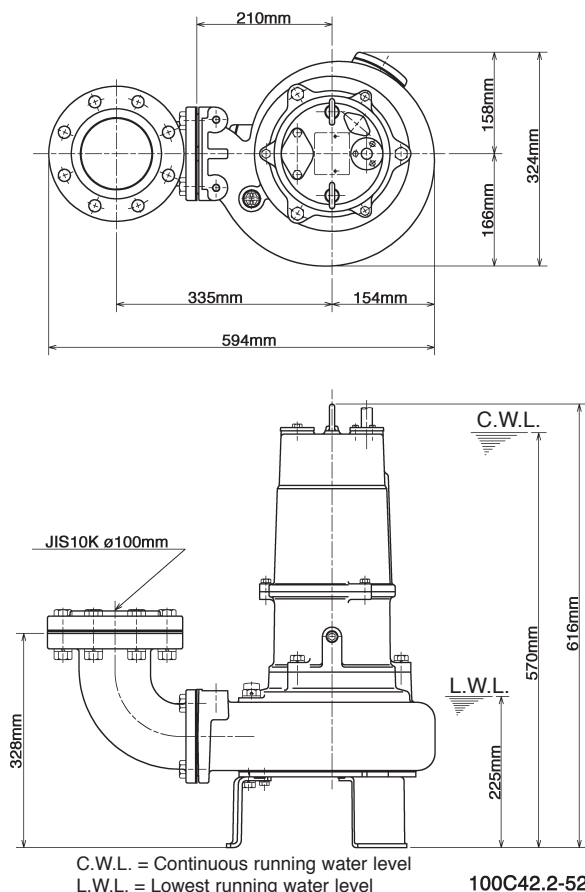




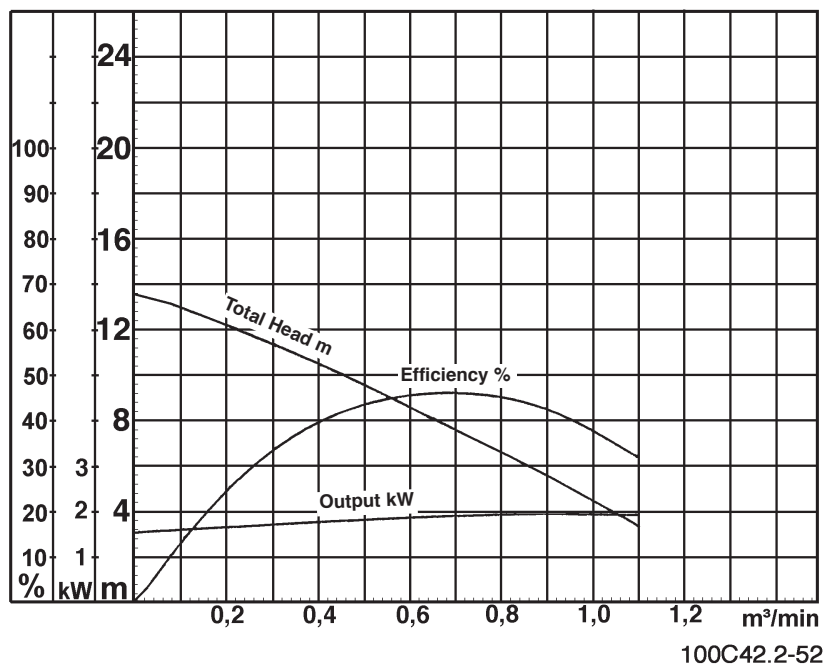
100C42.2-52

- data sheet
 - parts list
 - exploded view
 - dimensional drawing free standing type
 - dimensional drawing TOS-type
 - sectional drawing free standing type
 - sectional drawing TOS-type
 - performance curve
-
- parts list as Excel-spreadsheet

Data Sheet 100C42.2-52



100C42.2-52



Classification

Electric submersible pump
Protection class IP68
Depth of submersion max. 30m
1-channel impeller, non-clogging type with cutter mechanism
Impeller passage 44mm
Suitable for waste water and liquids carrying waste and solid matters

Electric Motor

Dry-type submersible induction motor,
Insulation class E, 4 poles, 1450 r.p.m.
Direct on line start
Voltage: 400V, 50Hz, 3-phase
Power input: 2,88kW
Power output: 2,20kW
Nominal current: 5,0A
Start current: 31,0A

Electric Cable

10m H07RN-F 4Cx1,5mm²

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:
ceramic on carbon

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller:	FC200 (EN-GJL-200) with sintered tungsten carbide alloy tip
Casing:	FC200 (EN-GJL-200)
Suction Cover:	FCD700 (EN-GJS-700-2)
Motor frame:	FC200 (EN-GJL-200)
Shaft:	SUS420J2 (EN X30Cr13)

Discharge Connection

4" (100mm) JIS10K screwed-in mating flange
Guide rail fitting optional

Weight

68 kg (dry weight of the pump without cable)



Tsurumi Europe GmbH
2.02.2005

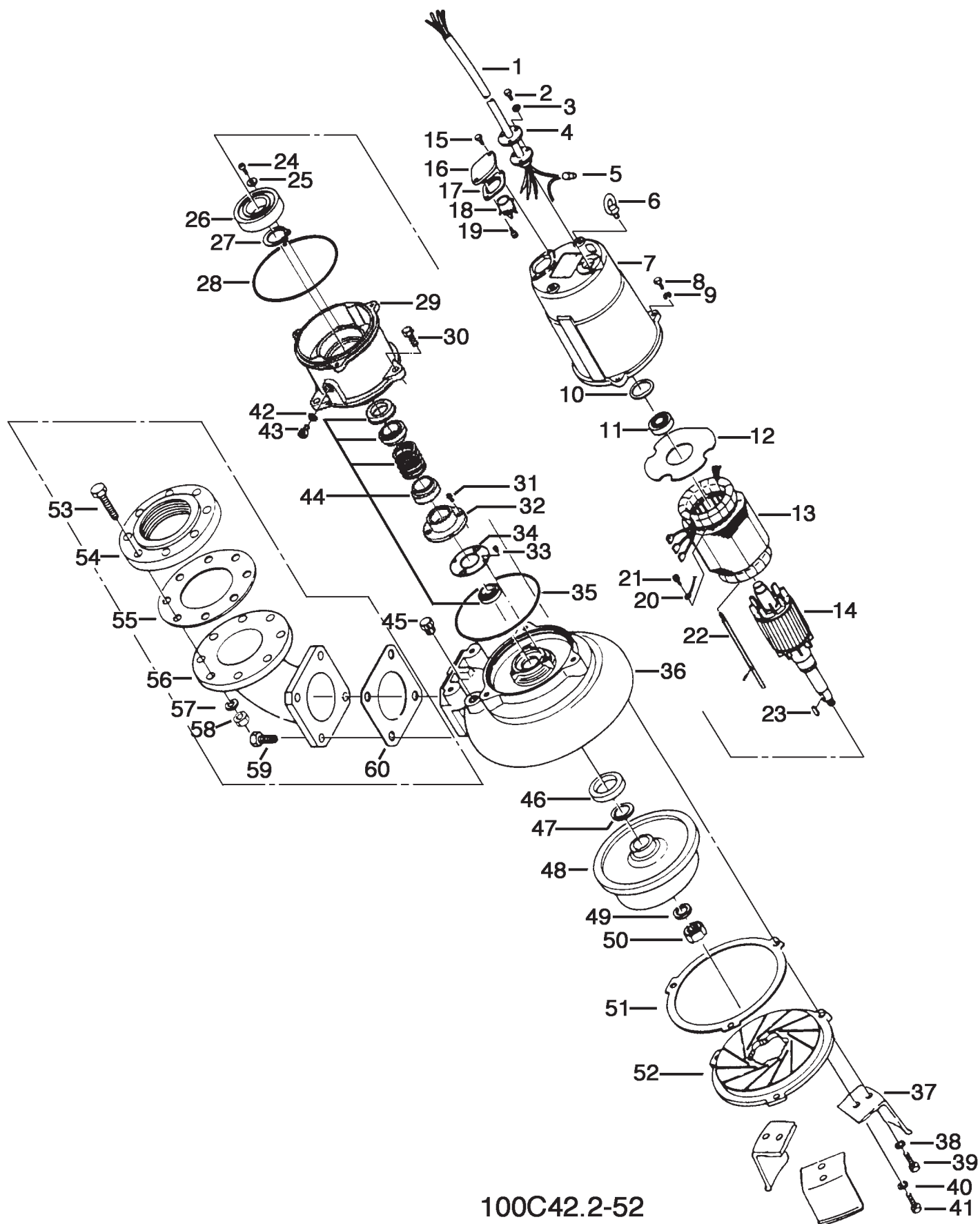
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Sales@tsurumi-europe.com • www.Tsurumi-Europe.com

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17.01.2005

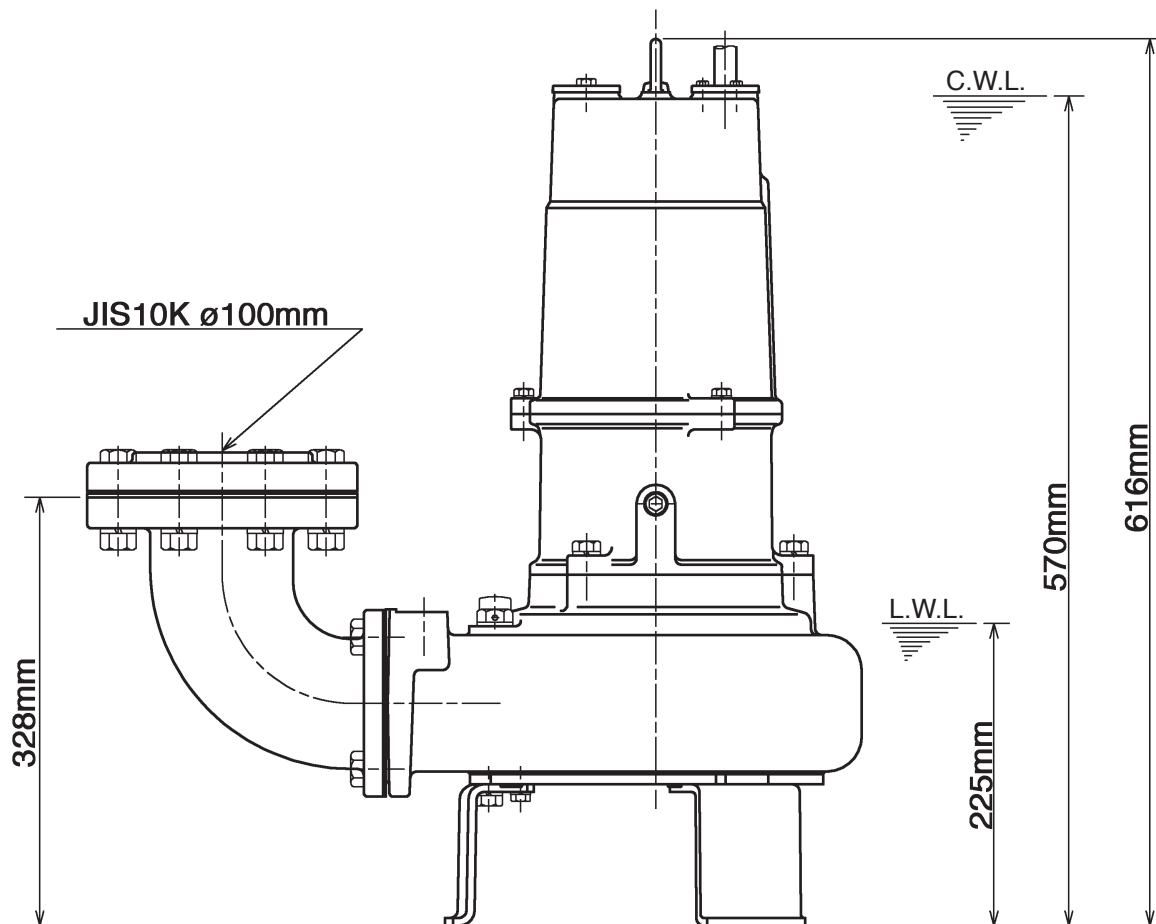
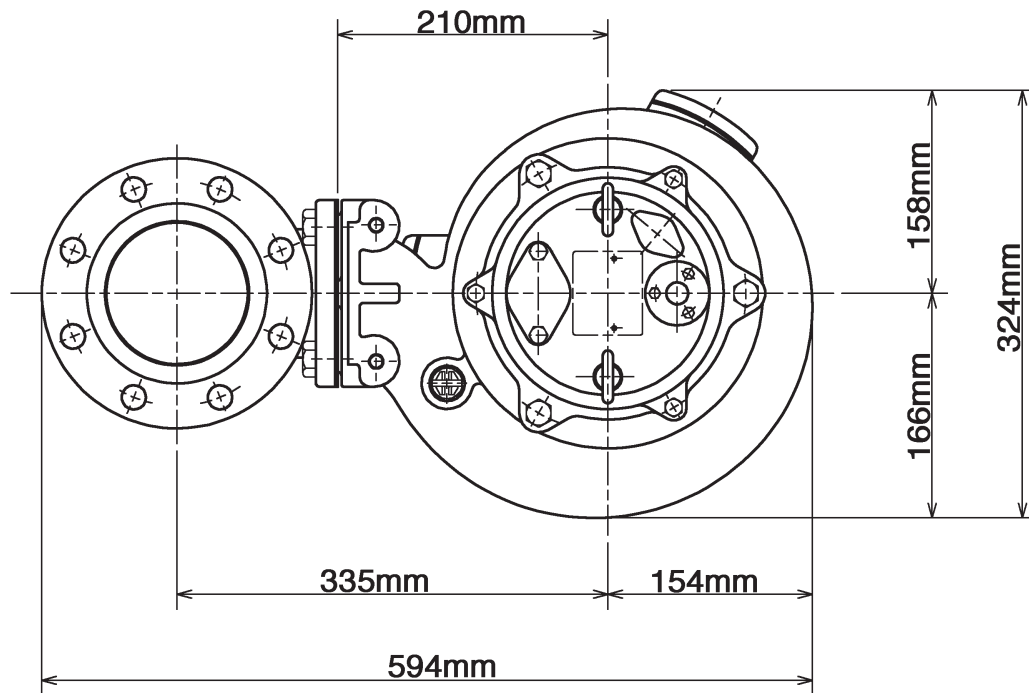
ITEM	CODE No.	DESCRIPTION	Q'TY	SIZE	MATERIAL	WEIGHT kg	REMARKS
1	001-484-18	Cabtyre Cable Set (10m)380/400/415V-	1	H07RN4Cx1.5mm2(CEE)	BE(HAR)		
2	140-021-17	Hex.Bolt	3	M5x20	SUS304	0.001	
3	142-422-18	Seal Washer	3	PM-5	SUS+NBR		
4	003-111-20	Gland	1		SUS304		
5	009-146-19	Terminal	4	CE-5	CU	0.002	
6	072-100-20	Eye Bolt	2	M10	SUS304	0.07	
7	064-509-15	Motor Frame	1		FC	7.5	
8	140-055-10	Hex.Bolt	3	M8x25	SUS304	0.014	
9	142-163-18	Spring Washer	3	M8	SUS304	0.001	
10	142-196-10	Wave Washer	1	#6205/6304	SK-5	0.001	
11	052-188-17	Bearing	1	AC-6304ZZC3		0.15	
12	058-117-13	Lead Wire Protection Plate	1	d70xd140x1.6l	Resin	0.02	
13	056-002-45	Stator 380/400/415V-50Hz(EUR)	1set				
14	055-608-17	Rotor	1set			7	
15	140-053-18	Hex.Bolt	2	M8x18	SUS304		
16	127-195-12	Protector Fixing Plate	1	22/37-BE2 Type	SUS304	0.04	
17	121-446-13	Packing	1	22/37-BE2 Type	NBR	0.01	*
18	053-254-18	Motor Protector 380/400/415V-50Hz(EU)	1	KA313-GCXL103	(H.C)	0.022	
19	143-087-23	Pan Screw (w/Spring)	2	M4x10	SWRM		
20	141-004-59	Hex.Nut	1	M6	SWRM		
21	009-159-15	Terminal	1	R-2-6	CU	0.001	
22	129-003-18	Stopper	1	M6x160(11/20)	SS		
23	147-066-15	Impeller Key	1	10x8x22l	SUS	0.013	
24	143-042-13	Pan Screw	3	M6x10	SWRM	0.001	
25	062-196-19	Bearing Fixing Washer	3	d8xd20.5x2.3l	SS	0.005	
26	052-112-10	Bearing	1	6309ZZC3		0.85	
27	146-027-11	Retaining Ring	1	C45	SK-5	0.01	
28	122-333-19	O-Ring	1	170xd3.1	NBR	0.001	*
29	060-373-16	Bearing Housing	1		FC	5	
30	140-098-15	Hex.Bolt	3	M12x35	SUS304	0.045	
31	143-070-23	Pan Screw	2	M5x6	SWRM	0.001	
32	030-156-18	Oil Lifter	1	H-35(A)(T)	Resin	0.053	
33	143-070-10	Pan Screw	3	M5x6	SWRM	0.001	
34	030-150-12	Seal Stopper	1	H-35(A)(T)	SPCC	0.073	
35	122-246-14	O-Ring	1	180xd3.1	NBR	0.001	*
36	020-526-12	Pump Casing	1	22-BE2/CE2 Type	FC	14.5	
37	023-469-15	Pump Stand	3	22/37-BE3 Type	SPHC	0.64	
38	142-165-10	Spring Washer	3	M12	SUS304	0.001	
39	140-098-15	Hex.Bolt	3	M12x35	SUS304	0.045	
40	142-163-18	Spring Washer	3	M8	SUS304	0.001	
41	140-054-19	Hex.Bolt	3	M8x20	SUS304	0.013	
42	121-247-12	Packing	1	d12.3xd18x2l	PE	0.001	*
43	035-113-18	Oil Plug	1	M12x14	SUS304	0.003	
44	025-280-16	Mechanical Seal	1	H-35A	SiC+CCBN	0.19	Oil ISO VG32 (1250ml)
45	046-107-13	Air Release Valve	1	PT- 1/2"	Nylon	0.017	
46	026-111-18	Oil Seal	1	TC-456812	NBR	0.04	
47	040-107-28	Impeller Shim		d25.2xd38x0.3l	SUS304	0.002	
48	021-L81-13	Impeller (50Hz)	1	100C42.2-52	FC	5.2	
48	021-L82-14	Impeller (60Hz)	1	100C42.2-62	FC	4.9	
49	142-170-18	Spring Washer	1	M24	SUS304	0.032	
50	141-011-17	Hex.Nut	1	M24	SUS304	0.095	
51	120-104-13	Packing		d230.5xd258x0.3l	M-Sheet	0.005	
52	022-738-15	Suction Cover	1	22/37-CE3	FCD	4.8	
53	140-130-36	Hex.Bolt	8	M16x70	SWRM	0.135	
54	048-109-11	Screwed Flange	1	JIS10Kx100mm	FC	4	
55	121-106-34	Packing	1	JIS10Kx100mm	NR	0.11	
56	037-170-19	Discharge Bend	1	80x100mm	FC	8.5	
57	142-166-37	Spring Washer	8	M16	SWRH	0.01	
58	141-008-11	Hex.Nut	8	M16	SUS304	0.03	
59	140-124-11	Hex.Bolt	4	M16x40	SUS304	0.09	
60	121-152-19	Packing	1	145mm2(P.C.145)	NBR	0.04	*
		<Packing O-Ring Set>					
	173-444-12	Packing O-Ring Set	1set	(*)		0.06	

Exploded View 100C42.2-52



100C42.2-52

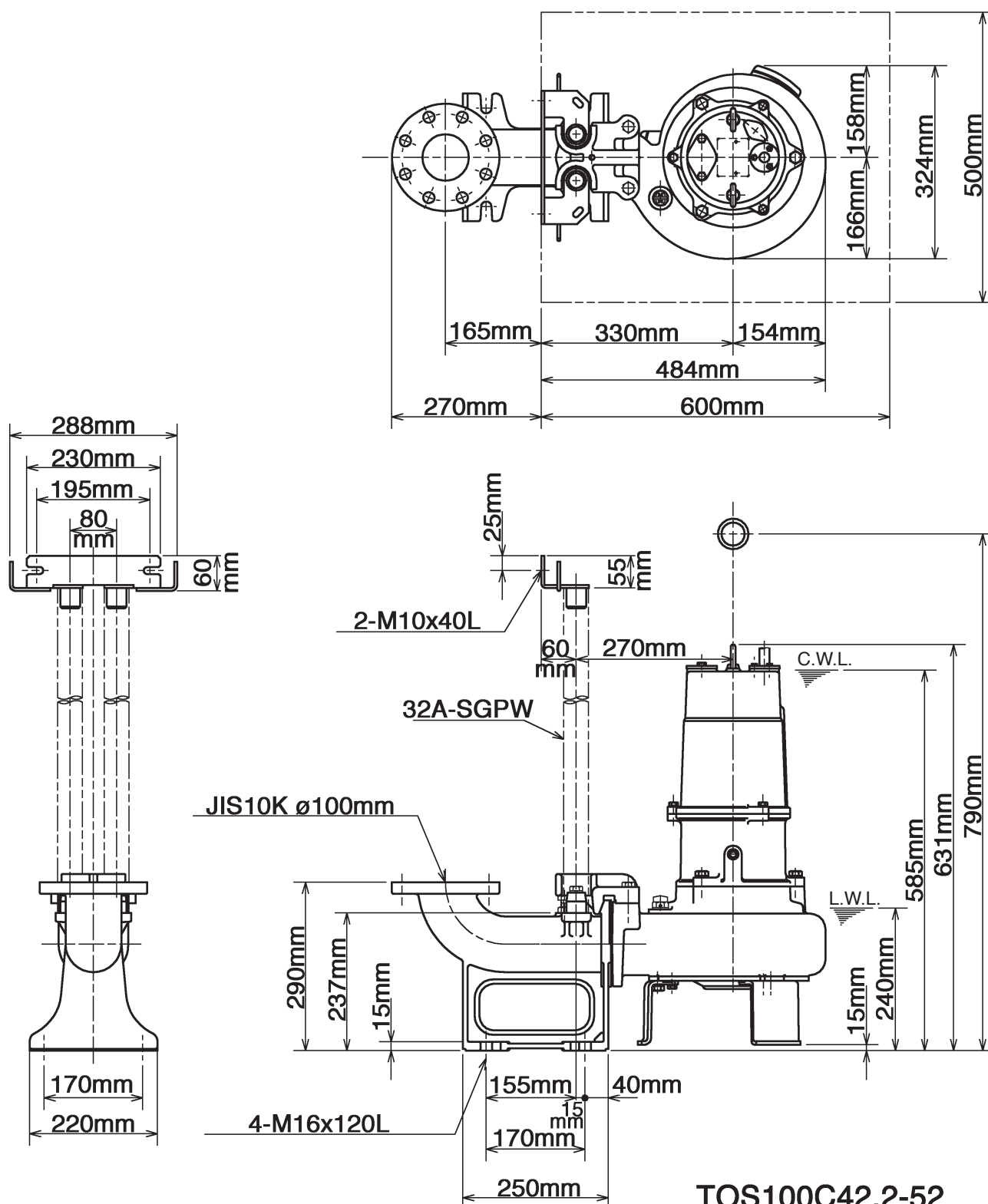
Dimensional Drawing 100C42.2-52



CWL: Continuous Running Water Level
LWL: Lowest Running Water Level

100C42.2-52

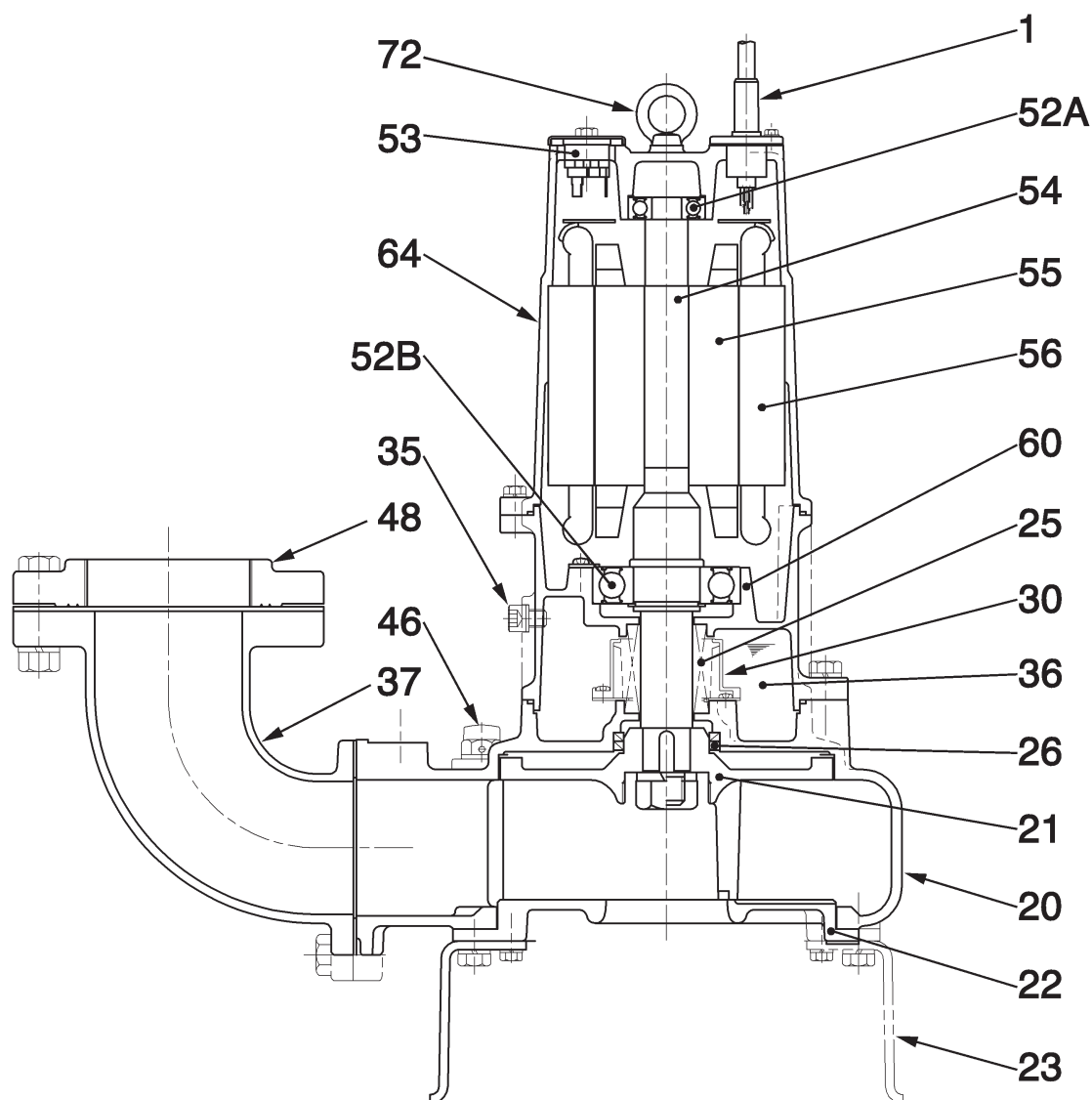
Dimensional Drawing TOS100C42.2-52



CWL: Continuous Running Water Level

LWL: Lowest Running Water Level

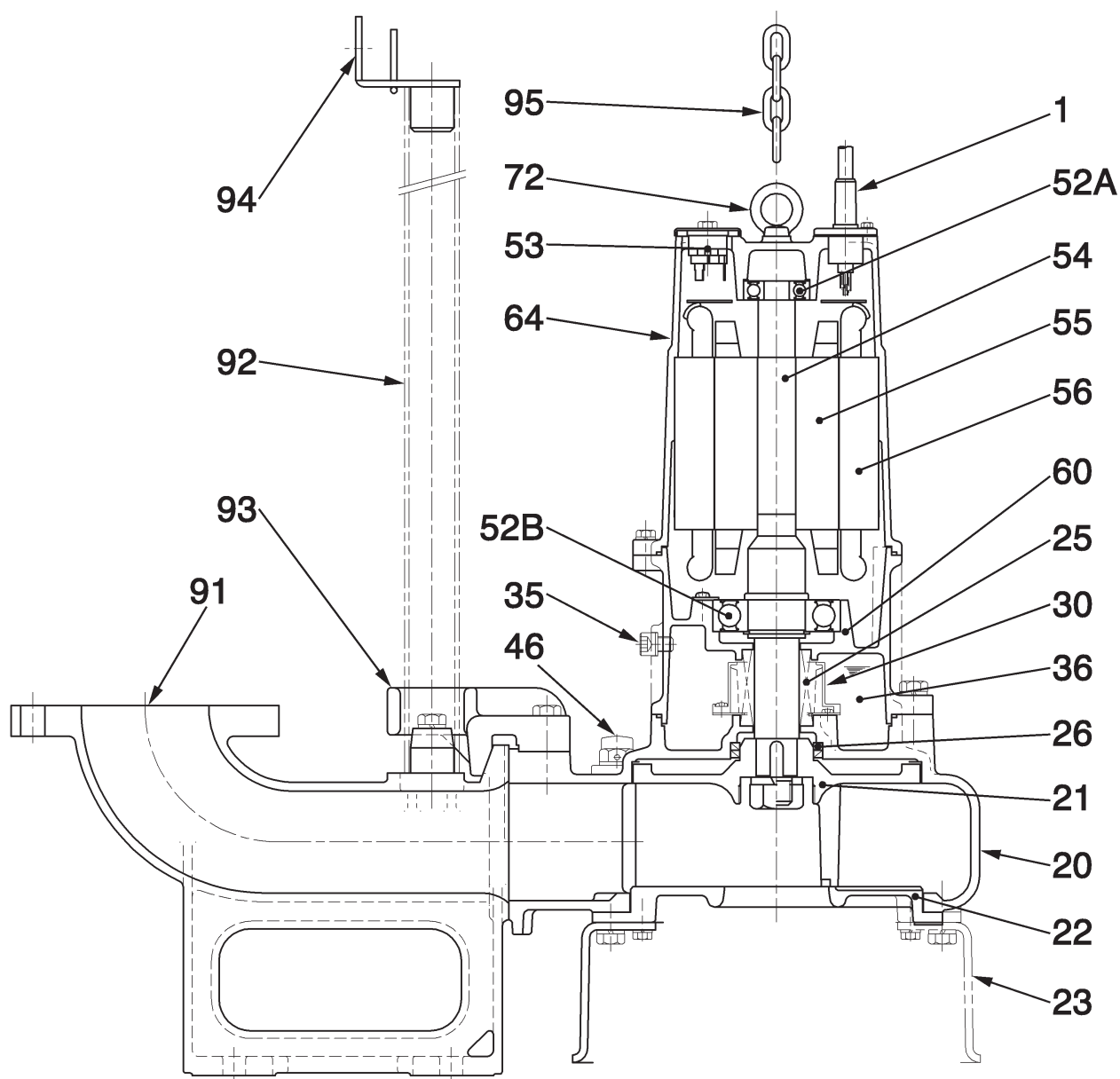
Sectional Drawing 100C42.2-52



100C42.2-52

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cable	1	H07RN-F	52B	Lower Bearing	1	6307ZZC3
20	Pump Casing	1	FC200 (EN-GJL-200)	53	Motor Protector	1	
21	Impeller	1	FC200 (EN-GJL-200)+Tungsten Carbide	54	Shaft	1	SUS420J2 (EN-X30Cr13)
22	Suction Cover	1	FCD700 (EN-GJS-700-2)	55	Rotor	1	
23	Stand	3	SS400 (DIN 1.0040)	56	Stator Complete	1	
25	Mechanical Seal	1	H-30A	60	Bearing Housing	1	FC200 (EN-GJL-200)
26	Oil Seal	1	TC-456812	64	Motor Frame	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	72	Eye Bolt	2	SUS304 (EN-X5CrNi18-10)
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)				
36	Lubricant		Turbine Oil (ISO VG32)				
37	Discharge Bend	1	FC200 (EN-GJL-200)				
46	Air Release Valve	1	Nylon				
48	Screw Flange	1	FC200 (EN-GJL-200)				
52A	Upper Bearing	1	6304ZZC3				

Sectional Drawing TOS100C42.2-52



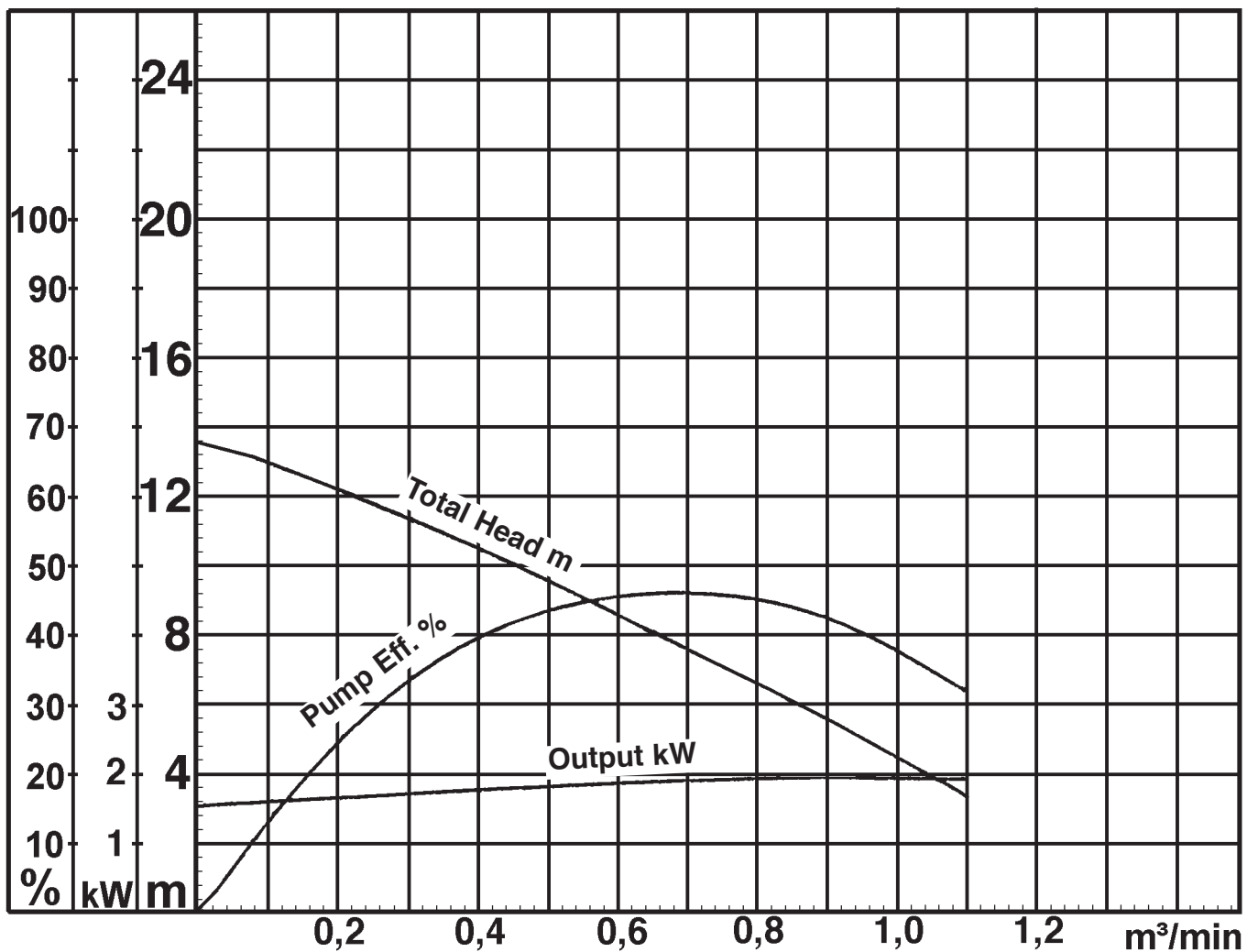
TOS100C42.2-52

No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	1	H07RN-F	54	Shaft	1	SUS420J2 (EN-X30Cr13)
20	Pump Casing	1	FC200 (EN-GJL-200)	55	Rotor	1	
21	Impeller	1	FC200 (EN-GJL-200)+Tungsten Carbide	56	Stator Complete	1	
22	Suction Cover	1	FCD700 (EN-GJS-700-2)	60	Bearing Housing	1	FC200 (EN-GJL-200)
23	Stand	3	SS400 (DIN 1.0040)	64	Motor Frame	1	FC200 (EN-GJL-200)
25	Mechanical Seal	1	H-30A	72	Lifting Eye Bolt	2	SUS304 (EN-X5CrNi18-10)
26	Oil Seal	1	TC-456812	91	Duck Foot Bend	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	92	Guide Pipe (Option)	2	Galvanized Steel Pipe SGPW
35	Oil Plug	1	SUS304 (EN-X5CrNi18-10)	93	Guide Hook	1	FCD450 (EN-GJS-450-10)
36	Lubricant		Turbine Oil (ISO VG32)	94	Guide Support	1	SUS304 (EN-X5CrNi18-10)
46	Air Release Valve	1	Nylon	95	Lifting Chain	1	SS400 (DIN 1.0040)
52A	Upper Bearing	1	6304ZZC3				
52B	Lower Bearing	1	6307ZZC3				
53	Motor Protector	1					

Pump Performance Curve

100C42.2-52

Discharge Bore	100 mm
Total Head	8,0 m
Capacity	0,65 m ³ /min
Motor Output	2,20 kW
Motor Input	2,88 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	5,0 A
Starting Current	31,0 A
Poles	4
Revolution	S.S. 1450 r.p.m.
Starting Method	direct on line
Insulation Class	E



100C42.2-52