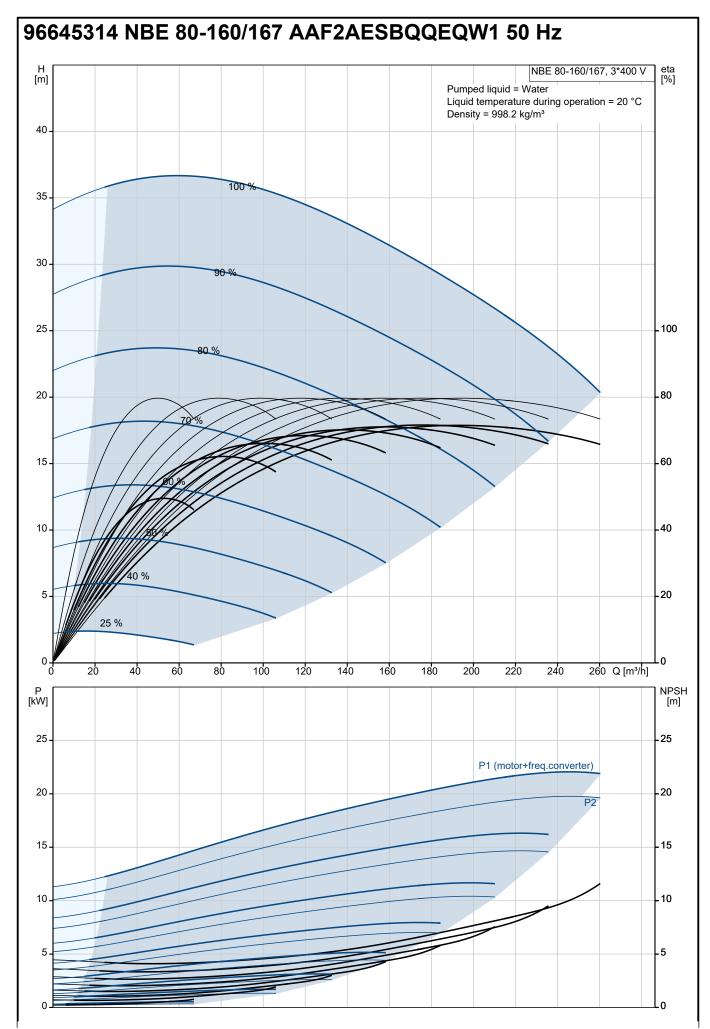
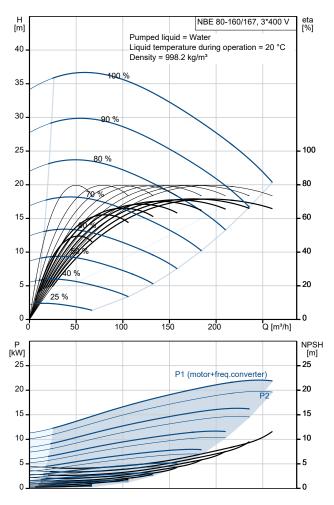


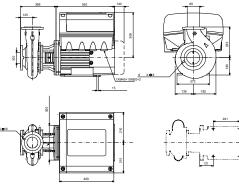
y.   De	scription							
The	The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1. The motor requires no external motor protection. The motor control unit incorporates protection against slow- and							
	<ul> <li>quick-rising temperatures, e.g. constant overload and stalled conditions.</li> <li>The terminal box holds terminals for these connections: <ul> <li>pump start/stop input (potential-free contact)</li> <li>remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA</li> </ul> </li> </ul>							
	<ul> <li>In V voltage supply for setpoint potentiometer, Imax = 5 mA</li> </ul>							
	- one analog sensor input, 0-10 V, 0(4)-20 mA							
	<ul> <li>24 V voltage supply for sensor, Imax = 40 mA</li> <li>one digital input</li> </ul>							
	<ul> <li>two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"</li> <li>RS-485 GENIbus connection</li> </ul>							
	- interface for Grundfos CIM fieldbus module.							
Fu	rther product details							
	-	used coating made in a cathodic electro-deposition (CED) process. CED is a						
hia	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.							
Те	chnical data							
-	ntrols:							
	equency converter:	Built-in						
Pre	essure sensor:	Ν						
Liq	uid:							
	mped liquid:	Water						
	uid temperature range:	-25 120 °C						
	lected liquid temperature:	20 °C						
De	nsity:	998.2 kg/m <sup>3</sup>						
Те	chnical:							
	mp speed on which pump data	a are based: 2940 rpm						
	ted flow:	199.7 m³/h						
	ted head:	28.37 m						
	tual impeller diameter:	167 mm						
	minal impeller diameter: aft seal arrangement:	160 Single						
	de for shaft seal:	BQQE						
	rve tolerance:	ISO9906:2012 3B						
	aring design:	Standard						
Ma	terials:							
Pu	mp housing:	Cast iron						
		EN-GJL-250						
		ASTM class 35						
	ear ring:	Brass						
Imp	peller:	Cast iron						
		EN-GJL-200						
Inte	ernal pump house coating:	ASTM class 30 CED						
Sha		Stainless steel						
		EN 1.4301						
		AISI 304						
Ins	tallation:							
	nge of ambient temperature:	-20 40 °C						
1\a	ximum operating pressure:	16 bar						
	Minum operating pressure.							
Ma	be connection standard:	EN 1092-2						
Ma Pip		EN 1092-2 DN 100						
Ma Pip Siz Siz	e connection standard: e of inlet connection: e of outlet connection:	DN 100 DN 80						
Ma Pip Siz Siz Pre	e connection standard: e of inlet connection:	DN 100						

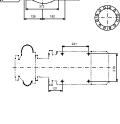
0.54	Description	
Qty.		
1	Pump housing with feet: Support block (Yes/No):	No N
	Electrical data:	
	IE Efficiency class:	IE3
	Rated power - P2:	22 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 380-480 V
	Rated current:	43.5-35.0 A
	Cos phi - power factor:	0.91-0.90
	Rated speed:	480-3540 rpm
	Efficiency:	IE3 92,7%
	Motor efficiency at full load:	92.7 %
	Number of poles:	2
	Enclosure class (IEC 34-5): Insulation class (IEC 85):	IP55 F
	Motor No:	F 85901267
	Others:	
	Minimum efficiency index, MEI ≥	
	Net weight:	217 kg
	Gross weight:	242 kg
	Shipping volume:	0.707 m <sup>3</sup>
	Danish VVS No.:	386104166
	Country of origin: Custom tariff no.:	HU 84139100
		64139100

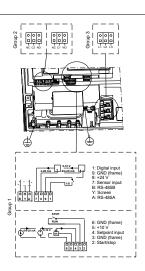


Description	Value
General information:	NDE 90 160/467
Product name:	NBE 80-160/167 AAF2AESBQQEQW1
Product No:	96645314
EAN number:	5700836567689
Technical:	
Pump speed on which pump data are based:	2940 rpm
Rated flow:	199.7 m³/h
Rated head	28.37 m
Actual impeller diameter:	167 mm
Nominal impeller diameter:	160
Shaft seal arrangement:	Single
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	Α
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 CED
Internal pump house coating: Material code:	A
Code for rubber:	F
Shaft:	L Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Installation:	
Range of ambient temperature:	-20 40 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 100
Size of outlet connection:	DN 80
Pressure rating for connection:	PN 16
Bearing lubrication:	Grease
Pump housing with feet:	No
Support block (Yes/No):	Ν
Connect code:	F2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 120 °C
Selected liquid temperature:	20 °C
Density: Electrical data:	998.2 kg/m³
	123
IE Efficiency class: Rated power - P2:	IE3 22 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-480 V
Rated current:	43.5-35.0 A
Cos phi - power factor:	0.91-0.90
Rated speed:	480-3540 rpm
Efficiency:	IE3 92,7%
Motor efficiency at full load:	92.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	YES
Motor No:	85901267
Mount. design. acc. IEC 34-7:	IM B35

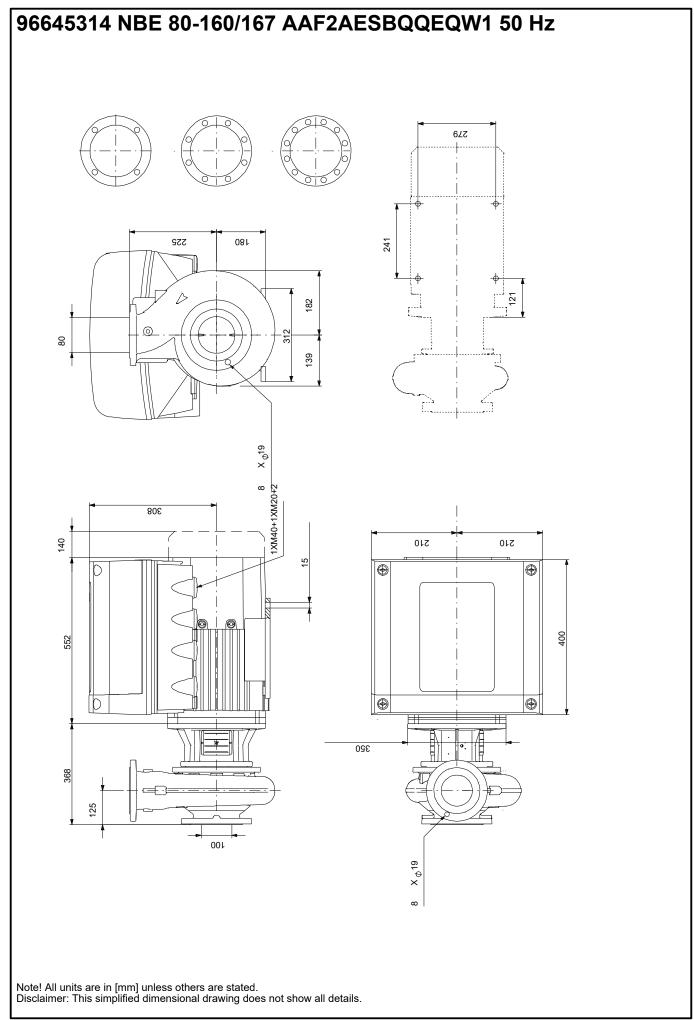


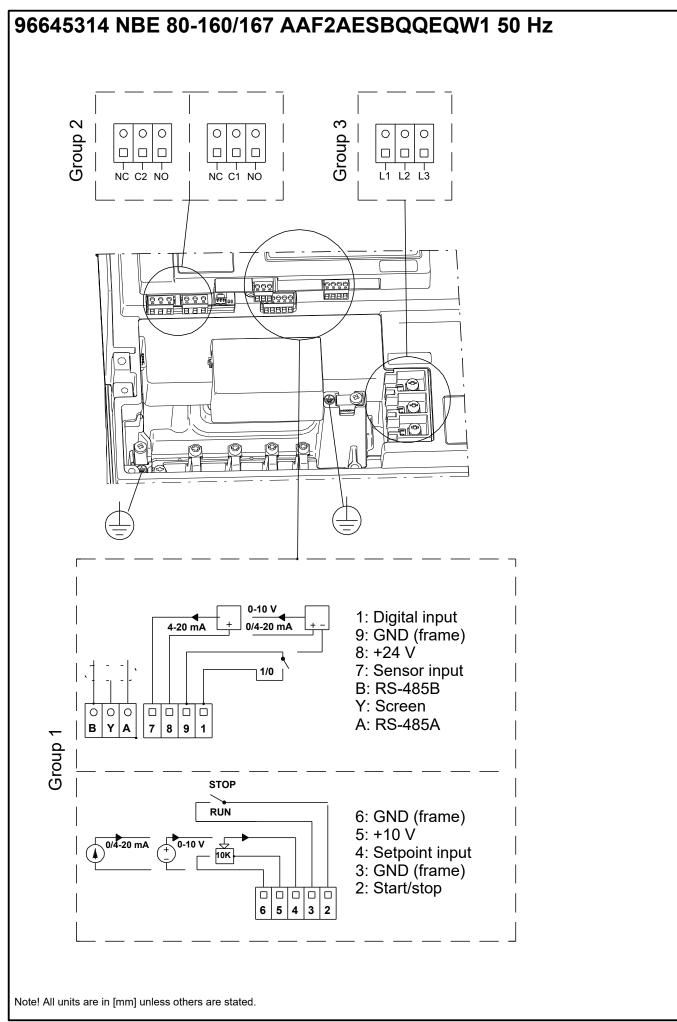






Description	Value		
Controls:			
Control panel:	Standard		
Function Module:	PUMP I/O		
Frequency converter:	Built-in		
Pressure sensor:	Ν		
Others:			
Minimum efficiency index, MEI ≥:	0.70		
Net weight:	217 kg		
Gross weight:	242 kg		
Shipping volume:	0.707 m³		
Danish VVS No.:	386104166		
Country of origin:	HU		
Custom tariff no.:	84139100		





Order Data:							
Position	Your pos.	Product name	Amount	Product No	Total		
		NBE 80-160/167	1	96645314	Price o reques		
					reques		