

Customer pos. no.: PU ME 80 A/B
 Purchase order date: 05.08.2009
 Your P/O no.: B09M0162
 Qty.: 2

Number: 9971596556-044
 Pos-Nr.: 000300
 Date: 28.08.2009
 Page: 1 of 2

**Centr. pump with non-clogging imp.
 KWP K 65-400**

Operating Data

Flow rate	92	m3/h
min. required	18,4	m3/h
Discharge head	30,5	m
Pump NPSH	3,2	m
Inlet pressure	0,1	bar
Outlet pressure	3,11	bar
Allow. dischr. pressure (t/o)	10	bar
Efficiency	60,3	%

Pumped product	water
-"-	5000ppm iron oxid fines
Operating temperature t/o	65 °C
Density (t/o)	1,005 kg/dm3
Viscosity (t/o)	1 mm2/s
Power input of pump (P2)	12,7 kW
Design speed	1465 1/min

Design

Number of vanes	2
Impeller diameter	333 mm
Impeller outlet width	78x34
Suct. nozzle DN	80 mm
Position	axial
Disch. nozzle DN	65 mm
PN / Standard	ASME/Class 150
Position	top !
Drilled	RF drilled
Explosion protection to ATEX	no

Shaft seal	Stuffing box I
Installation drawing	W221387
Code product side	Ramie fibre/PTFE
Sealing liquid quantity	2 l/min
Sealing liquid pressure	2,9 bar
Bearing bracket	P04AX

Accessories, Drive

Drive	Electric motor
Make	KSB EFF1
Supplied by	Driver supplied by KSB
Type of construction	B3
Motor size	180L
Nominal voltage	400/690V
Frequency	50 Hz
Rated power P2	22 kW
Thermal class	F
Type of protection	IP55
Thermal motor protection	3

Coupling	Eupex
Type / Size	N-H / 125
Spacer	140 mm
Baseplate	7S

Oil for first filling



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Materials

Volute casing	NORIHARD	Pump shaft	C45 + N
Suc. side wear plate	NORIHARD	Shaft protecting sleeve	1.4122 HV500
Dis. side wear plate	NORIHARD	Coupling	JL1040
Shaft seal housing	JL1040	Coupling guard	Steel
Impeller	NORIHARD	Baseplate	ST
		Anchor bolts	ST verzkt.

Coating, Packing, Nameplates

Coating	Std.coatg.,top coat syn.enamel	Packaging	seaworthy Packing
Finish coat	RAL 5002, ultramarine blue	Plates	english

Documentation, Certificates

Documentation (Quantity) 5

Qty./language	Customer
Documentation	5 English
Material certific.	5 English
Packed with the pump	1 English
Product tests	5 English

PROD.TESTS /INSPECT. 3.1B to EN10204 consisting of
 *1 non-witnessed, *2 witnessed
 Hydrostatic press. test of cpl. pump set / test 15,0 bar,
 Water at 20 oC, test duration 15 min *1
 Performance test ISO 9906/2A, 5 points *1
 Final inspection *2

MAT. CERTIFICATES 2.2 to EN 10204 consisting of:

Part No.	Description	Material	Certificate No.
101	Pump casing	NORIHARD	13
163	Discharge cover	NORIHARD	13
230	Impeller	NORIHARD	13
210	Shaft	C45+N	4
524	Shaft prot. sleeve	1.4122 HV500	19