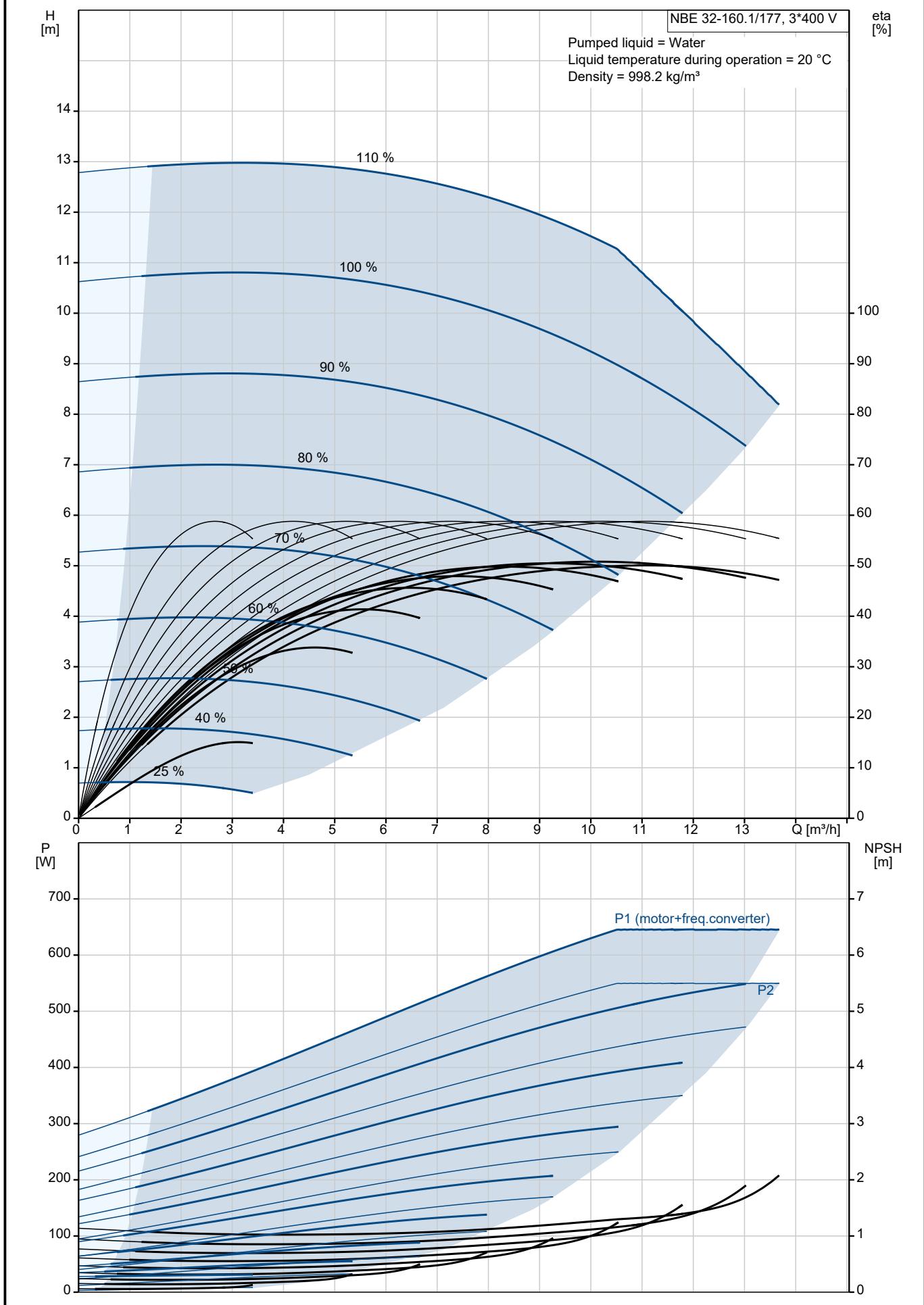


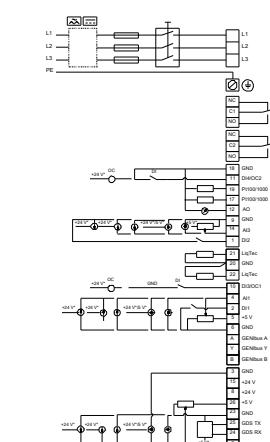
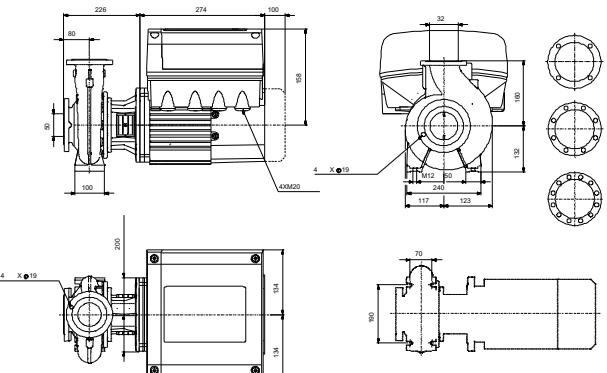
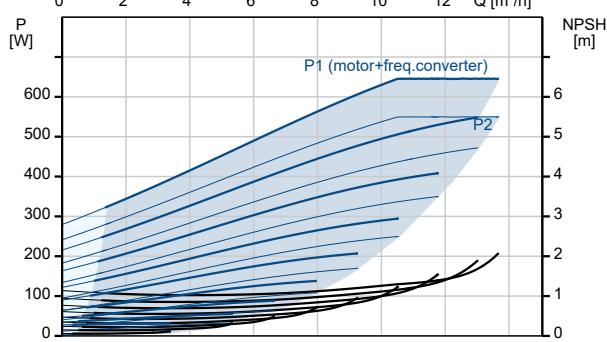
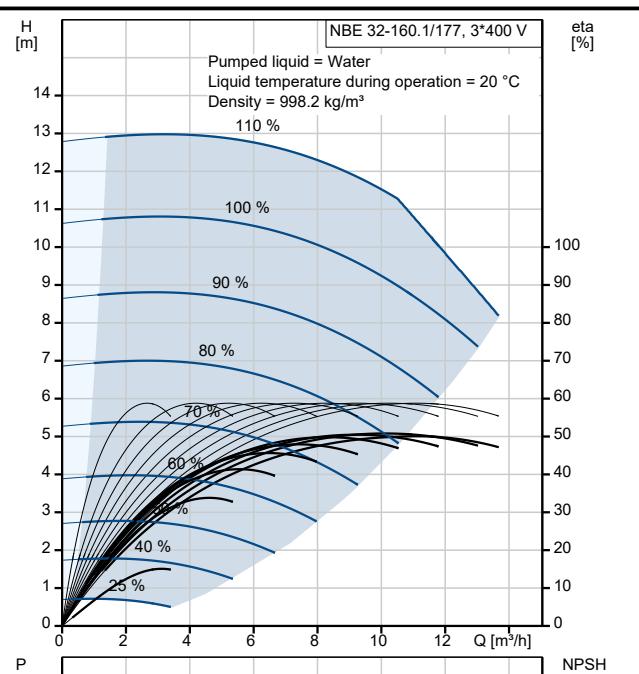
Qty.	Description																																																				
1	<p>NBE 32-160.1/177 AAF2AESBQQEEWA</p>  <p>Note! Product picture may differ from actual product</p> <p>Product No.: 98890805</p> <p>Non-self-priming, single-stage, centrifugal volute pump designed according to ISO 5199 with dimensions and rated performance according to EN 733 (10 bar).</p> <p>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.</p> <p>The unbalanced rubber bellows seal is according to DIN EN 12756.</p> <p>The pump is close-coupled to a fan-cooled, permanent-magnet synchronous motor.</p> <p>The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement.</p> <p>Controls:</p> <table> <tr> <td>Frequency converter:</td> <td>Built-in</td> </tr> <tr> <td>Pressure sensor:</td> <td>N</td> </tr> </table> <p>Liquid:</p> <table> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>-25 .. 120 °C</td> </tr> <tr> <td>Selected liquid temperature:</td> <td>20 °C</td> </tr> <tr> <td>Density:</td> <td>998.2 kg/m³</td> </tr> </table> <p>Technical:</p> <table> <tr> <td>Pump speed on which pump data are based:</td> <td>1450 rpm</td> </tr> <tr> <td>Rated flow:</td> <td>10.7 m³/h</td> </tr> <tr> <td>Rated head:</td> <td>8.8 m</td> </tr> <tr> <td>Actual impeller diameter:</td> <td>177 mm</td> </tr> <tr> <td>Nominal impeller diameter:</td> <td>160.1</td> </tr> <tr> <td>Shaft seal arrangement:</td> <td>Single</td> </tr> <tr> <td>Code for shaft seal:</td> <td>BQQE</td> </tr> <tr> <td>Curve tolerance:</td> <td>ISO9906:2012 3B2</td> </tr> <tr> <td>Bearing design:</td> <td>Standard</td> </tr> </table> <p>Materials:</p> <table> <tr> <td>Pump housing:</td> <td>Cast iron EN-GJL-250 ASTM class 35</td> </tr> <tr> <td>Wear ring:</td> <td>Brass</td> </tr> <tr> <td>Impeller:</td> <td>Cast iron EN-GJL-200 ASTM class 30</td> </tr> <tr> <td>Internal pump house coating:</td> <td>CED</td> </tr> <tr> <td>Shaft:</td> <td>Stainless steel EN 1.4301 AISI 304</td> </tr> </table> <p>Installation:</p> <table> <tr> <td>Range of ambient temperature:</td> <td>-20 .. 50 °C</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>16 bar</td> </tr> <tr> <td>Pipe connection standard:</td> <td>EN 1092-2</td> </tr> <tr> <td>Size of inlet connection:</td> <td>DN 50</td> </tr> <tr> <td>Size of outlet connection:</td> <td>DN 32</td> </tr> <tr> <td>Pressure rating for connection:</td> <td>PN 16</td> </tr> </table>	Frequency converter:	Built-in	Pressure sensor:	N	Pumped liquid:	Water	Liquid temperature range:	-25 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m³	Pump speed on which pump data are based:	1450 rpm	Rated flow:	10.7 m³/h	Rated head:	8.8 m	Actual impeller diameter:	177 mm	Nominal impeller diameter:	160.1	Shaft seal arrangement:	Single	Code for shaft seal:	BQQE	Curve tolerance:	ISO9906:2012 3B2	Bearing design:	Standard	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 EN 1.4301 AISI 304	Range of ambient temperature:	-20 .. 50 °C	Maximum operating pressure:	16 bar	Pipe connection standard:	EN 1092-2	Size of inlet connection:	DN 50	Size of outlet connection:	DN 32	Pressure rating for connection:	PN 16
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Qty.	Description
1	<p>Bearing lubrication: Grease</p> <p>Pump housing with feet: Yes</p> <p>Support block (Yes/No): N</p> <p>Electrical data:</p> <p>IE Efficiency class: IE5</p> <p>Rated power - P2: 0.55 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-500 V</p> <p>Rated current: 1.30-1.25 A</p> <p>Cos phi - power factor: 0.80-0.64</p> <p>Rated speed: 180-2000 rpm</p> <p>Efficiency: 84.6%</p> <p>Motor efficiency at full load: 84.6 %</p> <p>Number of poles: 4</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No.: 99305806</p> <p>Bearing insulation type N-end: STEEL BEARING</p> <p>Others:</p> <p>Minimum efficiency index, MEI \geq: 0.70</p> <p>Net weight: 38 kg</p> <p>Gross weight: 48 kg</p> <p>Shipping volume: 0.134 m³</p> <p>Danish VVS No.: 386100184</p> <p>Country of origin: HU</p> <p>Custom tariff no.: 84137051</p>

98890805 NBE 32-160.1/177 AAF2AESBQQEEWA 50 Hz

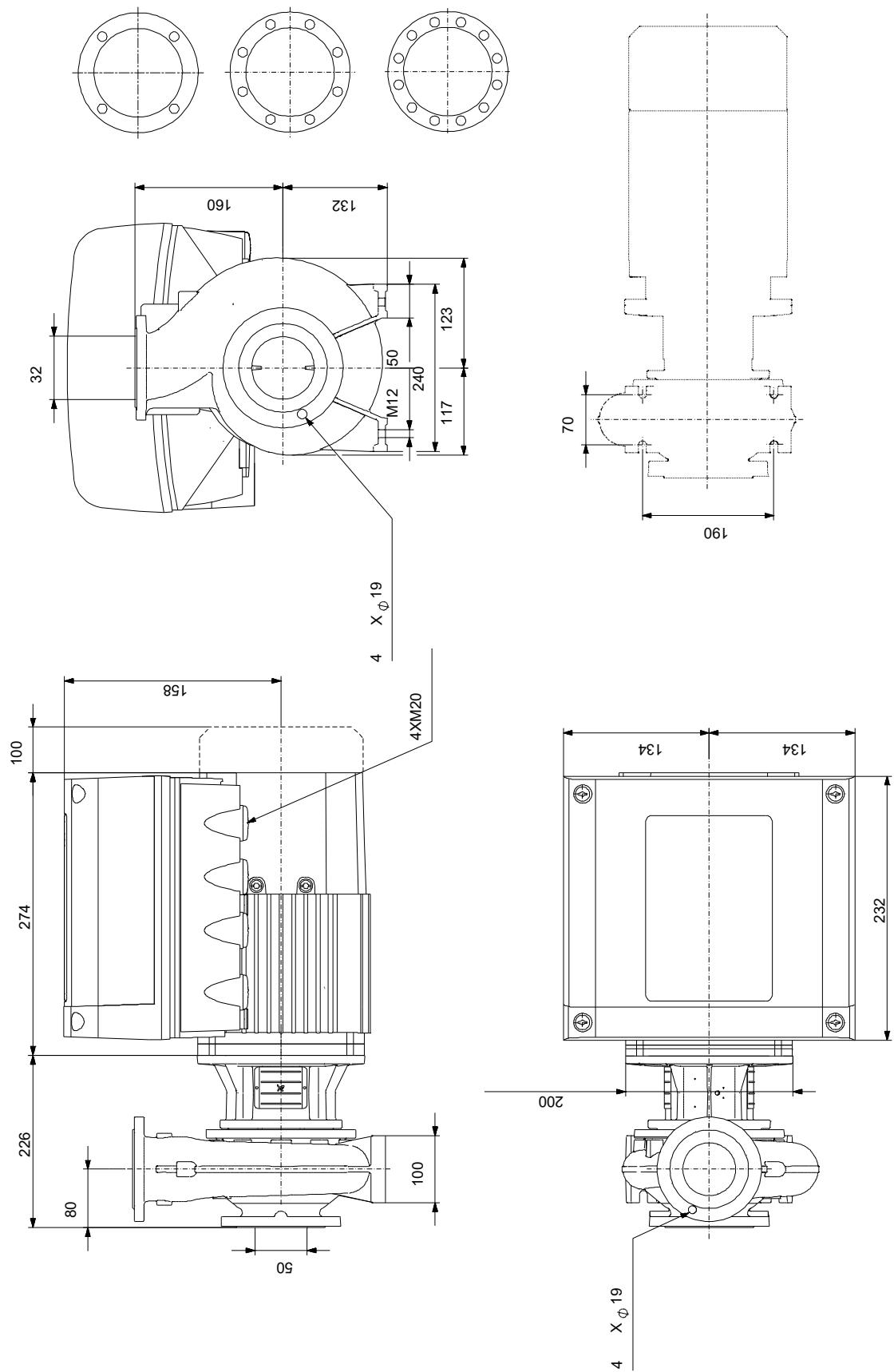


Description	Value
General information:	
Product name:	NBE 32-160.1/177 AAF2AESBQQEEWA
Product No:	98890805
EAN number:	5712603032436
Technical:	
Pump speed on which pump data are based:	1450 rpm
Rated flow:	10.7 m ³ /h
Rated head:	8.8 m
Actual impeller diameter:	177 mm
Nominal impeller diameter:	160.1
Shaft seal arrangement:	Single
Shaft diameter:	24 mm
Code for shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B2
Pump version:	A
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:	A
Code for rubber:	E
Shaft:	Stainless steel
Shaft:	EN 1.4301
Shaft:	AISI 304
Installation:	
Range of ambient temperature:	-20 .. 50 °C
Maximum operating pressure:	16 bar
Pipe connection standard:	EN 1092-2
Size of inlet connection:	DN 50
Size of outlet connection:	DN 32
Pressure rating for connection:	PN 16
Bearing lubrication:	Grease
Pump housing with feet:	Yes
Support block (Yes/No):	N
Connect code:	F2
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
IE Efficiency class:	IE5
Rated power - P2:	0.55 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-500 V
Rated current:	1.30-1.25 A
Cos phi - power factor:	0.80-0.64
Rated speed:	180-2000 rpm
Efficiency:	84.6%
Motor efficiency at full load:	84.6 %
Number of poles:	4
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	ELEC
Motor No:	99305806
Mount. design. acc. IEC 34-7:	IM V1/B5



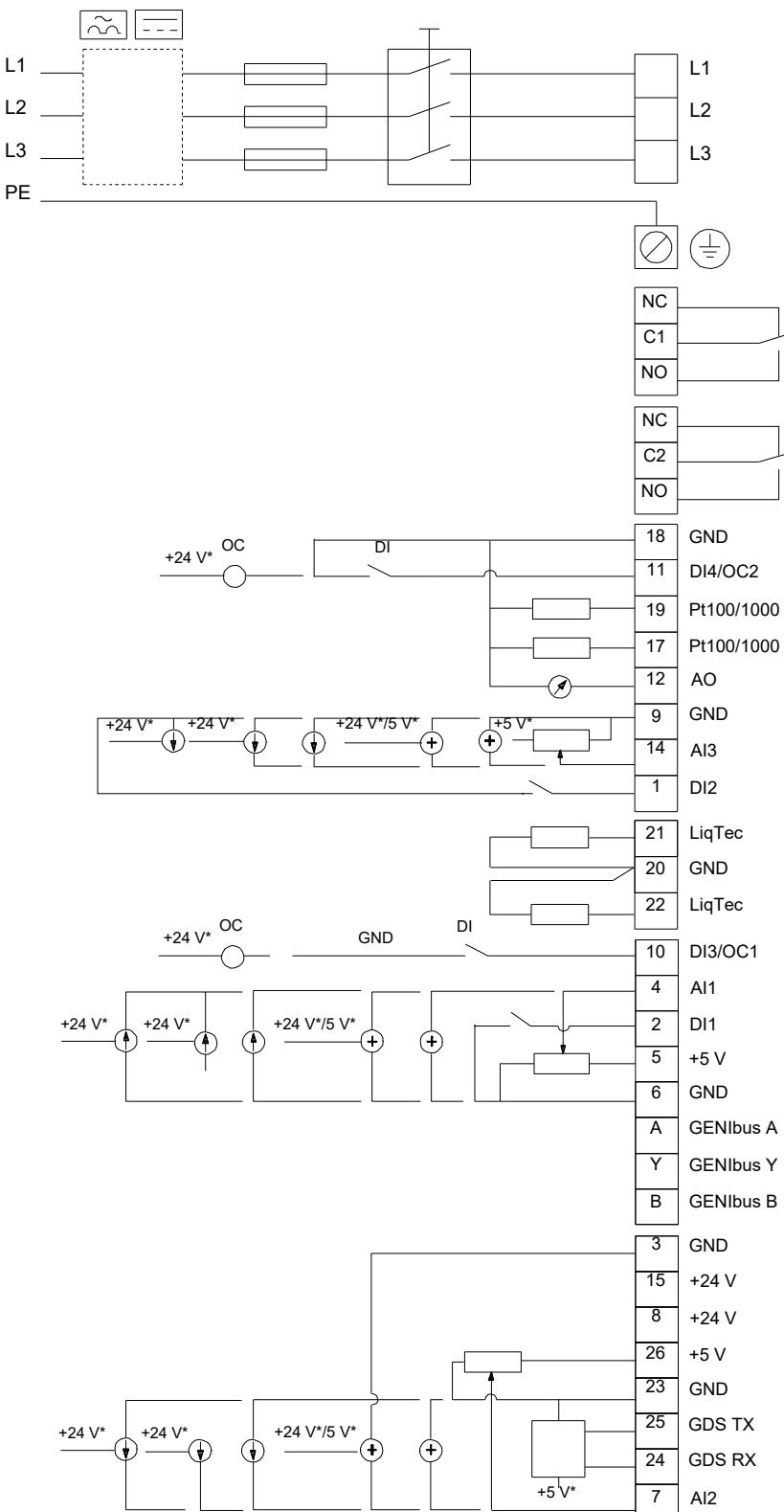
Description	Value
Bearing insulation type N-end:	STEEL BEARING
Controls:	
Control panel:	HMI300 - Graphical
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	N
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	38 kg
Gross weight:	48 kg
Shipping volume:	0.134 m ³
Danish VVS No.:	386100184
Country of origin:	HU
Custom tariff no.:	84137051

98890805 NBE 32-160.1/177 AAF2AESBQQEEWA 50 Hz



Note! All units are in [mm] unless others are stated.
 Disclaimer: This simplified dimensional drawing does not show all details.

98890805 NBE 32-160.1/177 AAF2AESBQQEEWA 50 Hz



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

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		NBE 32-160.1/177	1	98890805	Price on request