $91.9-91.9$ %Number of poles: 6 Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers: 0.56 Met weight: 400 kgGross weight: 432 kgShipping volume: 0.951 m³	Starting current:	590-590 %			
Rated speed:975 rpmEfficiency:IE3 91,2%Aotor efficiency at full load:91.2-91.2 %Aotor efficiency at 3/4 load:92.0-92.0 %Aotor efficiency at 1/2 load:91.9-91.9 %Number of poles:6Enclosure class (IEC 34-5):IP55nsulation class (IEC 85):FAotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:0.56Net weight:400 kgGross weight:432 kgShipping volume:0.951 m³					
Efficiency:IE3 91,2%Motor efficiency at full load: $91.2-91.2$ %Motor efficiency at 3/4 load: $92.0-92.0$ %Motor efficiency at 1/2 load: $91.9-91.9$ %Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:0.56Minimum efficiency index, MEI >:0.56Vet weight:400 kgGross weight:432 kgShipping volume:0.951 m³					
Motor efficiency at full load: $91.2-91.2$ %Motor efficiency at 3/4 load: $92.0-92.0$ %Motor efficiency at 1/2 load: $91.9-91.9$ %Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No: $83W15426$ Bearing insulation type N-end:STEEL BEARINGOthers:0.56Motor sweight: 400 kgGross weight: 432 kgShipping volume: 0.951 m³					
Motor efficiency at 3/4 load: $92.0-92.0 \%$ Motor efficiency at 1/2 load: $91.9-91.9 \%$ Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:0.56Minimum efficiency index, MEI >:0.56Net weight:400 kgGross weight:432 kgShipping volume:0.951 m³					
Motor efficiency at 1/2 load: $91.9-91.9$ %Number of poles:6Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FMotor No:83W15426Bearing insulation type N-end:STEEL BEARINGOthers:0.56Minimum efficiency index, MEI >:0.56Net weight:400 kgGross weight:432 kgShipping volume:0.951 m³					
Number of poles: 6 Enclosure class (IEC 34-5): IP55 nsulation class (IEC 85): F Aotor No: 83W15426 Bearing insulation type N-end: STEEL BEARING Others: 0.56 Net weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³					
Enclosure class (IEC 34-5): IP55 nsulation class (IEC 85): F Motor No: 83W15426 Bearing insulation type N-end: STEEL BEARING Others: Minimum efficiency index, MEI ≥: 0.56 Net weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³					
nsulation class (IEC 85): F Motor No: 83W15426 Bearing insulation type N-end: STEEL BEARING Dthers: Minimum efficiency index, MEI ≥: 0.56 Net weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³					
Motor No: 83W15426 Bearing insulation type N-end: STEEL BEARING Others:					
Bearing insulation type N-end: STEEL BEARING Dthers: Minimum efficiency index, MEI ≥: 0.56 Net weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³					
Others: Ainimum efficiency index, MEI ≥: 0.56 Vet weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³					
Alinimum efficiency index, MEI ≥: 0.56 Net weight: 400 kg Gross weight: 432 kg Shipping volume: 0.951 m³	bearing insulation type in-end.	STEEL BEARING			
Net weight:400 kgGross weight:432 kgShipping volume:0.951 m³	Others:				
Gross weight: 432 kg Shipping volume: 0.951 m ³					
Shipping volume: 0.951 m ³	Net weight:	400 kg			
Danish VVS No.: 386066404		0.951 m³			
	Danish VVS No.:	386066404			





		Date:	02/01/202	23	
Description	Value	H [m]		NB 125-400/384, 3*400	V, 50Hz
General information:	Value	26 -			
Product name:	NB 125-400/384 AASF2AESBQQEOW5	24 - <u>384 mm</u>			
Product No:	98975856	22 - 20 -			
EAN number:	5712604550809				
Technical:		18-			
Pump speed on which pump data are based:	975 rpm	16 - 14 -			_ [
Rated flow:	169.9 m³/h	12 -			
Rated head:	20.91 m	10 -			-
Actual impeller diameter:	384 mm	8-			
Nominal impeller diameter:	400	6-			
Shaft seal arrangement:	Single	4-			
Shaft diameter:	42 mm	2-			
Code for shaft seal:	BQQE	0 <u>¥</u>	50 100	150 200	Q [m³/h]
Curve tolerance:	ISO9906:2012 3B	Pumped liquid	t = Water		
Pump version:	AS		ature during operation = 20	°C	
Bearing design:	Standard	Density = 998	.2 Kg/III-		
Materials:		[kW]			
Pump housing:	Cast iron				P1
Pump housing:	EN-GJL-250	15 -			P2
Pump housing:	ASTM class 35				
Wear ring:	Brass	10 -			
Impeller:	Cast iron	10-			. [
Impeller:	EN-GJL-200				
Impeller:	ASTM class 30	5			
Internal pump house coating:	CED				
Material code:	A				
Code for rubber:	E	0			L
Shaft:	Stainless steel				
Shaft:	EN 1.4301	411	588		
Shaft:	AISI 304				
Installation:				3 × 0 ²³	
t max amb:	55 °C				
Maximum operating pressure:	16 bar				
Pipe connection standard:	EN 1092-2	200	15		
Size of inlet connection:	DN 150		8	e ²⁸⁴ sie ³²⁰ si	1 Aller
Size of outlet connection:	DN 125		e e e e e e e e e e e e e e e e e e e		241
Pressure rating for connection:	PN 16				+
Bearing lubrication:	Grease			§ + · + · + · - · - · · ·	
Pump housing with feet:	Yes			121	-
Support block (Yes/No):	Y				
Connect code:	F2				
Liquid:					
Pumped liquid:	Water				
Liquid temperature range:	-25 120 °C				
Selected liquid temperature:	20 °C		Y		
Density:	998.2 kg/m ³				
Electrical data:		₿ [,] [™] ₿	" ■ №" ■		
Motor type:	SIEMENS		<u> </u>		
IE Efficiency class:	IE3				
Rated power - P2:	15 kW	TO AMPLIFIER RELAY			
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-420D/660-725Y V				
Rated current:	29.5/17.2 A	Ŋ-т Д Ŋ			
Starting current:	590-590 %				
Cos phi - power factor:	0.80		2 Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		
Rated speed:	975 rpm	TO AMPLIFIER			
Efficiency:	IE3 91,2%	RELAY L1			

Printed from Grundfos Product Centre [2022.55.009]

eta [%]

NPSH [m]

- 6

4

-2

Lo



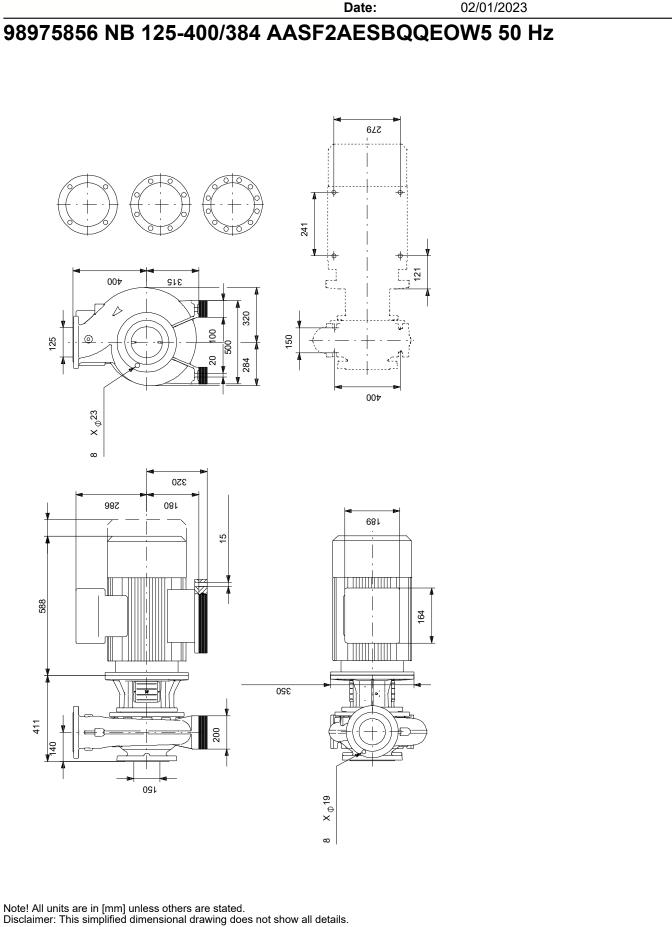
Date:

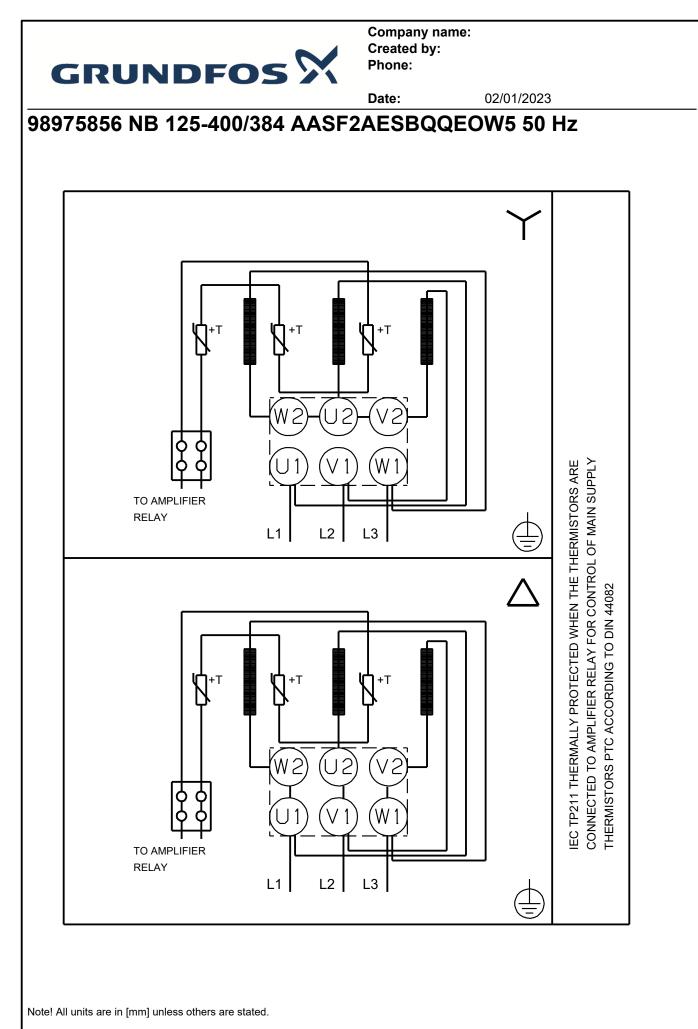
02/01/2023

Description	Value
Motor efficiency at full load:	91.2-91.2 %
Motor efficiency at 3/4 load:	92.0-92.0 %
Motor efficiency at 1/2 load:	91.9-91.9 %
Number of poles:	6
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	83W15426
Mount. design. acc. IEC 34-7:	IM B35
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.56
Net weight:	400 kg
Gross weight:	432 kg
Shipping volume:	0.951 m³
Danish VVS No.:	386066404



02/01/2023







Date: 02/01/2023 **Order Data:** Position | Your pos. | Amount | Product No | **Product name** Total

1 USILIOII	1001 p03.	i iouuci name	Amount	i iouuci iio	i Otar
		NB 125-400/384	1	98975856	Price on request