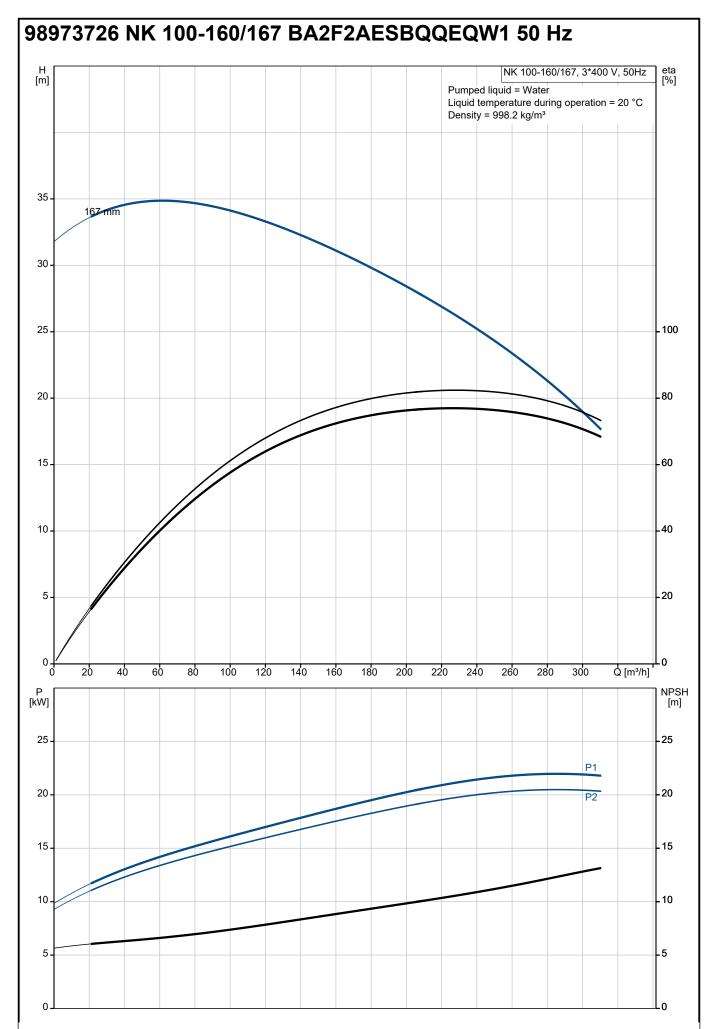
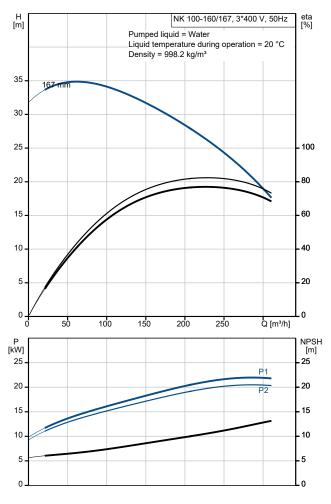


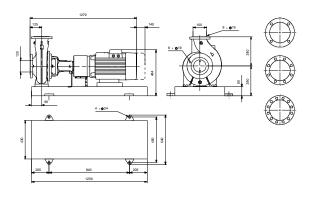
Qty.	Description						
1	 The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034. The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection 						
	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. Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations. The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.						
	Further product details						
	Further product details 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 pa a thin, well-controlled layer on the surface.						
	Technical data						
	Controls:						
	Frequency converter: Pressure sensor:	NONE N					
	Liquid:						
	Pumped liquid: Liquid temperature range:	Water -25 120 °C					
	Selected liquid temperature:	20 °C					
	Density:	998.2 kg/m ³					
	Technical: Pump speed on which pump dat Rated flow: Pump with motor (Yes/No): Rated head: Actual impeller diameter: Nominal impeller diameter: Code for shaft seal: Mechanical seal type: Curve tolerance: Bearing design: Materials: Pump housing: Wear ring: Impeller: Internal pump house coating: Shaft:	a are based: 2950 rpm 227.9 m³/h Y 26.18 m 167 mm 160 BQQE Single ISO9906:2012 3B Standard Cast iron EN-GJL-250 ASTM class 35 Brass Cast iron EN-GJL-200 ASTM class 30 CED Stainless steel EN 1.4301 AISI 304					
	Installation: t max amb: Maximum operating pressure: Pipe connection standard: Type of inlet connection: Type of outlet connection: Size of inlet connection: Size of outlet connection: Pressure rating for connection: Coupling type:	60 °C 16 bar EN 1092-2 DIN DIN DN 125 DN 100 PN 16 Flexible w/spacer					

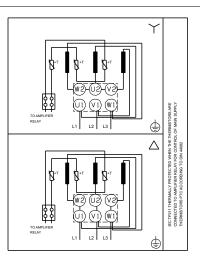
Base frame: EVISO Code for base frame: 6 Grouling (Yes/No): N Electrical data: 190/MB ILE Efficiency class: IE3 Rated power P2: 22 kW Mains frequency: 50 Hz Starting current: 33 x 380-4150/860-090y V Rated current: 33 282-7% Motor fficiency at full load: 92.7 % Motor efficiency at full load: 93.7 % Motor fficiency at full load: 93.7 %<	1 Base fr	ption	
Grouting (Yes/No):NElectrical data:Motor type:180MBIE Efficiency class:IE3Rated power - P2:22 kWMains frequency:50 HzRated voltage:3 x 380-415D/660-690Y VRated outrent:39.5/22.8 AStarting current:830 %Cos phi - power factor:0.90-0.90Rated speed:2950 rpmEfficiency:IE3 92.7%Motor efficiency at full load:92.7 %Motor efficiency at 1/2 load:94.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 44-5):55 Dust/JettingInsulation type N-end:STEEL BEARINGOthers:0.70Minimum efficiency index, MEI \ge 0.70Net weight:289 kgGross weight:304 kgShipping volume:0.554 m³Country of origin:HU			
Electrical data:Motor type:180MBIE Efficiency class:IE3Rated power - P2:22 kWMains frequency:50 HzRated voltage:3 x 380-415D/660-690Y VRated current:39.5/22.8 AStarting current:830 %Cos phi - power factor:0.90-0.90Rated speed:2950 rpmEfficiency:IE3 92.7%Motor efficiency at full load:92.7 %Motor efficiency at 3/4 load:93.7 %Motor efficiency at 1/2 load:94.4 %Number of poles:2Enclosure class (IEC 34-5):55 Dust/JettingInsulation class (IEC 85):FMotor No:87470022Bearing insulation type N-end:STEEL BEARINGOthers:0.70Net weight:289 kgGross weight:304 kgShipping volume:0.554 m³Country of origin:HU			
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Rated power - P2: 22 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-415D/660-690Y V$ Rated current: $39.5/22.8 \text{ A}$ Starting current: 830% Cos phi - power factor: $0.90-0.90$ Rated speed: 2950 rpm Efficiency:IE3 92.7 %Motor efficiency at full load: 92.7% Motor efficiency at $3/4 \text{ load:}$ 93.7% Motor efficiency at $1/2 \text{ load:}$ 94.4% Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85):FMotor No: 87470022 Bearing insulation type N-end:STEEL BEARINGOthers: 0.70 Met weight: 289 kg Gross weight: 304 kg Shipping volume: 0.554 m^3 Country of origin:HU			
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Net weight:289 kgGross weight:304 kgShipping volume:0.554 m³Country of origin:HU	Others	:	
Net weight:289 kgGross weight:304 kgShipping volume:0.554 m³Country of origin:HU			0.70
Shipping volume:0.554 m³Country of origin:HU			
Country of origin: HU			304 kg
Country of origin: HU			
Custom tariff no.: 84137059			HU
			84137059



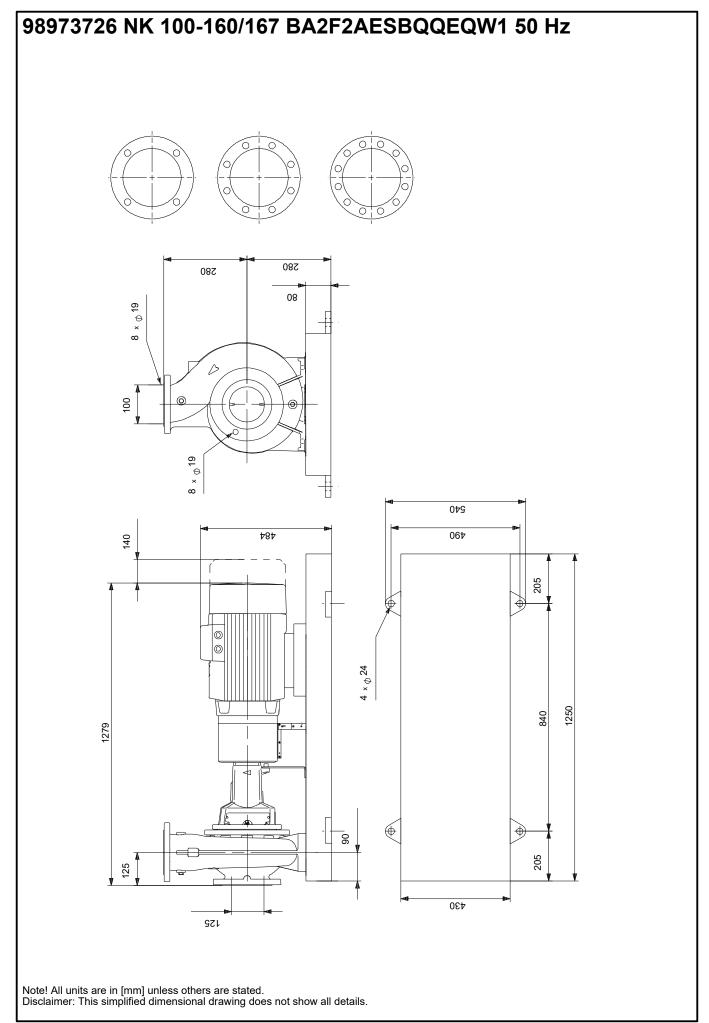
Description	Value
General information:	
Product name:	NK 100-160/167 BA2F2AESBQQEQW1
Product No:	98973726
EAN number:	5712604511183
Technical:	0/12001011100
Pump speed on which pump data	2950 rpm
are based:	2950 1011
Rated flow:	227.9 m³/h
Pump with motor (Yes/No):	Y
Rated head:	26.18 m
Actual impeller diameter:	167 mm
Nominal impeller diameter:	160
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Mechanical seal type:	Single
Curve tolerance:	ISO9906:2012 3B
Pump version:	A2
Bearing design:	Standard
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM class 35
Wear ring:	Brass
Impeller:	Cast iron
Impeller:	EN-GJL-200
Impeller:	ASTM class 30
Internal pump house coating:	CED
Material code:	Α
Code for rubber:	E
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Installation:	
t max amb:	60 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Type of inlet connection:	DIN
Type of outlet connection:	DIN
Size of inlet connection:	DN 125
Size of outlet connection:	DN 100
Pressure rating for connection:	PN 16
Coupling type:	Flexible w/spacer
Base frame design:	EN/ISO
Code for base frame:	6
Grouting (Yes/No):	Ν
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	180MB
IE Efficiency class:	IE3
Rated power - P2:	22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415D/660-690Y V
Rated current:	39.5/22.8 A
Starting current:	830 %
Cos phi - power factor:	0.90-0.90
Rated speed:	2950 rpm
Efficiency:	IE3 92,7%

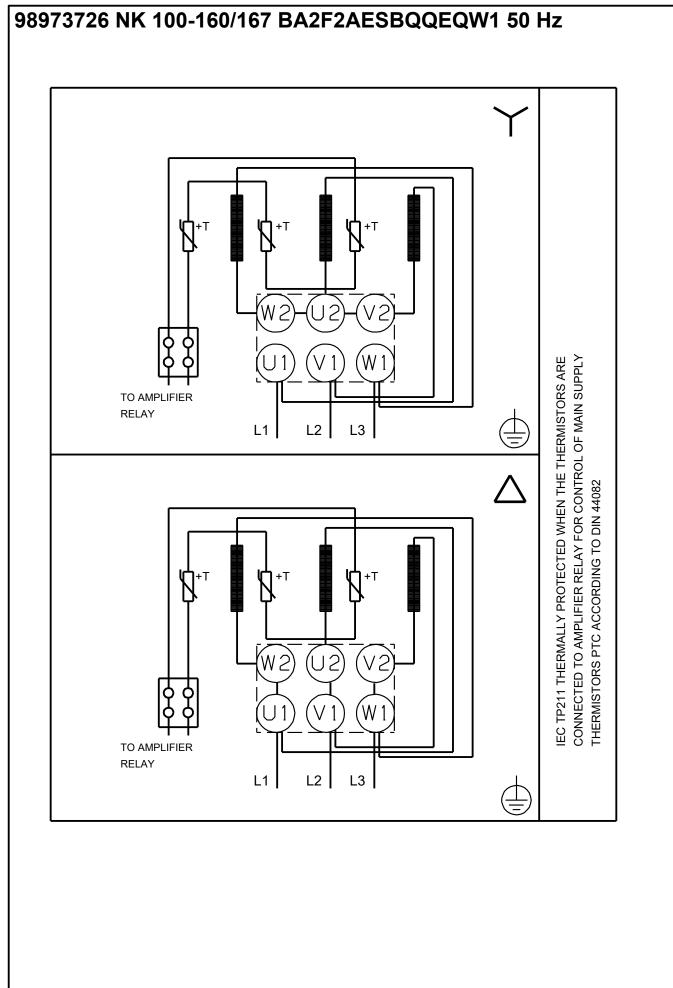






Description	Value
Motor efficiency at 3/4 load:	93.7 %
Motor efficiency at 1/2 load:	94.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Built-in motor protection:	PTC
Motor No:	87470022
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Frequency converter:	NONE
Pressure sensor:	Ν
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	289 kg
Gross weight:	304 kg
Shipping volume:	0.554 m³
Country of origin:	HU
Custom tariff no.:	84137059





Note! All units are in [mm] unless others are stated.

		Order Da	ta:		
Position	Your pos.	Product name	Amount	Product No	Total
		NK 100-160/167	1	98973726	Price or reques
					reques