

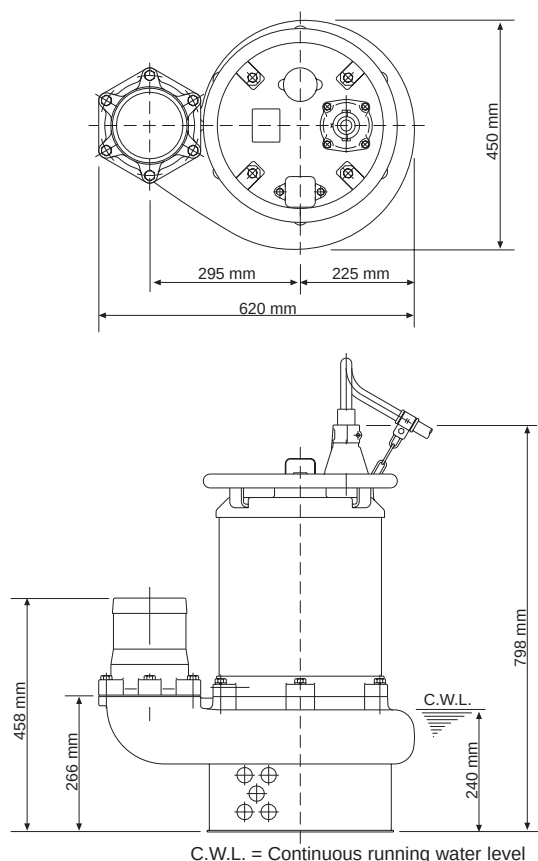


NKZ3-D6

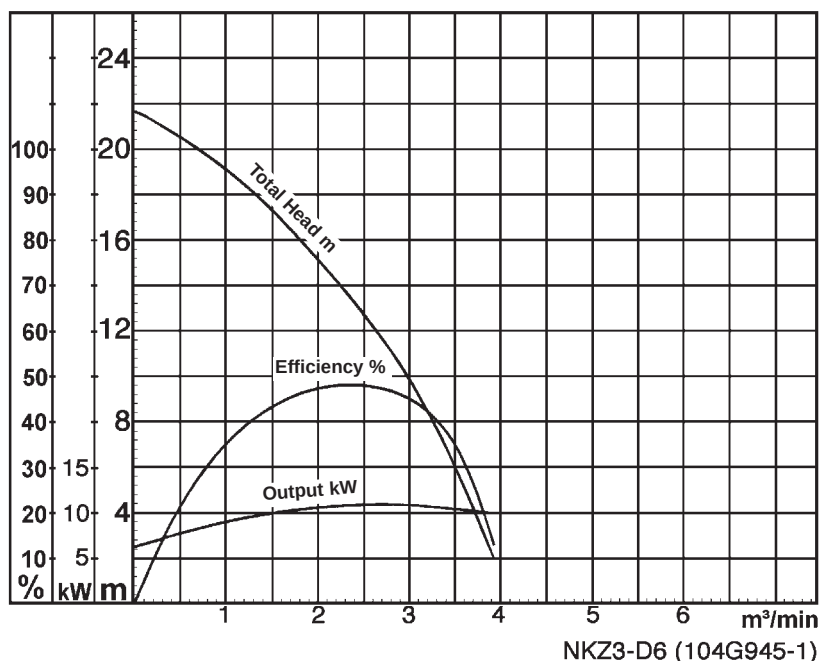
- data sheet
 - parts list
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contractors'
pumps

Data Sheet NKZ3-D6



NKZ3-D6



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 30m
Open type impeller with Agitator
Max. solid handling 30mm
Suitable for sludge, slurry, liquids containing sandy mud and bentonite

Electric Motor

Dry-type submersible induction motor,
Insulation class B, 4 poles, 1450 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 13,4kW
Power output: 11,0kW
Nominal current: 21,8A
Start current: 155,0A

Electric Cable

20m H07RN-F 4Cx4mm²

Motor Protection

Circle thermal protector
(snap-action bi-metal device)

Shaft Seal

Double mechanical seal in oil bath
additional lubrication by oil lifting device
Primary Seal:
silicon carbide on silicon carbide
Secondary Seal:
silicon carbide on silicon carbide

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller:	FCD700 (EN-GJS-700-2)
Agitator:	FCD700 (EN-GJS-700-2)
Casing:	FC200 (EN-GJL-200)
Suction Plate:	FC200 (EN-GJL-200)
Motor frame:	FC150 (EN-GJL-150)
Shaft:	SUS420J2 (EN X30Cr13)

Discharge Connection

6" (100mm) hose coupling

Weight

192 kg (dry weight of the pump without cable)

NKZ3-D6

Control No. NKZ3-4-1-1

07.06.2005

ITEM	CODE No.	DESCRIPTION	Q'TY	SIZE	MATERIAL		REMARKS
1		Cabtyre Cable Set					
2	141-004-17	Hex. Nut	1	M6	SUS304		
3	010-120-18	Cable Clip	1	No. 2-1	SPC		
4	070-107-18	Cable Clamp	1		FC		
5	140-035-14	Hex. Bolt	2	M6x20	SUS304		
6	008-147-17	Mould Cover	1	KR3-9	CR		
7	140-032-11	Hex. Bolt	1	M6x15	SUS304		
8	010-122-10	Cable Clip Rubber	1	No. 2	NBR		
9	009-129-16	Terminal	6	E	CU		
10	002-129-15	Heat Shrink Tube	m	EVA(d14x1t)			
11	002-132-11	Heat Shrink Tube	m	A4(d17x0.3t)			
12	140-055-10	Hex. Bolt	4	M8x25	SUS304		
13	006-127-15	Stuffing Box	1	No. 3	FC		
14	009-101-12	Terminal (C/W Screw)	3	d12x(d6.6xd6.6)x25l	BSBM		
15	095-131-18	Chain	1	d4(3-Link)	SS		
16	070-103-10	L-Shape Fitting	1	KT-55	SPC		
17	143-041-12	Pan Screw	1	M6x8	SWRM		
18	142-162-33	Spring Washer	1	M6	SWRH		
19	009-106-17	Terminal	1	R-8-6	CU		
20	050-368-17	Motor Bracket	1		FC		
21	122-250-11	O-Ring	1	230xd3,8	NBR		*
22		Motor Protector					
23	142-124-20	Plain Washer	2	M4	SPC		
24	142-160-31	Spring Washer	2	M4	SWRH		
25	143-017-19	Pan Screw	2	M4x14	SWRM		
26	142-162-33	Spring Washer	2	M6	SWRH		
27	143-042-13	Pan Screw	2	M6x10	SWRM		
28	055-570-19	Rotor	1 Set				
29	147-024-11	Impeller Key	1	8x8x38l	SUS		
30	011-110-11	Shackle	1	6mm	SS		
31	140-081-15	Hex. Bolt	4	M10x50	SUS304		
32	142-164-19	Spring Washer	4	M10	SUS304		
33	142-128-24	Plain Washer	1	M10	SPC		
34	068-172-17	Handle	1	NKZ2-11kW	SGP+SPC		
35	142-128-11	Plain Washer	4	M10	SUS304		
36	121-343-19	Packing	4	d9,5xd16x5t	NBR		*
37	140-052-17	Hex. Bolt	2	M8x16	SUS304		
38	046-100-16	Air Release Valve	1	NKZ	SPC		
39	203-017-18	Ball	1	d28	NBR		
40	121-151-18	Packing	1	P.C. 80xd50	CR		*
41	058-125-14	Lead Wire Protection Plate	1	d110xd190x1,2t	SPC+NBR		
42	142-199-13	Wave Washer	1	No. 6208/6307	SK-5		
43	052-110-18	Bearing	1	6307ZZC3			
44		Stator					
45	122-161-14	O-Ring	1	G-300	NBR		*
46	065-159-19	Outer Cover	1	NKZ2-11kW	SS		
47	122-161-14	O-Ring	1	G-300	NBR		*
48	064-302-16	Motor Frame	1		FC		
49	122-250-11	O-Ring	1	230xd3,8	NBR		*
50	140-052-33	Hex. Bolt	3	M8x16	SWRM		
51	062-158-19	Bearing Fixing Plate	1	d95xd144x4,5t	SPCC		
52	061-142-17	Bearing Collar	1	d50xd70x3t	SPC		
53	052-113-11	Bearing	1	6310ZZC3			
54	146-029-13	Retaining Ring	1	C50	SK-5		
55	140-099-16	Hex. Bolt	6	M12x40	SUS304		
56	142-165-10	Spring Washer	6	M12	SUS304		
57	060-245-18	Bearing Housing	1		FC		
		< Oil Ring >					
58, 59	143-070-10	Pan Screw	3	M5x6	SWRM		
58, 59	030-110-23	Oil Ring	1	H-30/35	SPC		
		< Oil Lifter >					
58, 59	143-070-23	Pan Screw	2	M5x6	SWRM		
58, 59	030-156-18	Oil Lifter	1	H-35(A)(T)	Resin		
58, 59	143-070-10	Pan Screw	3	M5x6	SWRM		
58, 59	030-150-12	Seal Stopper	1	H-35(A)(T)	SPCC		
60	029-190-10	Oil Casing	1	NKZ2-11kW	FC		
61	122-295-18	O-Ring	1	310xd3,8	NBR		*
62	020-534-13	Pump Casing	1	NKZ2-D6/B6	FC		
63	142-129-25	Plain Washer	3	M12	SPC		
64	144-153-24	Stud Bolt	3	M12x142 (15/28.5)	SUS403		
65	141-007-10	Hex. Nut	3	M12	SUS304		
66	142-164-19	Spring Washer	4	M10	SUS304		

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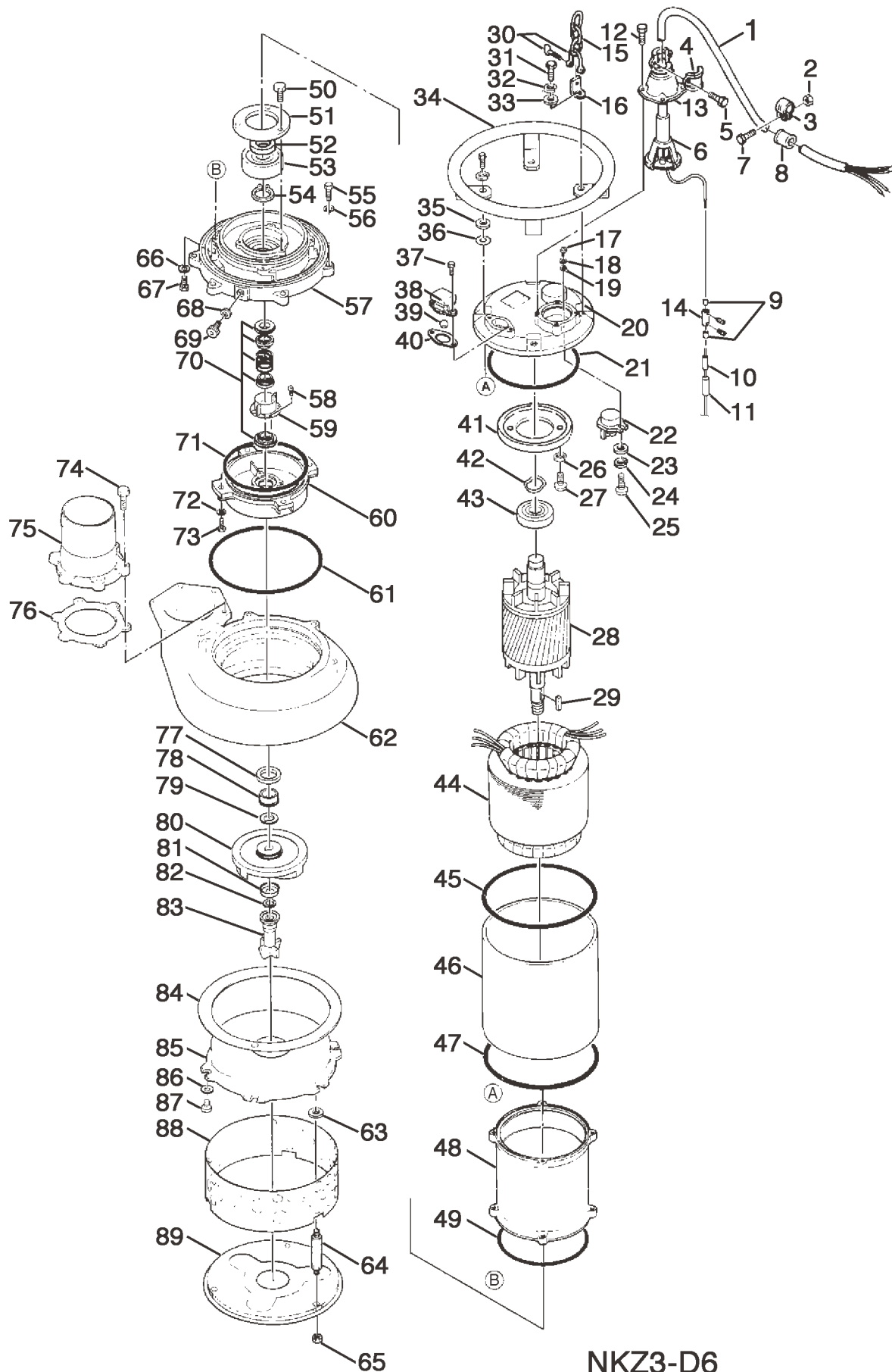
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Control No. NKZ3-4-1-1

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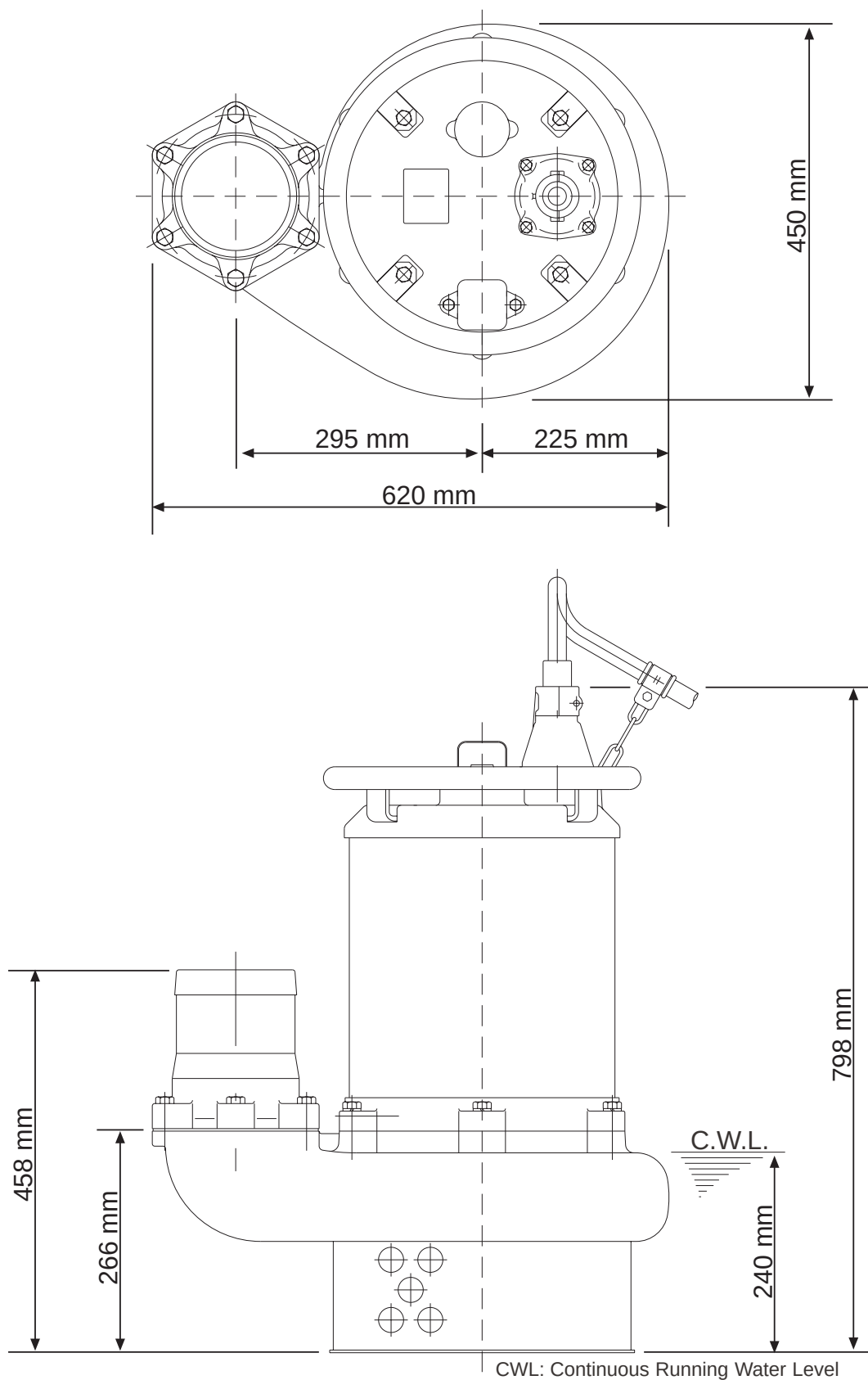
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67	140-079-10	Hex. Bolt	4	M10x40	SUS304		
68	121-247-12	Packing	1	d11,8xd18x2t	PE		*
69	035-113-18	Oil Plug	1	M12x14	SUS304		
70	025-195-13	Mechanical Seal	1	H-35	SiC		Oil (ISO VG32 2500ml)
71	122-251-12	O-Ring	1	205xd3,8	NBR		*
72	142-164-19	Spring Washer	4	M10	SUS304		
73	140-000-01	Hex. Bolt	4	M10x30(B=14)	SUS410		
74	140-101-12	Hex. Bolt	6	M12x50	SUS304		
75	032-139-11	Hose Coupling	1	150mm (NKZ)	FC		
76	121-184-10	Packing	1	NKZ-6"	NBR		*
77	026-123-13	Oil Seal	1	DD-406211	NBR		
78	071-128-47	Shaft Sleeve	1	KRS-7,5/11kW	SUS403		
79	040-110-24	Impeller Shim		d32,5xd58x0,3t	SUS304		
80	021-542-33	Impeller	1	D6 50Hz	FCD		
80	021-543-34	Impeller	1	B6 60Hz	FCD		
81	047-107-16	Impeller Thread Protect. Cover	1	No. 6 (33)	SPC		
82	142-171-19	Spring Washer	1	M30	SUS304		
83	024-116-17	Stirrer	1	No. 2 (M30)	FCD		
84	120-105-14	Packing		d291xd348x0,5t	PE		
85	022-380-21	Suction Cover	1	D6 50Hz	FC		
85	022-526-18	Suction Cover	1	B6 60Hz	FC		
86	142-129-25	Plain Washer	3	M12	SPC		
87	140-097-14	Hex. Bolt	3	M12x30	SUS304		
88	023-278-15	Strainer	1	NKZ2-D6/B6	SPC		
89	049-149-16	Bottom Plate	1	NKZ2-D6/B6	SPC		
*	173-004-16	Packing O-Ring Set	1 Set	(*)			

Exploded View NKZ3-D6



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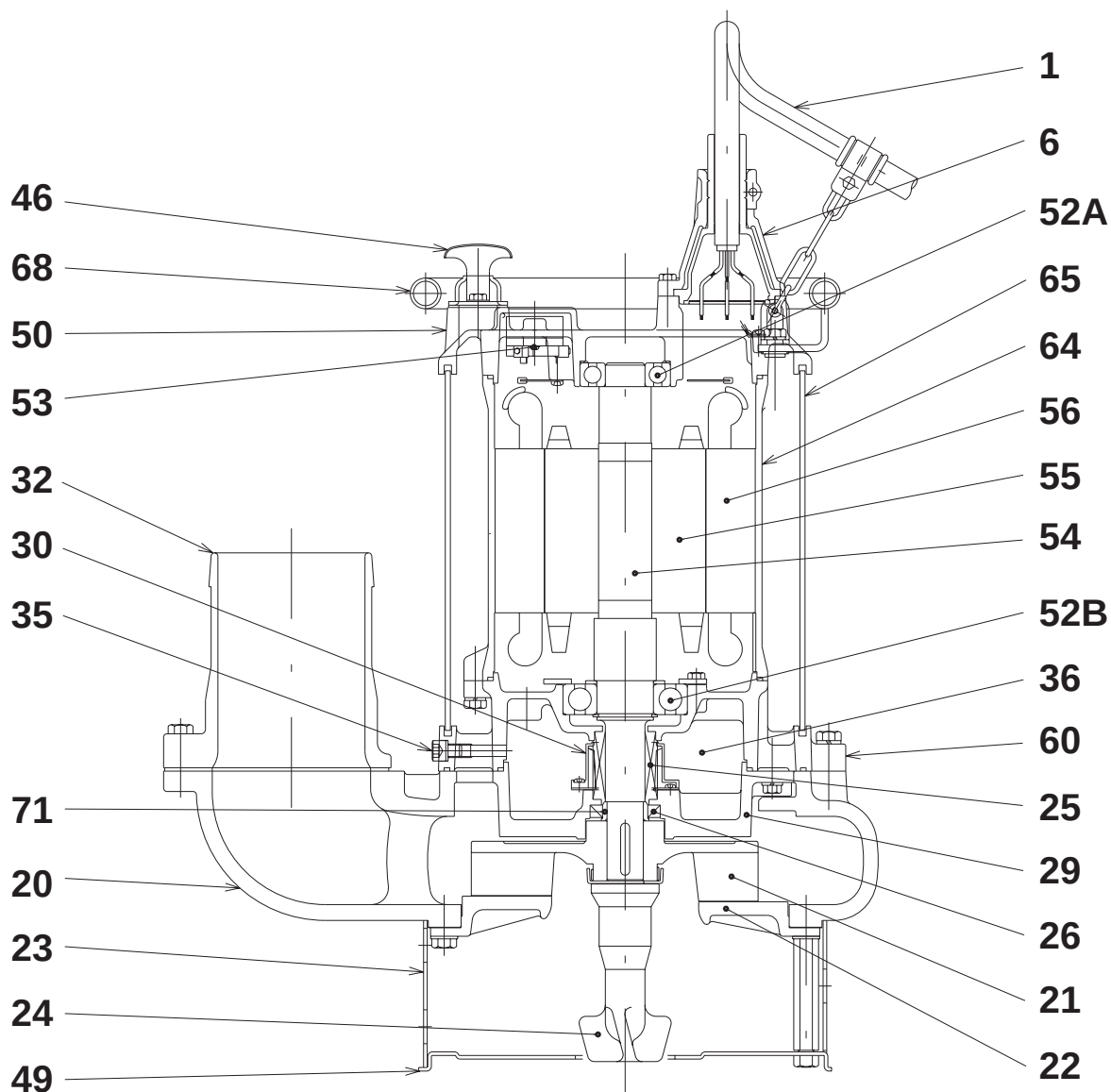
Dimensional Drawing NKZ3-D6



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Sectional Drawing

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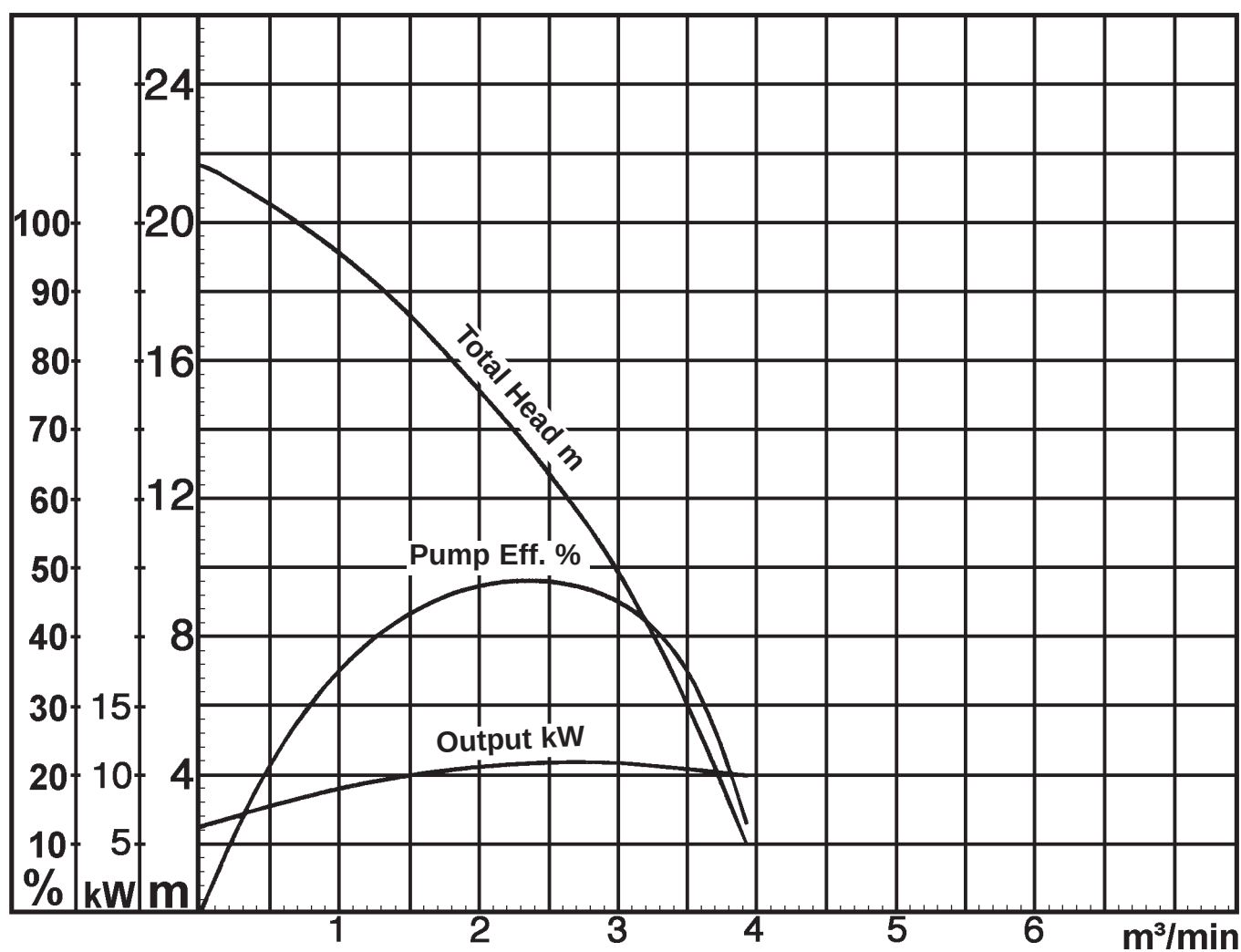
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No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	20m H07RN-F 4Cx4mm ²	49	Bottom Plate	1	Steel Plate SPC
6	Stuffing Box	1	FC200 (EN-GJL-200)	50	Motor bracket	1	FC150 (EN-GJL-150)
20	Pump Casing	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6307ZZC3
21	Impeller	1	FCD700 (EN-GJS-700-2)	52B	Lower Bearing	1	6310ZZC3
22	Suction Cover	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
23	Strainer Stand	1	Steel Plate SPC	54	Shaft	1	SUS420J2 (EN X30Cr13)
24	Stirrer	1	FCD700 (EN-GJS-700-2)	55	Rotor	1	
25	Mechanical Seal	1	H-35	56	Stator Complete	1	
26	Oil Seal	1		60	Bearing Housing	1	FC150 (EN-GJL-150)
29	Oil Casing	1	FC200 (EN-GJL-200)	64	Motor Frame	1	FC150 (EN-GJL-150)
32	Hose Coupling	1	FC200 (EN-GJL-200)	65	Outer Cover	1	SS400 (DIN 1.0040)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	68	Handle	1	Galvanized Steel Pipe SGP
36	Lubricant		Turbine Oil (ISO VG32)	71	Shaft Sleeve	1	SUS403 (EN X6Cr13)
46	Air Release Valve	1	Steel Plate SPCC				

Pump Performance Curve

NKZ3-D6

Discharge Bore	150 mm
Total Head	15 m
Capacity	2,0 m ³ /min
Motor Output	11,0 kW
Motor Input	13,4 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	21,8 A
Starting Current	155,0 A
Poles	4
Revolution	1450 r.p.m.
Starting Method	direct on line
Insulation Class	B



NKZ3-D6 (104G945-1)