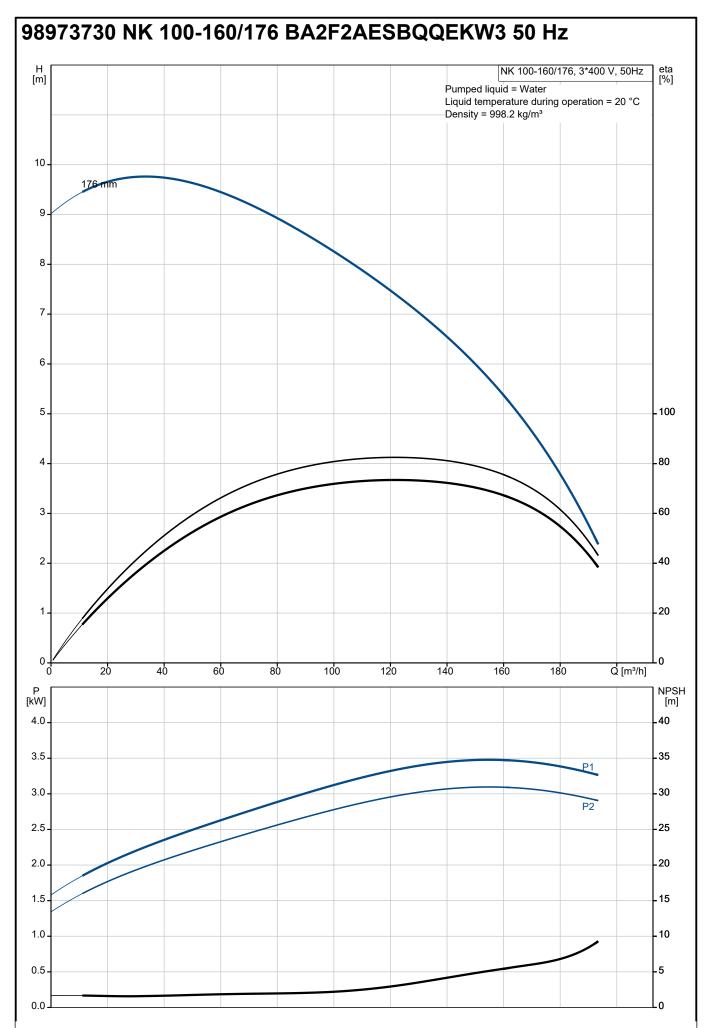
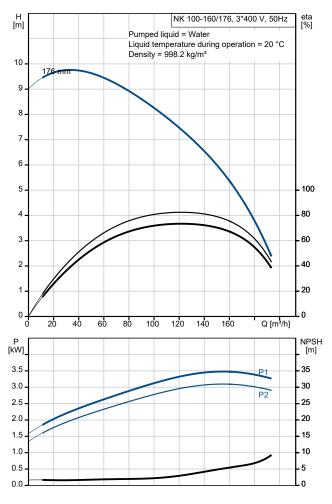


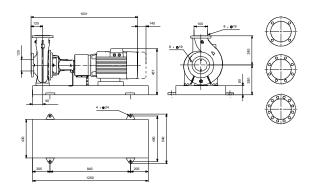
Qty.	Description						
1	The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.   Thermal switches must be connected to an external control circuit 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						
	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 particle a thin, well-controlled layer on the surface.						
	Technical data						
	Controls:						
	Frequency converter: Pressure sensor:	NONE N					
	Liquid:						
	Pumped liquid:	Water					
	Liquid temperature range:	-25 120 °C 20 °C					
	Selected liquid temperature: Density:	998.2 kg/m <sup>3</sup>					
	Technical:						
	Pump speed on which pump data	a are based: 1460 rpm					
	Rated flow:	121.4 m³/h					
	Pump with motor (Yes/No):	Y					
	Rated head:	7.198 m					
	Actual impeller diameter:	176 mm					
	Nominal impeller diameter:	160					
	Code for shaft seal:	BQQE					
	Mechanical seal type:						
	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					
	onan.	EN 1.4301					
		AISI 304					
	In stall stick.						
	Installation: t max amb:	55 °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 N					
	Grouting (Yes/No):	Ν					

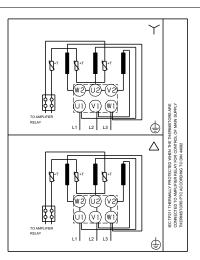
Qty.	Description					
1	Electrical data:					
	Motor type:	SIEMENS				
	IE Efficiency class:	IE3				
	Rated power - P2:	4 kW				
	Mains frequency:	50 Hz				
	Rated voltage:	3 x 380-420D/660-725Y V				
	Rated current:	7.9/4.6 A				
	Starting current:	710-710 %				
	Cos phi - power factor:	0.82				
	Rated speed:	1460 rpm				
	Efficiency:	IE3 88,6%				
	Motor efficiency at full load:	88.6-88.6 %				
	Motor efficiency at 3/4 load:	89.2-89.2 %				
	Motor efficiency at 1/2 load:	88.6-88.6 %				
	Number of poles:	4				
	Enclosure class (IEC 34-5):	IP55				
	Insulation class (IEC 85):	F				
	Motor No:	98957789				
	Bearing insulation type N-end:	N				
	Bearing meanation type it ond.					
	Others:					
	Minimum efficiency index, MEI ≥:	0.68				
	Net weight:	192 kg				
	Gross weight:	207 kg				
	Shipping volume:	0.554 m <sup>3</sup>				
	Country of origin:	HU				
	Custom tariff no.:	84137059				
		04137039				



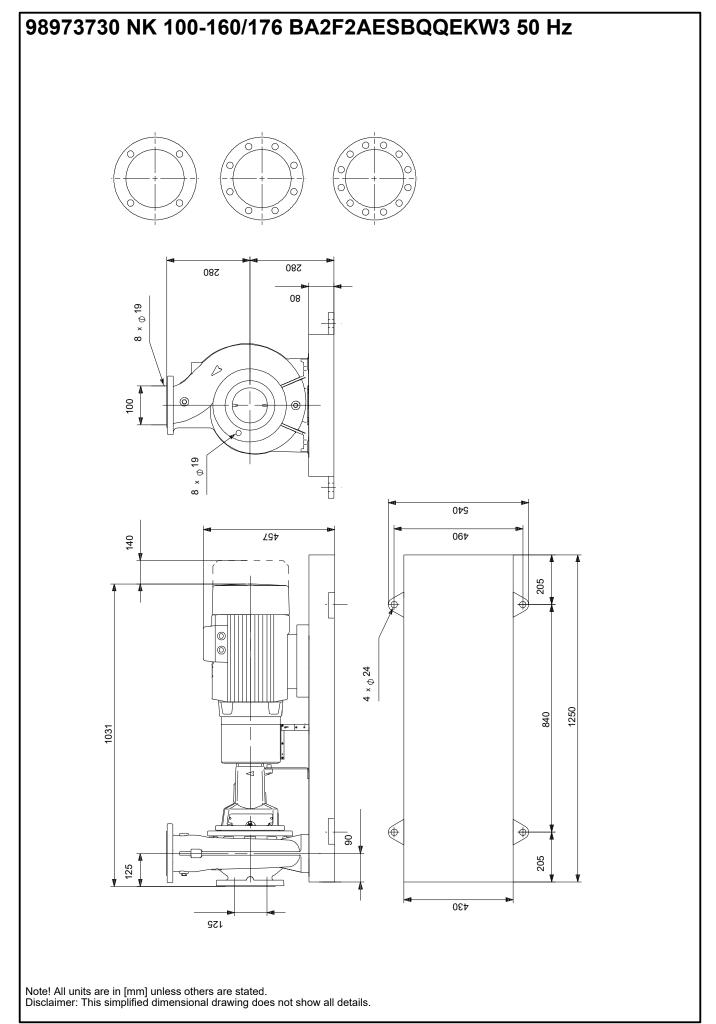
Description	Value	
General information:		
Product name:	NK 100-160/176 BA2F2AESBQQEKW3	
Product No:	98973730	
EAN number:	5712604511268	
Fechnical:		
Pump speed on which pump data are based:	1460 rpm	
Rated flow:	121.4 m³/h	
Pump with motor (Yes/No):	Y	
Rated head:	7.198 m	
Actual impeller diameter:	176 mm	
Nominal impeller diameter:	160	
Shaft diameter: Code for shaft seal:	24 mm	
	BQQE	
Mechanical seal type: Curve tolerance:	Single ISO9906:2012 3B2	
Pump version:	A2	
Bearing design:	A2 Standard	
Materials:		
Pump housing:	Cast iron	
Pump housing:	EN-GJL-250	
Pump housing:	ASTM class 35	
Vear ring:	Brass	
mpeller:	Cast iron	
mpeller:	EN-GJL-200	
mpeller:	ASTM class 30	
nternal pump house coating:	CED	
Material code:	A	
Code for rubber:	E	
Shaft:	Stainless steel	
Shaft:	EN 1.4301	
Shaft:	AISI 304	
nstallation:		
max amb:	55 °C	
Maximum operating pressure:	16 bar	
Pipe connection standard:	EN 1092-2	
Type of inlet connection:	DIN	
Type of outlet connection:	DIN DN 405	
Size of inlet connection:	DN 125	
Size of outlet connection:	DN 100	
Pressure rating for connection:	PN 16 Elevible w/spacer	
Coupling type: Base frame design:	Flexible w/spacer EN/ISO	
Code for base frame:	6	
Grouting (Yes/No):	N	
Connect code:	F	
_iquid:	•	
Pumped liquid:	Water	
Liquid temperature range:	-25 120 °C	
Selected liquid temperature:	20 °C	
Density:	998.2 kg/m <sup>3</sup>	
Electrical data:	-	
Notor type:	SIEMENS	
E Efficiency class:	IE3	
Rated power - P2:	4 kW	
Mains frequency:	50 Hz	
Rated voltage:	3 x 380-420D/660-725Y V	
Rated current:	7.9/4.6 A	
Starting current:	710-710 %	
Cos phi - power factor:	0.82	
<b>D</b> • <b>A</b> • <b>d</b> • <b>u</b> • • • <b>d</b>	1460 rpm	
Rated speed:	•	
≺ated speed: Efficiency: Motor efficiency at full load:	IE3 88,6% 88.6-88.6 %	

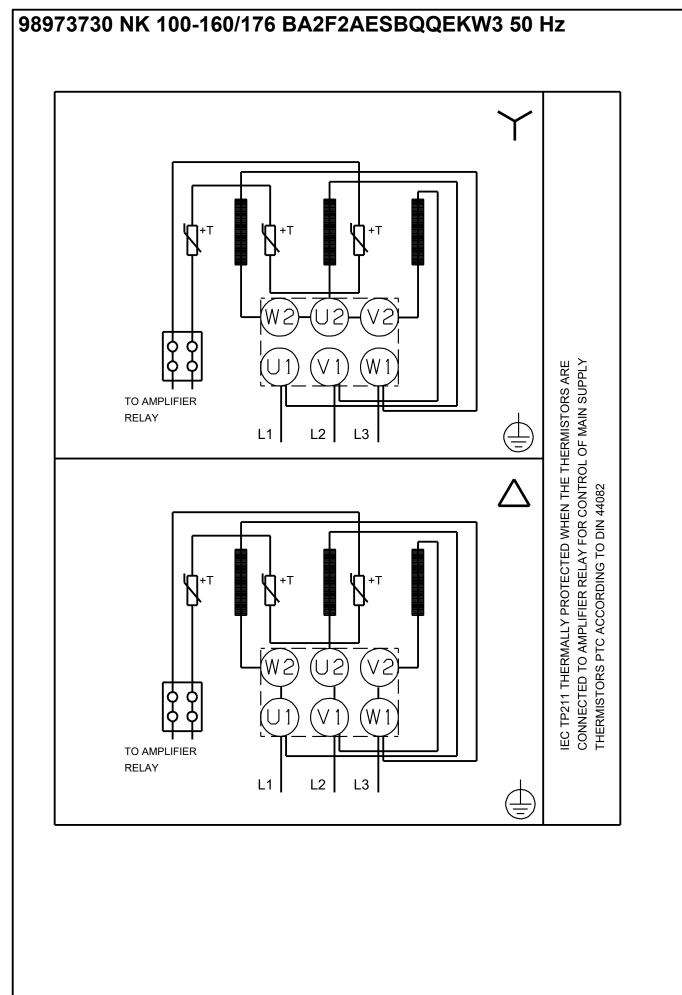






Description	Value		
Motor efficiency at 3/4 load:	89.2-89.2 %		
Motor efficiency at 1/2 load:	88.6-88.6 %		
Number of poles:	4		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Built-in motor protection:	PTC		
Motor No:	98957789		
Bearing insulation type N-end:	Ν		
Controls:			
Frequency converter:	NONE		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.68		
Net weight:	192 kg		
Gross weight:	207 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			
Position	Your pos.	Product name	Amount	Product No	Total
		NK 100-160/176	1	98973730	Price o reques
					reques
	1			1	