

Data Sheet

Quotation-No. 24688144

Item 10 1 PC Centrifugal Pump NTT 65-250/02/262 U5A-W4
horizontal on base plate

Operating conditions

Pumped liquid	: Fuel oil		Deliveryflow	: 150	m ³ /h
Working temp. tA	: 170	° C	Inlet pressure	: 0,1	bar
Density at tA	: 0,85	kg/dm ³	Outlet pressure	: 7,2	bar
Vapour pressure at tA	: 1,0	bar(a)	Delivery head	: 85	m
Viscosity at tA	: 75	mm ² /s	Speed	: 2.900	1/min
Solide content	: ---	%	Power absorbed	: 47,6	kW
Grain size	: ---	mm	Req. drive	: 55	kW
NPSH-avail.	: ---	m	Capacity & efficiency	: ISO 9906 Class 3B	
NPSH-req.	: 6,8	m	Guarantee specific.	: Q, H	
Efficiency hydr.	: 62,1	%	Impeller-Ø construed	: 262	mm

Design features

Connection Inlet according to	: DN 80 EN1092-2/21/B, PN16	Connection Discharge according to	: DN 65 EN1092-2/21/B, PN16
Flange outer diameter and flange thickness could be larger than that of the rating specified			
Branch emplacement	: Axial	Branch emplacement	: Radial
Bearing	Antifricition bearing Lubrication by Medium/Antifricition bearing Lubrication by Grease		
Sense of rotation	cw (seen from driving side)		
No. of stages	: 1		
Shaftsealing	: Mech. Seal uncooled unbalanced , U5A Material AQ1VGG		
perm. Design pressure:	15 bar at 170° C		

Connections

Draining G3/8
Leackage outlet G1/4
Venting G1/4
Measurement connection for temperature on drive side bearing M8
Measurement connection for vibration on drive side bearing M8

Materials

Casing	: EN-GJS-400-15	Impeller	: EN-GJL-200
Pump shaft	: 1.7139	Bearing bracket	: EN-GJL-250
Casing cover	: EN-GJS-400-15		
Casing Seal	: Graphite w. stainl. steel		

Pump/motor assembly parts

Coupling : Spacer coupling double gimballled, Size HA 05, Spacer length 100
Base plate : Material 1.0038, Size U 13.6

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Drive

Drive type	: Three-phase motor	Size / Number of poles :	250M / 2
Installation	: B3	Voltage / Frequency :	400 D / 50 V / Hz
Nominal power	: 55 kW	Enclosure	: IP55
Speed at 50 Hz	: 2.900 1/min	Insulation / temp rise	: F / B
Efficiency class	: IE3		
Brand	: Motor of our choice		
Features	: Thermistors 3 x PTC		

Remarks:

The manufacturer herewith declares that the product is free of asbestos according to the regulation of SOLAS. All pressures in bar are over pressure unless otherwise stated.

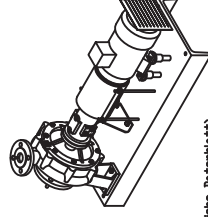
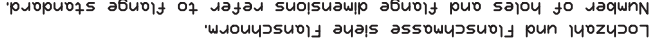
The pump is designed for the operating temperature. Cold starting is not taken into account.

In NPSH required a safety margin of 0,5 m is added to NPSH 3% (according to the curves).

The ecodesign regulations (EC) No 640/2009 and (EC) No 4/2014 on the implementation of Directive 2009/125/EC with regard to the settings of ecodesign requirements for electric motors requires that, effective 1/1/2015, the drives with the rated power of 7.5 - 375 KW must meet the efficiency of IE3 motors or IE2 motors with speed control.

From 1/1/2017, the same requirements will apply to motors with a rated output of 0.75 - 375 kW. This applies to deliveries to the European Union.

Zelchnung nicht massstaeblich / Drawing not-to-scale



Flansche nach Norm (siehe Datenblatt)
Flanges standard (refer to data sheet)

VM2	Vibrationsmessung / Vibration measurement	M8
TM3	Temperaturmessung / Temperature measurement	M8
Hilfsschluesse / Auxiliary connections		
FV	Foerdergut-Entlueftung / Liquid vent	G1/4
L0	Leckage-Austritt / Leakage outlet	G1/4
FF	Foerdergut-Auffuellung / Liquid recharging	G1/4
FD	Foerdergut-Entleerung / Liquid drain	G3/8
Zeichen Symbol	Anschlusssbezeichnung / Connection designation	Grossze Size

Permissible tolerances for
dimensions without tolerancing
acc. to DIN EN 735

Einbauzeichnung / Dimension drawing
NTT 65-250 - Motor 250M-2pol
Ausbaueinzelteil DK / Coupling with spacer

Werk Radolfzell
Postfach 1140 D-78301 Radolfzell

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