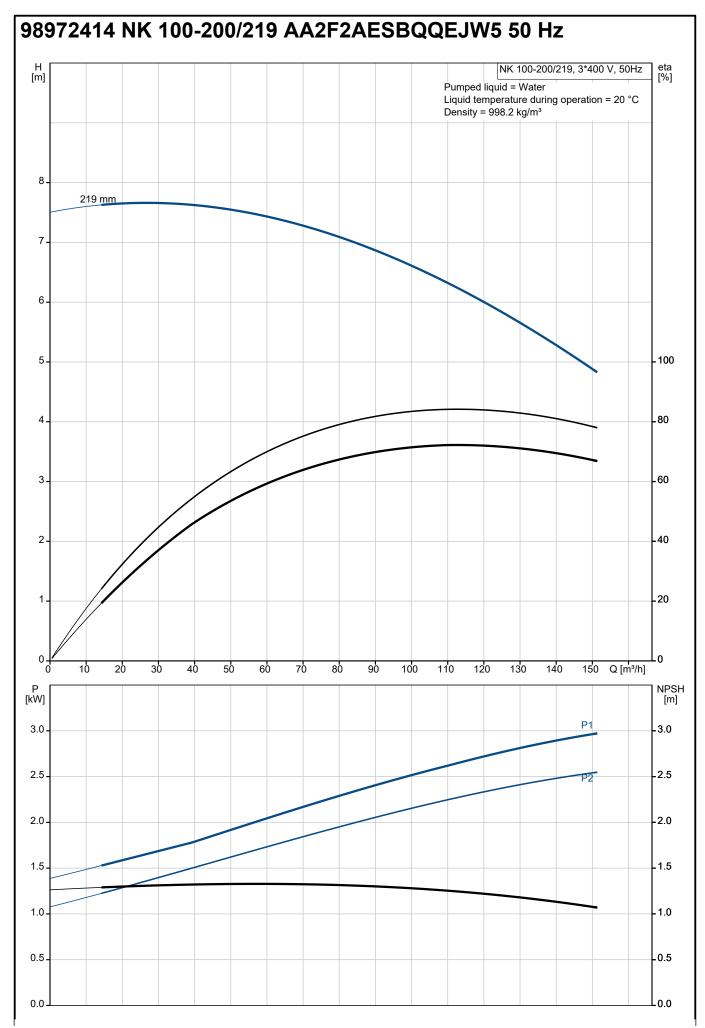
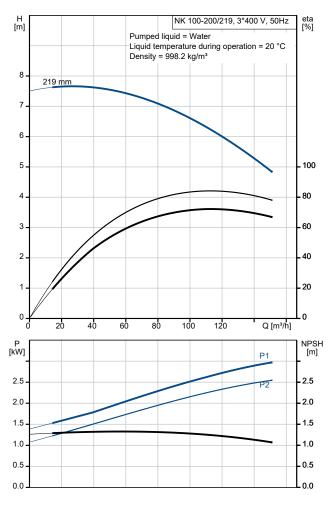


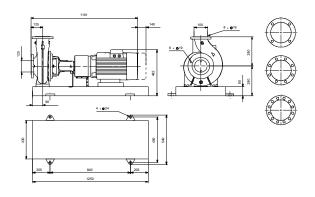
Qty.	Description					
1	 The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions. Thermal switches must be connected to an external control circuit 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 particles 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				
	Selected liquid temperature:	20 °C				
	Density:	998.2 kg/m³				
	Technical:					
	Pump speed on which pump data	a are based: 975 rpm				
	Rated flow:	122.1 m ³ /h				
	Pump with motor (Yes/No):	Y				
	Rated head:	5.86 m				
	Actual impeller diameter:	219 mm				
	Nominal impeller diameter: Code for shaft seal:	200 BQQE				
	Mechanical seal type:	BQQE Single				
	Curve tolerance:	ISO9906:2012 3B2				
	Bearing design:	Standard				
	Materials:	Costing				
	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: Shaft:	CED Stainless steel				
	Shart.	EN 1.4301				
		AISI 304				
	Installation:	55 °C				
	t max amb: Maximum operating pressure:	55 C 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: Coupling type:	PN 16 Flexible w/spacer				
	Base frame design:	EN/ISO				
	Code for base frame:	6				
	Grouting (Yes/No):	Ν				

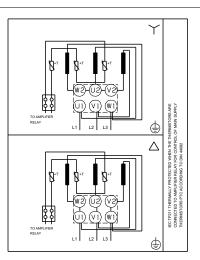
Qty.	Description				
1	Electrical data:				
-	Motor type:	SIEMENS			
	IE Efficiency class:	IE3			
	Rated power - P2:	3 kW			
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 220-240D/380-420Y V			
	Rated current:	12.1/6.9 A			
	Starting current:	660-660 %			
	Cos phi - power factor:	0.73			
	Rated speed:	975 rpm			
	Efficiency:	IE3 85,6%			
	Motor efficiency at full load:	85.6-85.6 %			
	Motor efficiency at 3/4 load:	85.8-85.8 %			
	Motor efficiency at 1/2 load:	84.3-84.3 %			
	Number of poles:	6			
		IP55			
	Enclosure class (IEC 34-5):	F			
	Insulation class (IEC 85):				
	Motor No:	98957422			
	Bearing insulation type N-end:	STEEL BEARING			
	Others:				
	Minimum efficiency index, MEI ≥:	0.65			
1	Net weight:	232 kg			
	Gross weight:	341 kg			
	Shipping volume:	1.11 m ³			
	Country of origin:	HU			
	Custom tariff no.:	84137059			
		04107000			
1	1				



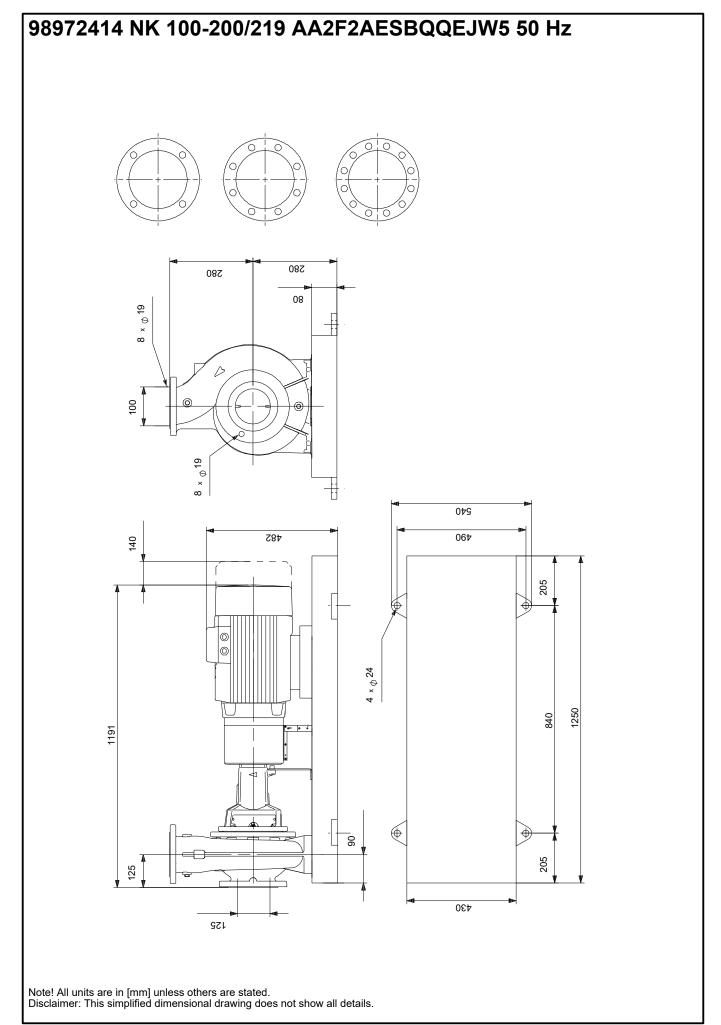
Description	Value	
General information:		
Product name:	NK 100-200/219 AA2F2AESBQQEJW5	
Product No:	98972414	
EAN number:	5712604484814	
Fechnical:		
Pump speed on which pump data are based:	975 rpm	
Rated flow:	122.1 m³/h	
Pump with motor (Yes/No):	Y	
Rated head:	5.86 m	
Actual impeller diameter:	219 mm	
Nominal impeller diameter:	200	
Shaft diameter:	32 mm	
Code for shaft seal:	BQQE	
lechanical seal type:	Single	
Curve tolerance:	ISO9906:2012 3B2	
ump version:	A2	
earing design:	Standard	
laterials:	Oration	
ump housing:	Cast iron	
Pump housing:	EN-GJL-250	
Pump housing:	ASTM class 35	
Vear ring:	Brass	
mpeller:	Cast iron	
mpeller:	EN-GJL-200	
npeller:	ASTM class 30	
Iternal pump house coating:	CED	
laterial code:	A	
ode for rubber: haft:	E Stainless steel	
haft:	Stainless steel EN 1.4301	
haft:	AISI 304	
nan. Installation:		
max amb:	55 °C	
laximum operating pressure:	16 bar	
ipe connection standard:	EN 1092-2	
ype of inlet connection:	DIN	
ype of outlet connection:	DIN	
ize of inlet connection:	DN 125	
Size of outlet connection:	DN 100	
Pressure rating for connection:	PN 16	
Coupling type:	Flexible w/spacer	
ase frame design:	EN/ISO	
code for base frame:	6	
Grouting (Yes/No):	Ν	
connect code:	F	
iquid:		
umped liquid:	Water	
iquid temperature range:	-25 120 °C	
elected liquid temperature:	20 °C	
ensity:	998.2 kg/m³	
lectrical data:		
lotor type:	SIEMENS	
E Efficiency class:	IE3	
	3 kW	
ated power - P2:	F0.11-	
Rated power - P2: Iains frequency:	50 Hz	
lains frequency:		
•		
lains frequency: Rated voltage:	3 x 220-240D/380-420Y V	
fains frequency: lated voltage: lated current: ltarting current:	3 x 220-240D/380-420Y V 12.1/6.9 A	
fains frequency: tated voltage: tated current:	3 x 220-240D/380-420Y V 12.1/6.9 A 660-660 %	
fains frequency: lated voltage: lated current: ltarting current: los phi - power factor:	3 x 220-240D/380-420Y V 12.1/6.9 A 660-660 % 0.73	

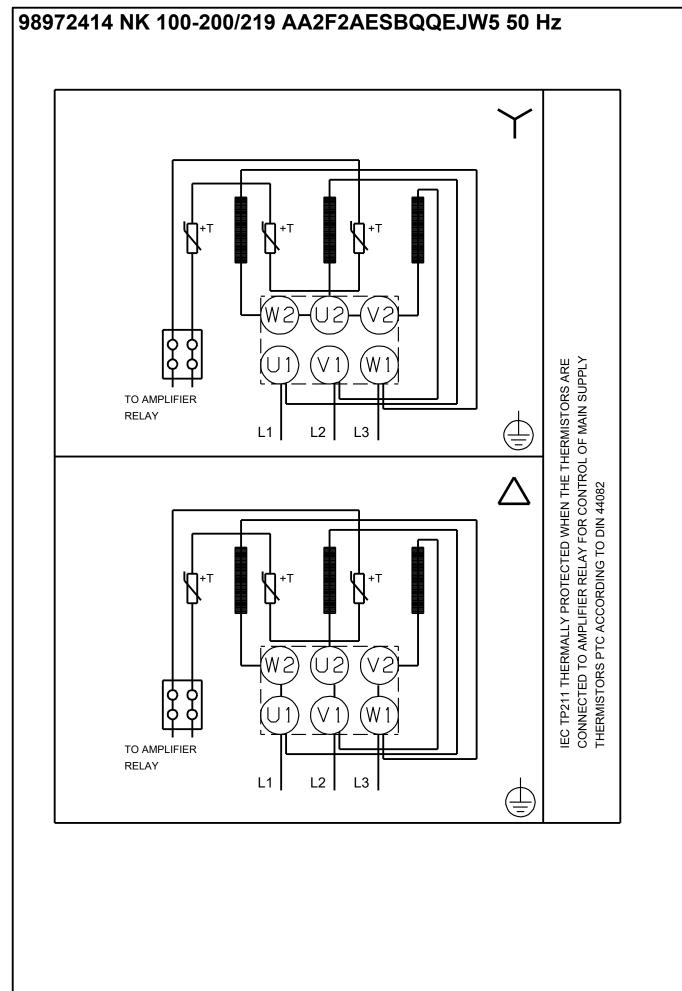






Description	Value	
Motor efficiency at 3/4 load:	85.8-85.8 %	
Motor efficiency at 1/2 load:	84.3-84.3 %	
Number of poles:	6	
Enclosure class (IEC 34-5):	IP55	
Insulation class (IEC 85):	F	
Built-in motor protection:	PTC	
Motor No:	98957422	
Bearing insulation type N-end:	STEEL BEARING	
Controls:		
Frequency converter:	NONE	
Pressure sensor:	Ν	
Others:		
Minimum efficiency index, MEI ≥:	0.65	
Net weight:	232 kg	
Gross weight:	341 kg	
Shipping volume:	1.11 m³	
Country of origin:	HU	
Custom tariff no.:	84137059	





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

Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		NK 100-200/219	1	98972414	Price or reques		
					reques		