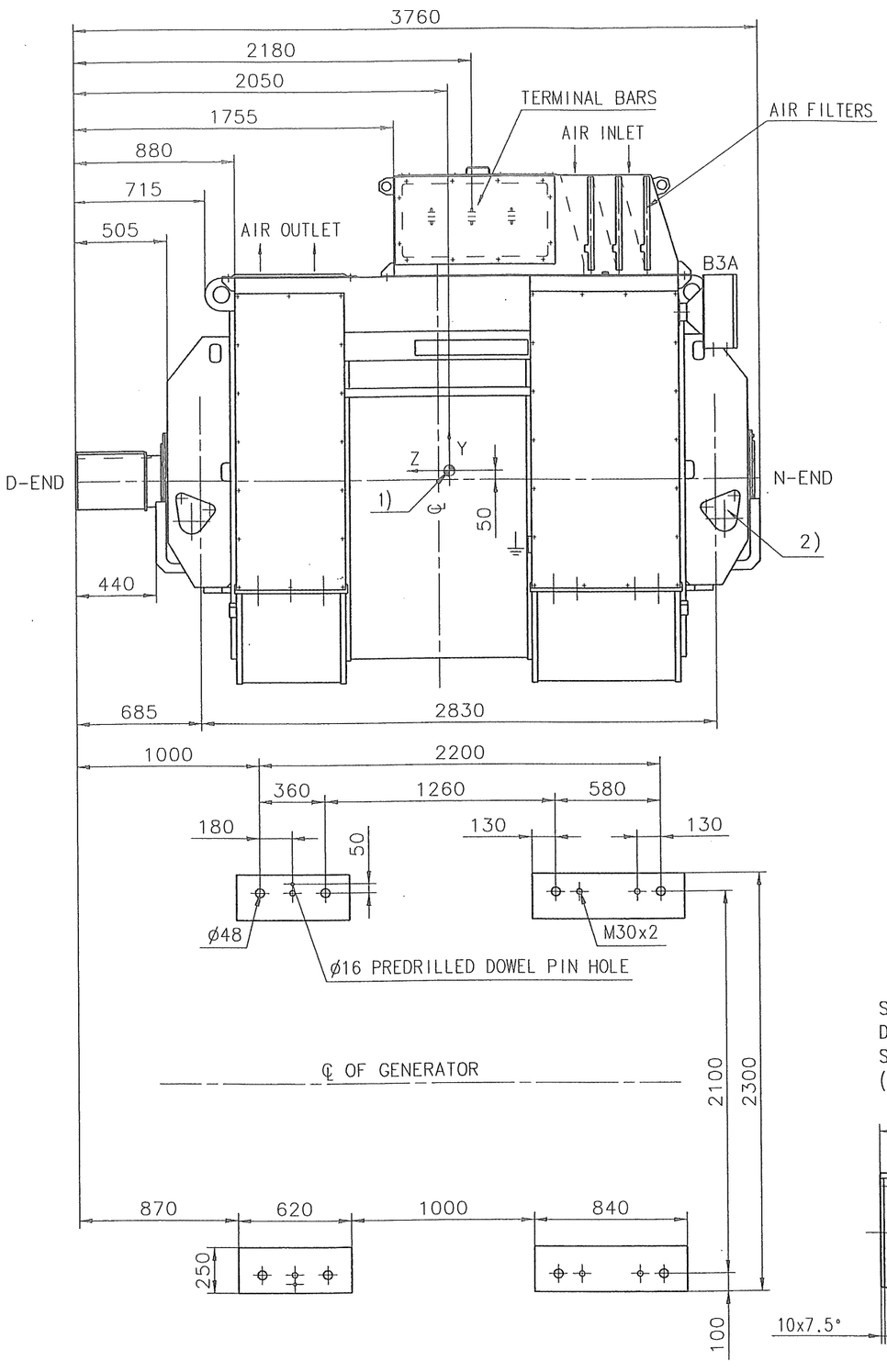
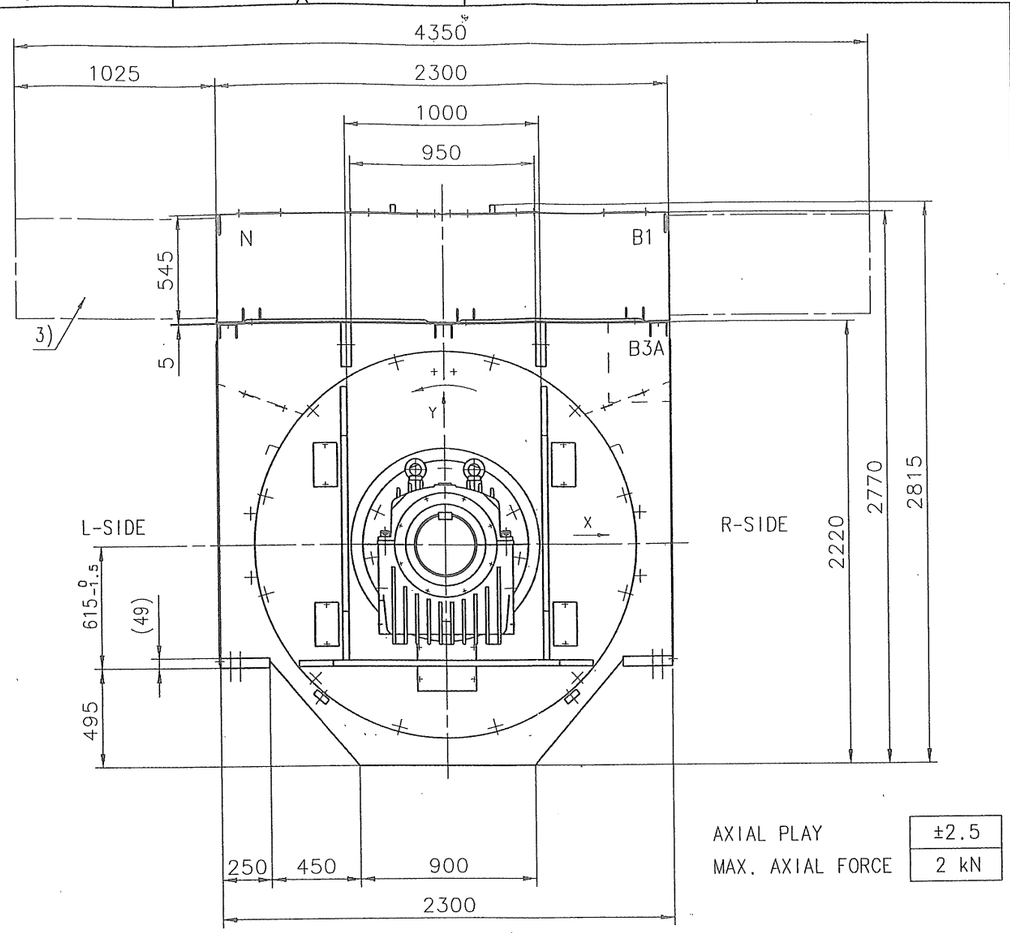
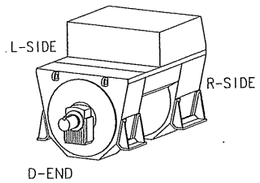


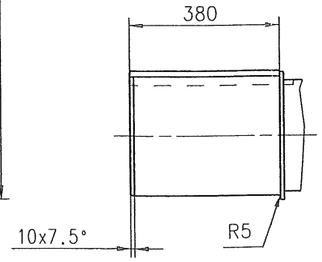


AXIAL PLAY	±2.5
MAX. AXIAL FORCE	2 kN

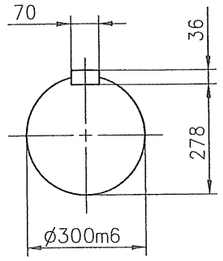
PRINCIPLE MOMENTS OF INERTIA		
Ixx	23500	kgm²
Iyy	22900	kgm²
Izz	17800	kgm²



SHAFT END
DIN 748
SHORT SERIES
(1:10)



KEY AND KEYWAY
B 70x36x380
DIN 6885



1) CENTER OF GRAVITY
2) OIL ISO VG46 34dm³ PER BEARING
3) FREE SPACE REQUIRED FOR FILTER CHANGING

B1 MAIN TERMINAL R-SIDE, NEUTRAL POINT L-SIDE
B3A TERMINAL BOX FOR ACCESSORIES, R-SIDE

Rev	Change	Date	Prep.	Rev.	Appr.
C	DRAWING UPDATED	2003-04-15	JASA	JUKE	ERUK

WÄRTSILÄ	© Wärtsilä Finland Oy Power Plants	MAIN DIMENSIONS		00A
	ABB Oy	ABB ref.no.		
Product Generator AC	ACA	AMG 1120MK08 DSE IM1101 IP23		
	UNITS	WEIGHT 26800 kg IC		F
MADE 2003-04-10 J.SAUKKONEN				
CHKD 2003-04-10 J.KOKKI	SCALE 1:20	Page No. 1/1	DRG. No. ABB Oy, Machines, Helsinki 3AFP 5131147	Rev. C
APPD 2003-04-10 J.KEHUSMAA	SIZE A2			

Symbols for roughness according to ISO 1302 , SADA 431

General tolerances for linear and angular dimensions and geometrical tolerances: ISO 2768 -mK
Referential standards SADA 422 , DIN 7168T.1, DIN 7168T.2

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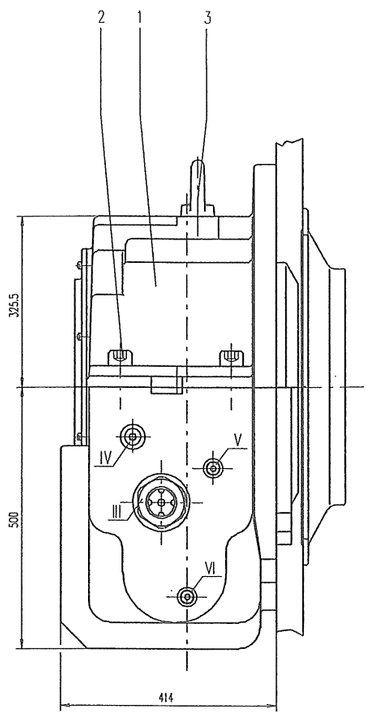
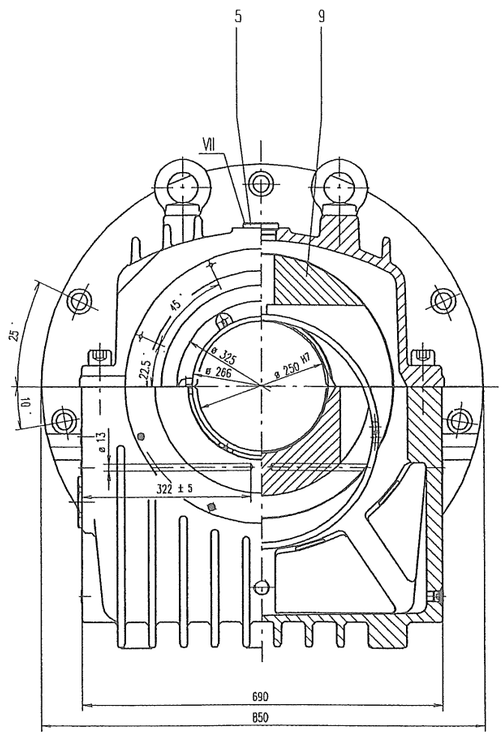
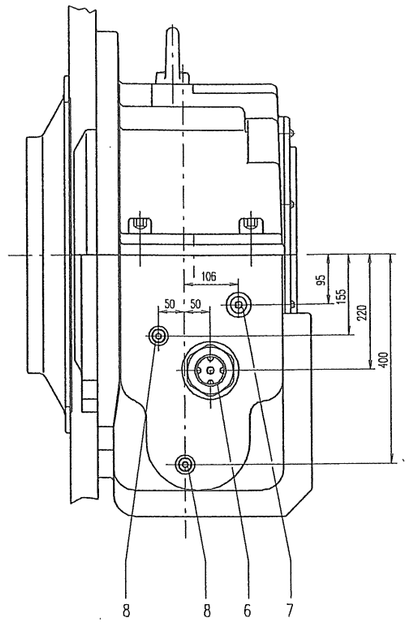
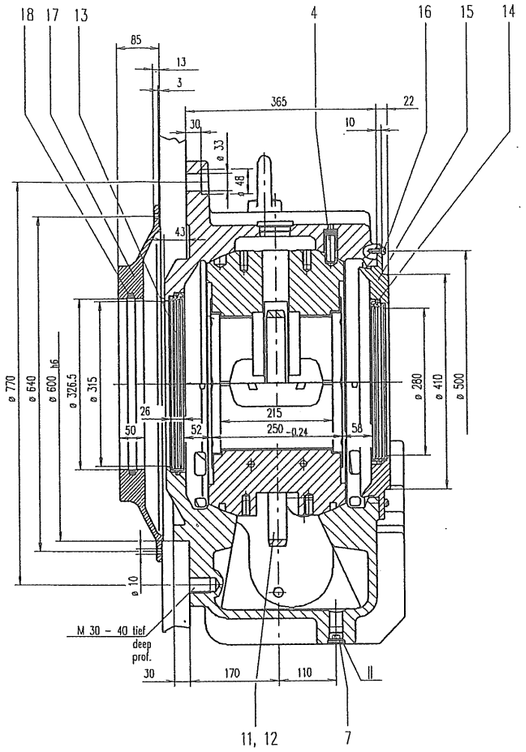
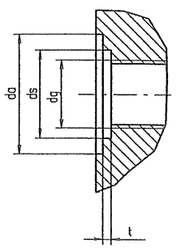
I-DEAS



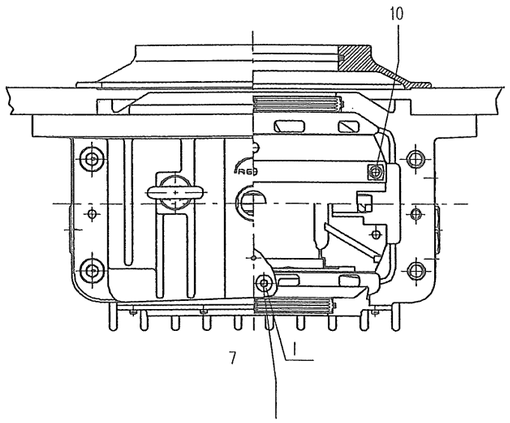








dg	da	ds	t
G 1/2	37	27	2.5
G 3/4	50	33	2.5
G 2	-	70	4
G 2 1/2	112	89	4



I	Oeleinfuellbohrung	G	3/4	oil filer bore	BSP	3/4 "	trou de remplissage d'huile	G	3/4
II	Oelablassbohrung	G	3/4	oil drain bore	BSP	3/4 "	trou de sortie d'huile	G	3/4
III	Oelstandsauge / Anschluss fuer Oelablauf DN 65	G	2 1/2	oil level sight glass / connection for oil outlet DN 65	BSP	2 1/2 "	voyant niveau d'huile / raccord pour sortie d'huile DN 65	G	2 1/2
IV	Anschluss fuer Oelzulauf DN 20, Oelumlaufonloge oder Umwaetzpumpe	G	3/4	connection for oil inlet DN 20, oil circulating system or cirulating pump	BSP	3/4 "	raccord pour entrée d'huile DN 20, groupe de graissage ou pompe de circulation	G	3/4
V	Anschluss fuer Temperaturfuehler	G	1/2	connection for thermosensor	BSP	1/2 "	raccord pour sonde thermométrique	G	1/2
VI	Anschluss fuer Oelsumpfthermometer	G	1/2	connection for oil sump thermometer	BSP	1/2 "	raccord pour thermomètre du bain d'huile	G	1/2
VII	Schauglas	G	2	sight glass	BSP	2 "	raccord voyant	G	2

Die Anschluesse III, IV, V und VI sind beidseitig vorhanden. The connections III, IV, V and VI are repeated on opposite side. Les raccords III, IV, V et VI se trouvent à droite et à gauche.

sleeve bearing

palier lisse

General tolerances for linear and angular dimensions and geometrical tolerances: ISO 2768 –mK
Referential standards 9ADA 422, DIN 7168T.1

Symbols for roughness according to ISO 1302, 9ADA 431

Nr.	Aenderung	Datum	Name
A	Erstellung	05.05.00	Tr

Veränderungsbericht

Abgeschrieben: ISO 2768-mK-E
Oberflächen: DIN ISO 1302
Form- und Lagetoleranzen: DIN ISO 1101

Massstab 1:1

	Datum	Name
CAD		
Bearb.	05.05.00	Tr
Gepr.	05.05.00	Mey
Archiv	05.05.00	ar

RENK WERK HANNOVER
Schutzvermerk DIN 34 beachten

Gewicht

Werkstoff

Benennung
LAGER EFZLB28-250

Zeichnungs-Nr.
2852664 A

Ersatz. zuer.
Ersatz. durch
Bestl. 01
1 Blatt/Bl.

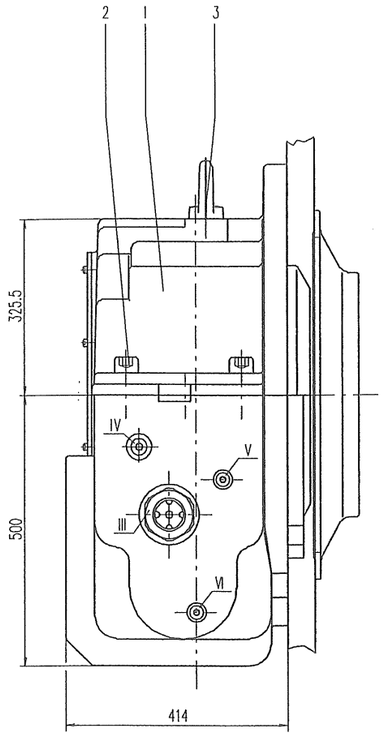
Prepared	2000-09-27 T.TOIKKO	Separate part list with separate No.	
Reviewed	2000-09-27 M.NISSINEN	Responsible Department	FIDRI/PTD
Approved	2000-09-27 M.NISSINEN	Original Dwg	
Distribution	Functional Code	Order No.	Weight

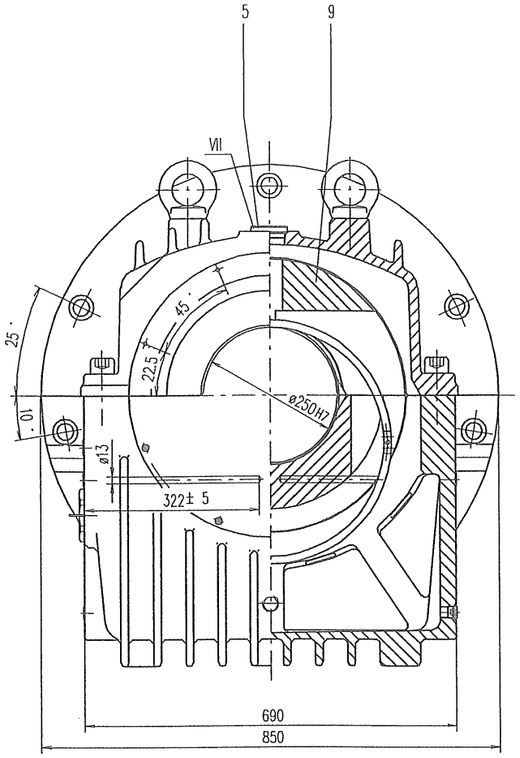
ABB Oy, Machines, Helsinki

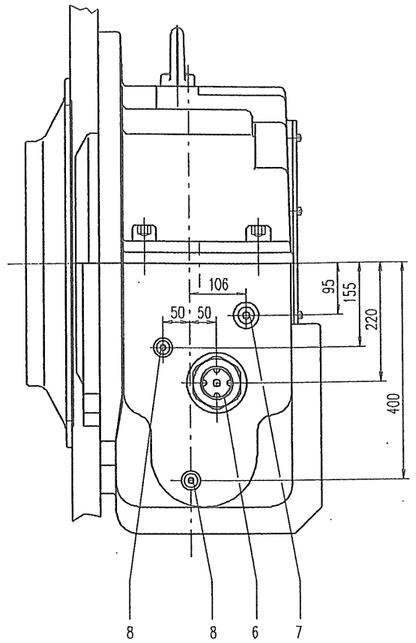
Title	SLEEVE BEARING ZLL EFZLB28-250
Type	Mounting
Document No.	3AFP 9873637
Revision	A
Scale	1:1
Language	
Size	A2
Sheet	1/1

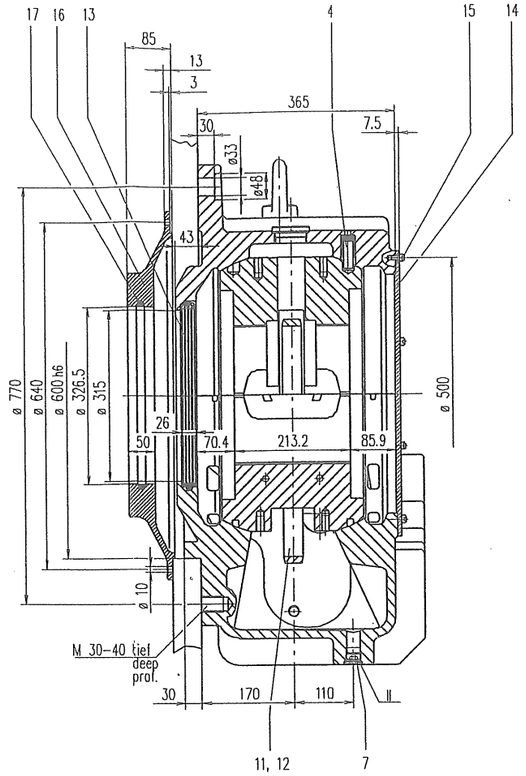
AutoCAD

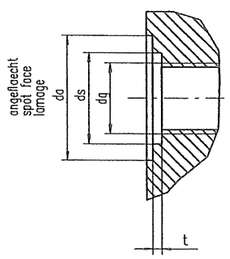
ABBA2BF1



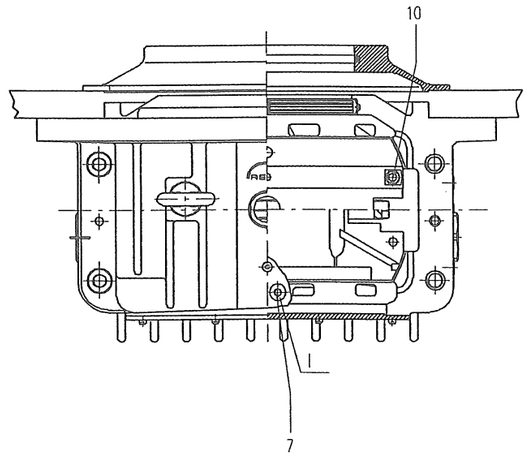








dg	da	ds	t
G 1/2	37	27	2.5
G 3/4	50	33	2.5
G 2	~	70	4
G 1 1/2	112	89	4



I	Oeleinfuellbohrung	G	3/4	oil filler bore	BSP	3/4 "	trou de remplissage d'huile	G	3/4
II	Oelablassbohrung	G	3/4	oil drain bore	BSP	3/4 "	trou de sortie d'huile	G	3/4
III	Oelstandsauge / Anschluss fuer Oelablauf DN 65	G	2 1/2	oil level sight glass / connection for oil outlet DN 65	BSP	2 1/2 "	voyant niveau d'huile / raccord pour sortie d'huile DN 65	G	2 1/2
IV	Anschluss fuer Oelzulauf DN 20, Oelumlaufanlage oder Umwaelzpumpe	G	3/4	connection for oil inlet DN 20, oil circulating system or cirulating pump	BSP	3/4 "	raccord pour entrée d'huile DN 20, groupe de graissage ou pompe de circulation	G	3/4
V	Anschluss fuer Temperaturfuehler	G	1/2	connection for thermosensor	BSP	1/2 "	raccord pour sonde thermométrique	G	1/2
VI	Anschluss fuer Oelsumpfthermometer	G	1/2	connection for oil sump thermometer	BSP	1/2 "	raccord pour thermomètre du bain d'huile	G	1/2
VII	Schauglos	G	2	sight glass	BSP	2 "	raccord voyant	G	2

Die Anschluesse III, IV, V und VI sind beidseitig vorhanden. The connections III, IV, V and VI are repeated on opposite side. Les raccords III, IV, V et VI se trouvent à droite et à gauche.

polier lisse

Symbols for roughness according to ISO 1302, SADA 431

General tolerances for linear and angular dimensions and geometrical tolerances: ISO 2768 –mK
Referential standards SADA 422, DIN 7168T.1

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Pos	Abmasse	Aenderungsbereich					
		A	Erstellung	11.11.99	Gre		
		Zust.	Aenderung	Datum	Name		

Allgemeintoleranz ISO 2768-mK-E
Oberflaeche DIN ISO 1302
Form- und Lagetoleranzen DIN ISO 1101
Massstab 1:5

CAD	Datum	Name
Bearb.	11.11.99	Gre
Gepr.	11.11.99	Ney
Archiv	11.11.99	ar

Gewicht
Werkstoff
Benennung: LAGER EFZLQ28-250
Zeichnungs-Nr.: 193-28224-0034 A
Ersatz. aus:
Ersatz fuer:
Blatt 01
1 Blatter
Schutzvermerk DIN 34 beachten

WERK HANNOVER

Prepared	1999-11-22 M NISSINEN
Reviewed	2000-01-26 M SÄÄSKI
Approved	2000-01-26 K OLKANEN
Distribution	Functional Code
Separate part list with separate No.	☐ ☐
Responsible Department	FIDRI/PTE
Original Dwg	
Order No.	Weight

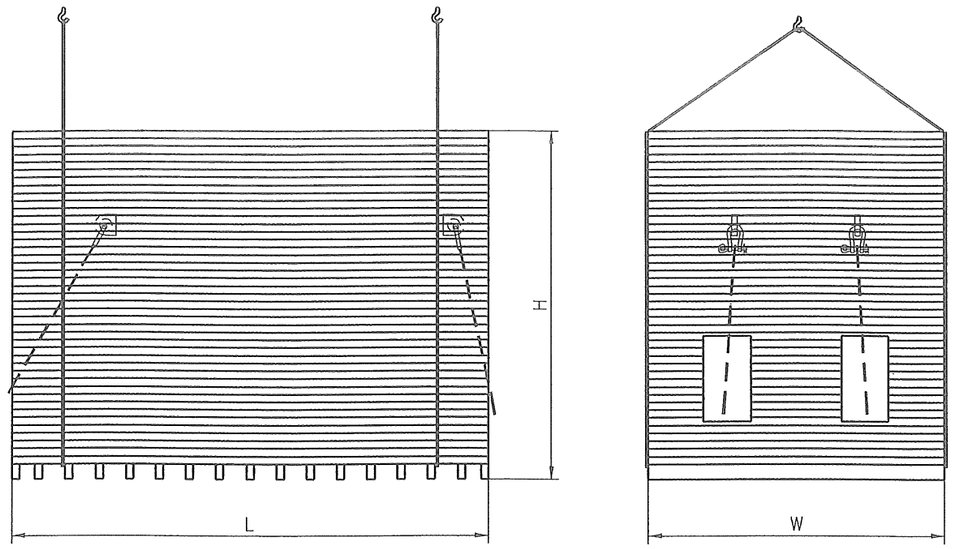
ABB FIDRI ABB Oy, Machines, Helsinki

Title	SLEEVE BEARING ZLL EFZLQ28-250EP
Type	Mounting
Document No.	3AFP 9872686
Revision	A
Scale	1:1
Language	
Size	A2
Sheet	1/1

AutoCAD

ABBA2BF1

HOISTING OF SEAWORTHY PACKING AND FASTENING ON THE CHASSIS



TRANSPORT AND HOIST

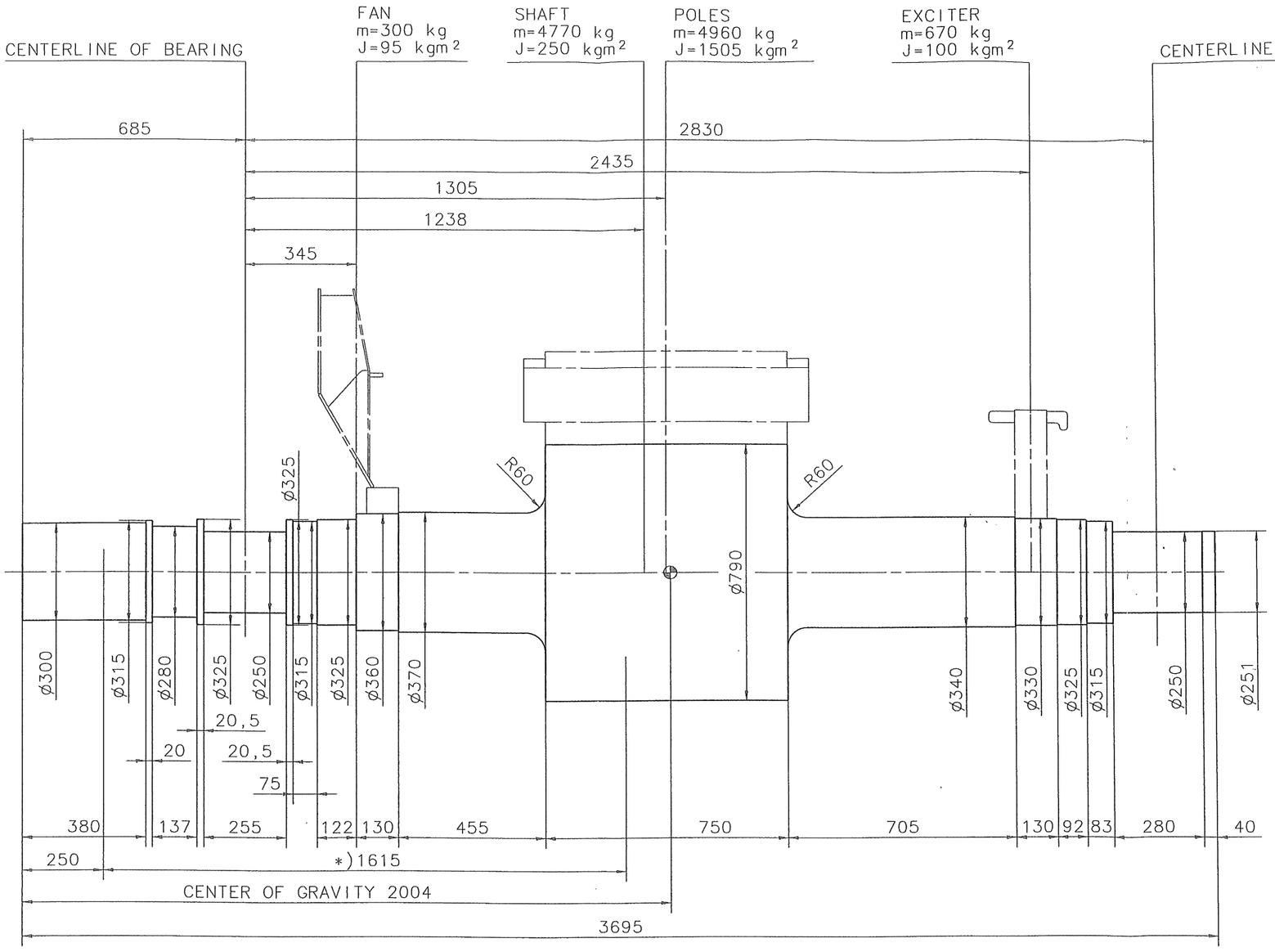
TYPE	IM	A	B	C	SEAWORTHY PACKING HEIGHT=H	SEAWORTHY PACKING WIDTH=W	SEAWORTHY PACKING LENGTH=L	TRUCK PACK HEIGHT=H	TRUCK PACK WIDTH=W	TRUCK PACK LENGTH=L
AMG 1120S___	1101	2460	6100	3200	3200	2500	3900	2850	2300	3700
AMG 1120M___	1101	2660	6400				4100			3900
AMG 1120L___	1101	2860	6700				4300			4100
AMG 1120X___	1101	3060	7000				4500			4300

Symbols for roughness according to ISO 1302. 9ADA 431

General tolerances for cutting and non-cutting machining; linear and angular dimensions "medium" ☒ "coarse" ☐ || form and position DIN 7168 T.2.. ISO 2768, 9ADA 422, DIN 7168T.1

WÄRTSILÄ	© Wärtsilä Finland Oy Power Plants	TRANSPORT AND HOIST	
	ABB ABB Oy	ABB ref.no.	
Product Generator AC	ACA UNITS	AMG 1120__	IM 1101 IP 23
	ASLY.DRG	WEIGHT	IC 0A1 Proj. no.
MADE 2001-01-02 TOIKKO			
CHKD 2001-01-02 J.KOKKI	SCALE 1:20	Page No. 1/1	DRG. No. ABB Oy, Machines, Helsinki 3AFP 5122348 A Rev.
APPD 2001-01-02 J.SHIBUTANI	SIZE A2		

ABBA2AFI AutoCAD



MATERIAL: EN10025-S355J2G3 OPT22

TOTAL WEIGHT
10700 kg

TOTAL INERTIA
1950 kgm²

*)TORSIONAL STIFFNESS
48.4x10⁶ Nm/rad

Symbols for roughness according to ISO 1302 , 9ADA 431

General tolerances for linear and angular dimensions ISO 2768 -mK
and geometrical tolerances:
Referential standards 9ADA 422 , DIN 7168T.1, DIN 7168T.2

WÄRTSILÄ

ABB Oy

Product	Generator AC	ACA	UNITS
MADE	2005-07-12	J.SAUKKONEN	
CHKD	2005-07-12	P.HÄYRINEN	SCALE 1:10
APPD	2005-07-12	T.OTTELIN	SIZE A2

ROTOR DRAWING
ABB ref.no.
AMG 1120MK08_S_ IM IP
WEIGHT IC

Page No. 1/1

DRG. No. ABB Oy, Electrical Machines, Helsinki
3AFP 5140970 Rev. A

ABBA2BF1

I-DEAS