

Siwatec, a.s.
77200 OLOMOUC
TSCHECHISCHE REPUBLIK

Order number 26182024
Date 2010/03/11
Client number 00026490

Our position: 0010 NEMO Pump assembly with base and drive Typ NM148

The pump is designed for 24h operation at differential pressure of 120bar!
For water application.

medium:

pumped medium:		Water, Chloride
chemical formula:		max. 3800mg/l
Specific gravity:	kg/dm ³	1,00
Particle size:	mm	0,1
pH value:		7-7,35
solids content:	%	1
dynamic viscosity:	mPa·s	1
kinetic viscosity:	mm ² /s	1,00

performance:

	Content	Q-nominal	Q-minimum	Q-maximum
Flow rate:	m ³ /h	8,50		
Differential pressure:	bar	120,00		
Suction pressure:	bar			0,50
Discharge pressure:	bar			120,50
Rotational speed:	l/min	191,00		
Frequency:	Hz			
Power required at drive shaft:	kW	48,00		
Running torque:	Nm	2400,00		
Starting torque:	Nm	2626,00		
Operating temperature:	°C		5	25

Aggregat

Execution:
installation: horizontal

general conditions:

Installation area: in building or outside covered!
Ambient temperature: approx. 20°C
humidity: up to 50%
operating mode: Continuous operation
operating hours: 24 h/day
service voltage (V): 400 Volt
number of phases: 3
operating frequency: 50

Painting:

coating system: Manufacturer standard
assembly colour: Manufacturer standard

operating and maintenance instruction:

number: 1
medium: Paper
language for O&M's: English
language for spare parts ist: English
despatch method: packed with pump
number: 1

Bankverbindungen:

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medium:	CD
language for 2nd O&M's:	English
language for 2nd spare parts list:	English
despatch method for 2nd O&M's:	by mail
number:	1
	+ 1 x GERMANY
medium:	Paper
language for 3rd O&M's:	Czech
language for 3rd spare parts list:	English
despatch method for 3rd O&M's:	packed with pump
number:	1
medium:	CD
language for 4th O&M's:	Czech
language for 4th spare parts list:	English
despatch method for 4th O&M's:	by mail

Documentation:	
G.A. drawing - assembly:	in advance 12.02.2010 with Offshoretale incl. weights
quantity of G.A. drawings:	1
EU Machine Regulations:	Declaration of Incorporation
test report:	with
material test certificate:	EN10204-2.1 (DIN50049-2.1)
Additional_documentation:	Dy penetrant and radiographic test

NEMO-Industrial pump

types:	
pump type:	NMI48 /125SY-12Z/V/NTZ400*150DT110

general characteristics:	
sense of rotation:	to the left, viewed on drive shaft
name plate:	in German/English (Stainless steel)
specification:	standard (with logo)

bearing flange:	
special bearing housing design:	NX501

pump-housing / discharge flange:	
housing material:	Cast iron GG25
housing surface:	Halar coated internally
flange position:	vertically upwards
function of housing connection:	suction connection
flange design:	Flange design to DIN2501
pipe diameter and nominal pressure on pump housing:	DN250 PN16
discharge flange material:	Cr-Ni-Mo17-12-2
discharge flange design:	Flange design to DIN2501
discharge flange nd:	100/160
function:	pressure connection
housing seals:	FPM

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shaft sealing:
type: Gland packing
shaft seal materials: Aramid

rotating parts:
rotating parts materials: AISI 316

joints:
joint type: pin joint with wear bushes
joint seal. execution: SM Pin joint seal
joint sealing material: FPM/1.4401
joint lubrication: Mineral oil

rotor:
rotor material: AISI630
temperature range: 20°C normal size

stator:
stator material: NEMOLAST S65L (NBR02)
special design: 7xsupport feet for stator

Baseplate:
Divided Construction, 3 pieces:
Base frame with lifting lugs
material: steel
coupling: Rotex
coupling guard: Standard (in material AISI 304)

Helical-Geared Motor

Make/type:
manufacturer: Nord
type: SK82-280S/4 TF

Execution:
mounting position: M1
drive ratio: 7,39 i
winding voltage (V): 400
frequency (Hz): 50 Hz
number of phases: 3
power (kW): 75,00 kW
speed (rpm): 201 rpm
drive speed: 1485 rpm
protection type: IP55
insulation class: F, used in accordance with B
thermal monitoring: winding protect. with 3PTC without trip
terminal box: 2 (n.WN0163)
drive shaft / driven shaft diameters (mm):
90
shaft length (mm): 170 mm
special execution: Angebot 100047062