

General Data

Model:	DNB 80-2/220 T
Code:	2001544
Series:	DNB
Weight [Kg]	34.50
Submersible eletropumps for wastewater including sewage	

Hydraulic

Impeller Type:	Twin channel S-flow impeller
Delivery DN [mm]:	DN80 PN16
Input DN [mm]:	80
Free Passage [mm]:	70
Impeller Ø [mm]:	115
Max Pump Efficiency [%]:	54.10
Global Efficiency [%]:	47.23
Head [m]:	8.01
Flow [m³/h]:	50.40

Tolerance according to ISO 9906:2012 3B2



Attention: pictures for illustrative purposes

Features

Upper Meccanical seal:	CA/CE/Viton
Lower Meccanical Seal:	SIC/SIC/Viton
Upper Bearing:	Single raw ball bearing
Lower Bearing:	Single raw ball bearing
IP Protection:	IP68
Motor protection:	present
Humidity sensor:	not present
ATEX:	not present
Applied Paint:	Two component water-based paint
Cable Length [m]:	10
Lubricating Oil:	Q8 WF15
Oil Quantity [Kg]:	0.28

Materials

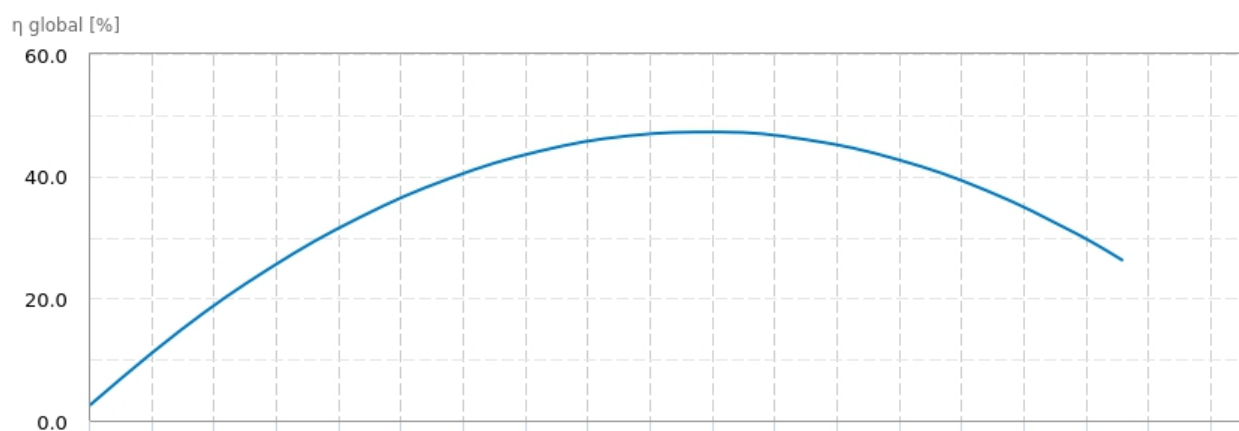
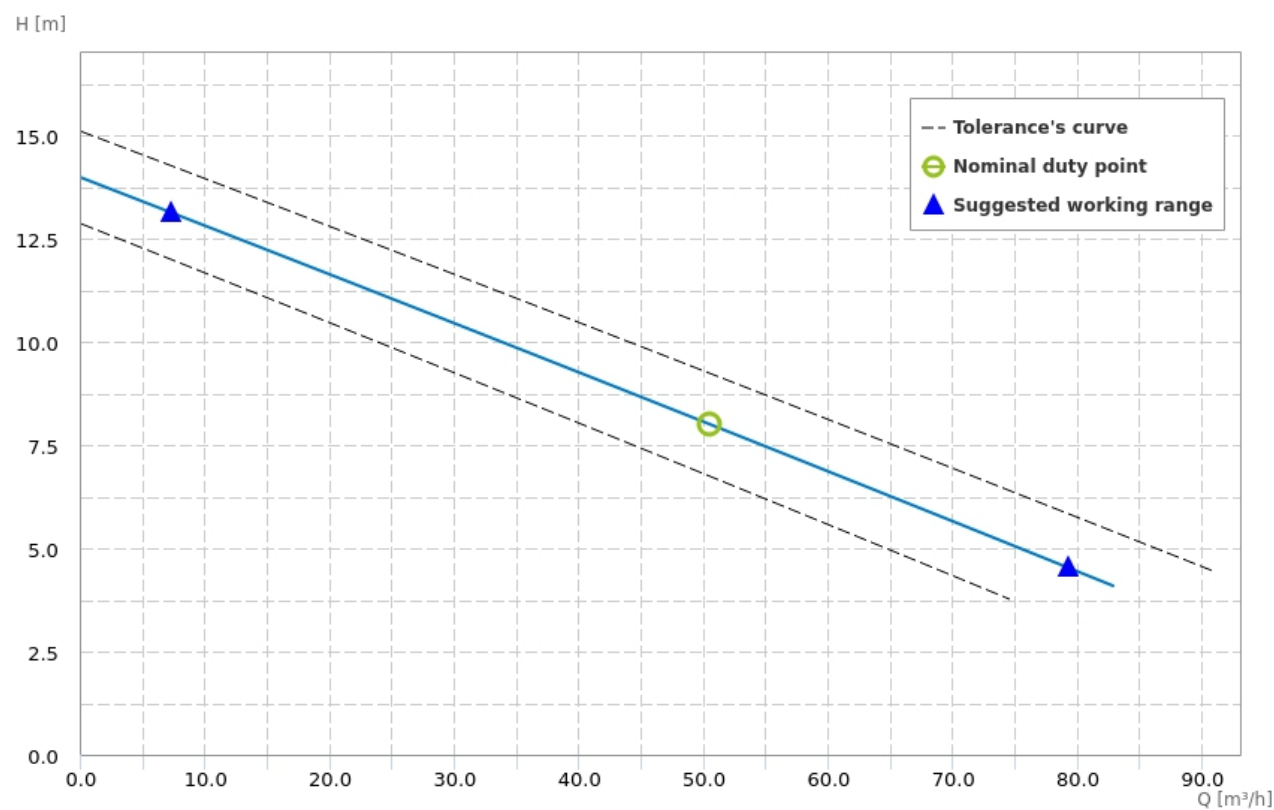
Pump:	Cast Iron EN 1561 EN-GJL-200
Impeller:	Cast iron EN 1561 EN-GJL-200
Motor shaft:	Stainless steel AISI 420
Cooling Jacket:	Not available
Screw:	Stainless steel A2-70
Cable:	H07RN8F

Pumped Liquid

Pumped Liquid:	Light and lightly sewage
Density [Kg/dm³]:	1.1
pH:	6-10
Temperature Range:	0-40°C

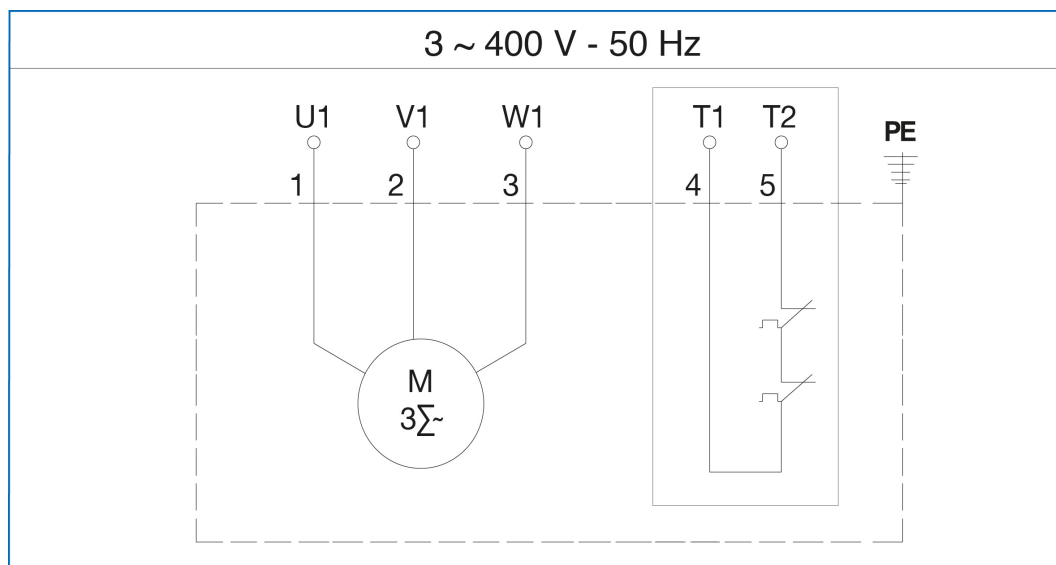
Installation

Maximum depth of immersion [m]:	20
Cooling Type:	The cooling of the motor is ensured by the surrounding liquid
Installation:	Vertical
Floating on board machine:	not present



Motor

Motor code:	3520200215
Power P1 [kW]:	2.90
Power P2 [kW]:	2.20
Phases:	3
Frequency [Hz]:	50
Tension [V]:	400
Nominal current [A]:	5.5
Starting current [%]:	546.0
Power Factor:	0.78
R.P.M.:	2850
Starting:	D.O.L
Capacitor [μF]:	-
Insulation Class:	F 155°C
Service type:	S2
Max Efficiency [%]:	85.90
Max Efficiency at full load [%]:	85.1
Efficiency at ¾ load [%]:	85.2
Efficiency at ½ load [%]:	85.5
Efficiency class:	-

Wiring diagrams

Dimensions drawing

