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775

477

M12x50

Tilspændingsmoment på M12 bolt = 70Nm
Torque on M12 bolt = 70Nm

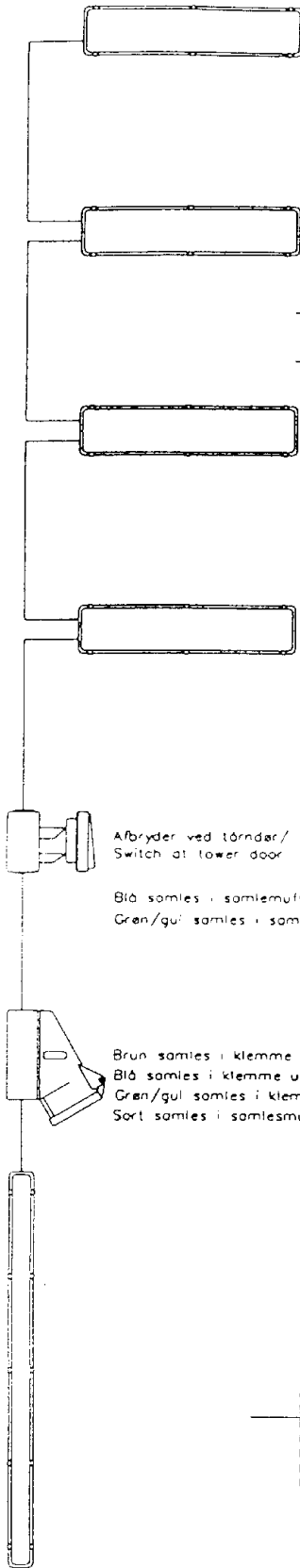
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Nettilslutningssæktion. VMP-BUND-500/600/660kW.									
Grid conn. section. VMP-GROUND-500/600/660kW.									
REVISED	R	931006	940803	961015	970523	JOURNAL NO.			
SOB. I APP.	FP, MK	1	FP, MK2	LRA, MK	3	LRA, MK	4	WATER	
DATE	5	6	7	8	9	DRIVE NO.			
	91115	FP	MK	1:4	92251				

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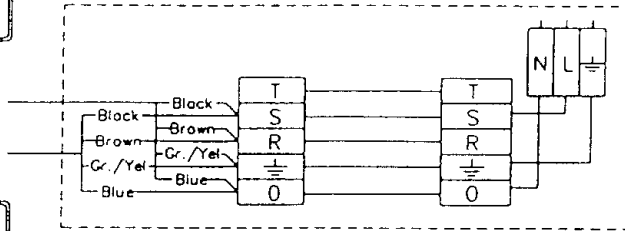
Vestas Wind Systems A/S
SMED HANSEVej 27 DK-8940 LEJ
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Fax: +45 9731120

Vestas

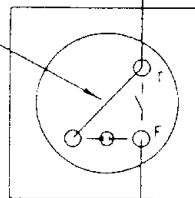
Møllehat/
Nacelle



2x18W i tårnet/
2x18W in the tower.



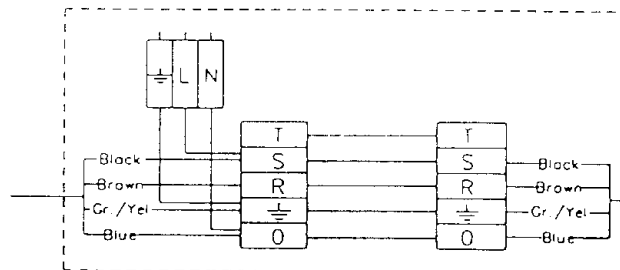
Mont ledning/
Mount wire



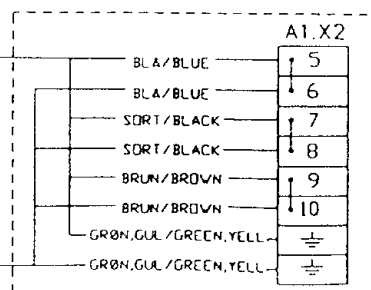
Blå samles i samlemuffe/ Blue assemb. in splicing sleeve.
Grøn/gul samles i samlemuffe/ Green/yell. assemb. in splicing sleeve

Brun samles i klemme L/ Brown assemb. in terminal L
Blå samles i klemme uden mærkning/ Blue assemb. in terminal with out marking
Grøn/gul samles i klemme $\perp$ / Green/yel. assemb. in terminal $\perp$
Sort samles i samlesmuffe/ Black assemb. in splicing sleeve

1x36W over Bundstyringen/
1x36W above the Ground-controller.



Bundstyring
Ground-controller



W83

W84

Lysinstallation i tårn. VMP-500/600/660kW-690V.

Light installation i tower. VMP-500/600/660kW-690V.

REV DATE 930118 940803 970821 971009

SIGN LAMP R FP MK 1 FP MK 2 LRA MK3 LRA MK4

DATE 920317 5 6 7 8 9

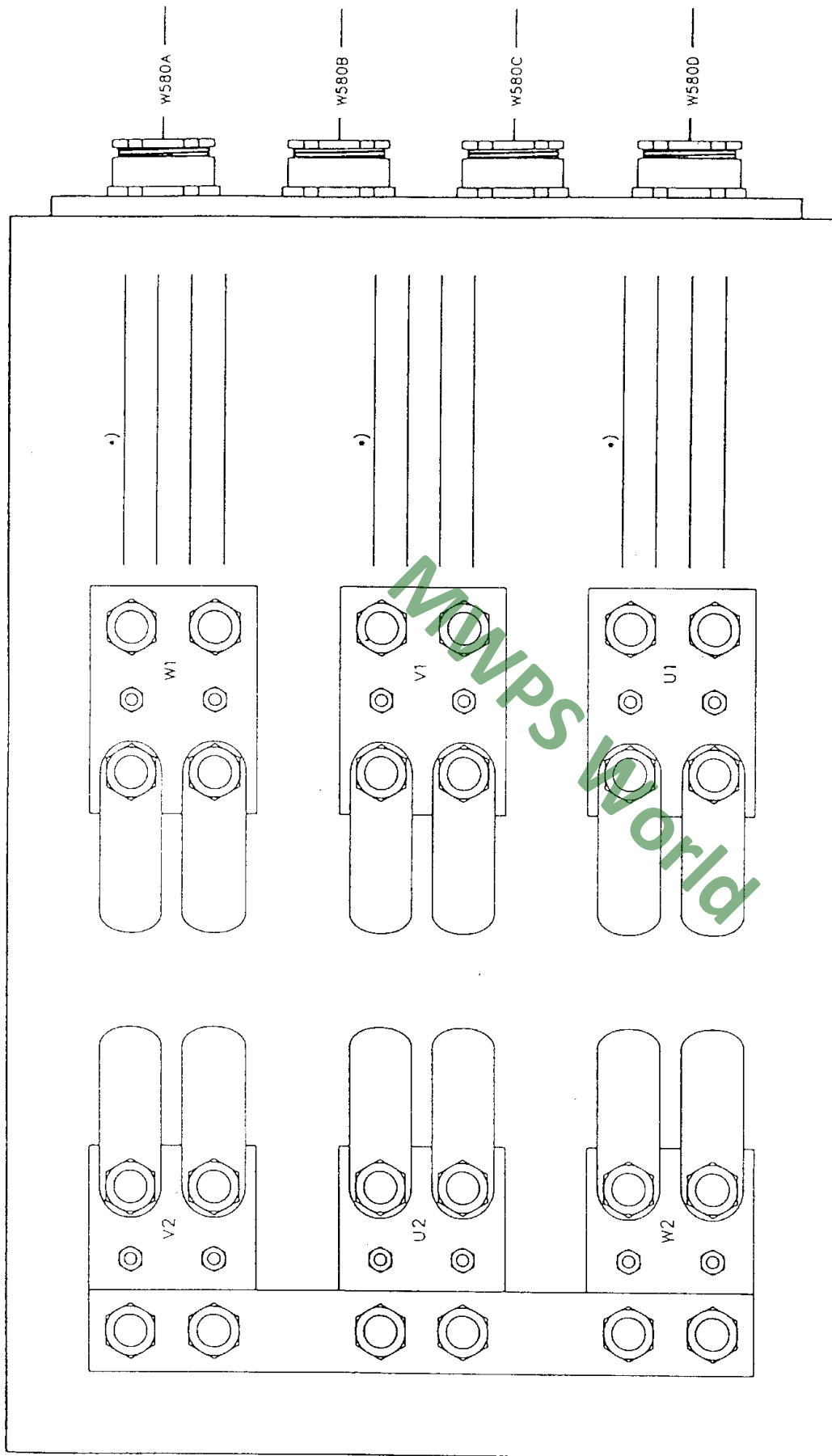
SCALE MK 922614

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Vestas



ITEM Kabelmont. WEIER gen. VMP-500kW/600kW-690V.									
Cable assemb. WEIER gen. VMP-500kW/600kW-690V.									
REV DATE	941204	2	3	4	JOURNAL NO.				
SKID. I APPD.	R	FP	2004	4	WATH				
DATE	940308	5	6	7	8	9	SCALE		
							1:2		
							MK		
							FP		
							1:2		
							922626		

*) FLENDER/HANSEN gear : U1: Blø/Blue
V1: Brun/Brown
W1: Sort/Black

VALMET gear : U1: Blø/Blue
V1: Sort/Black
W1: Brun/Brown

Tilspændingsmoment på M8 = 25Nm
Torque on M8 = 25Nm
Tilspændingsmoment på M16 = 92Nm
Torque on M16 = 92Nm

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A B C D E F G H

Kran/Crain

The diagram shows a rectangular terminal block with five screw terminals. Two wires enter from the left, labeled 'Kran/Crain'. The top wire connects to the first terminal, and the bottom wire connects to the second terminal. To the right of the terminal block is a switch mechanism with a handle and a lever. The switch is connected to the third terminal. Below the switch, there are two more terminals, each with a wire connected to it. These wires are labeled 'Gr. - Cul / Gr. - Yel.' and 'Blå/Blue'.

Gr. - Cul / Gr. - Yel.
Blå/Blue

Kran/Crain

W83

MWPS World

A1.X2

Pin	Color	Function
5	BLA/BLEU	
6		Nullleder/Neutral conductor
7	SORT/SWART	
8		Sieveleimring for lysinstallasjon/ Loop terminal for light installation
9	BRUN/BROWN	
10		Faseleder 110V/Phase conductor 110V
	GRØN GUL/GREEN, YELL.	Jordleder/Earth conductor

110V installation. VMP-500/600/660kW-60Hz.

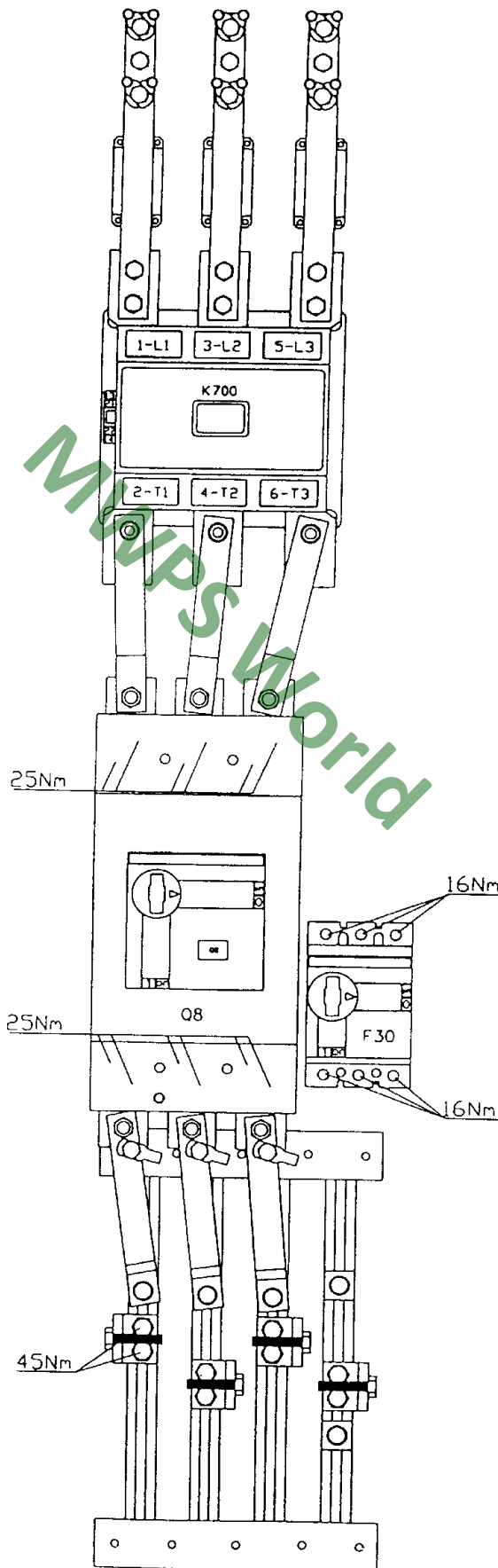
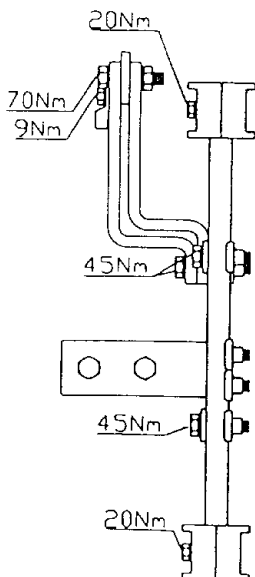
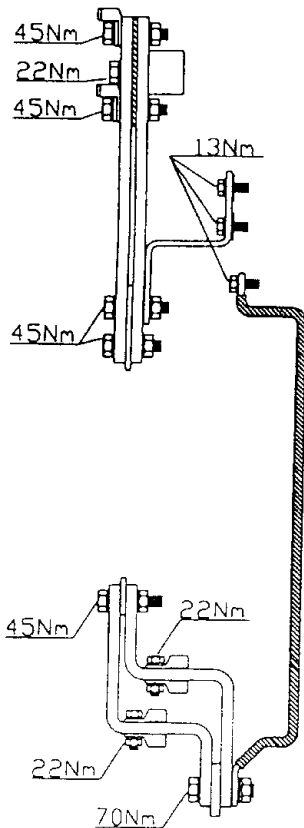
110V installation. VMP-500/600/660kW-60Hz

REV DATE	SIGN	APPD	JOURNAL NO
R	950831	971001 MK	
LRA, MK 1		LRA, MK 1	3
5	6	7	9
DATE	SIGN	APPD	SCALE
930129	FP	MK	--
			922640

Vestel®

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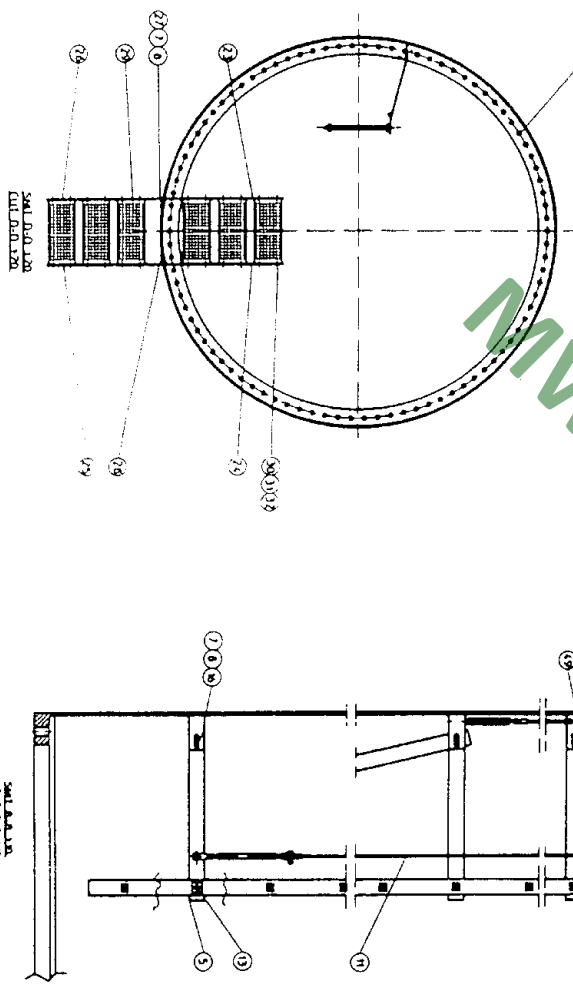
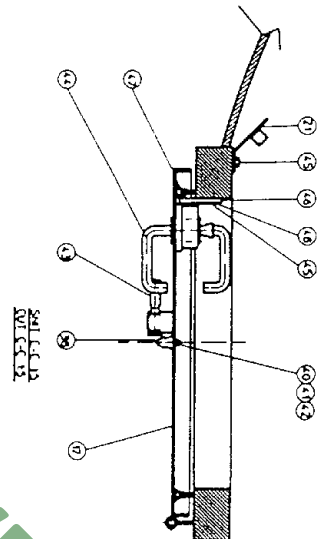
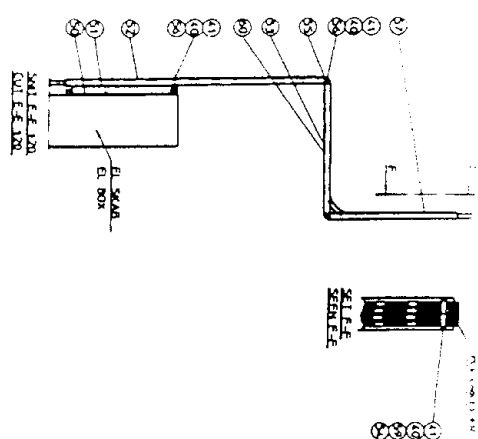
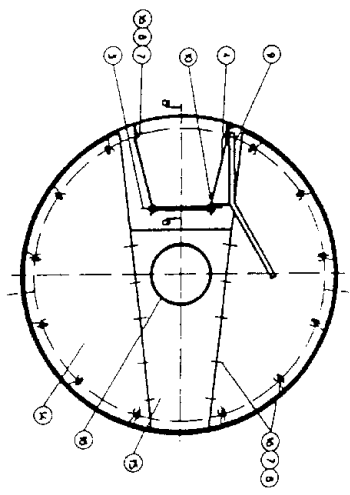
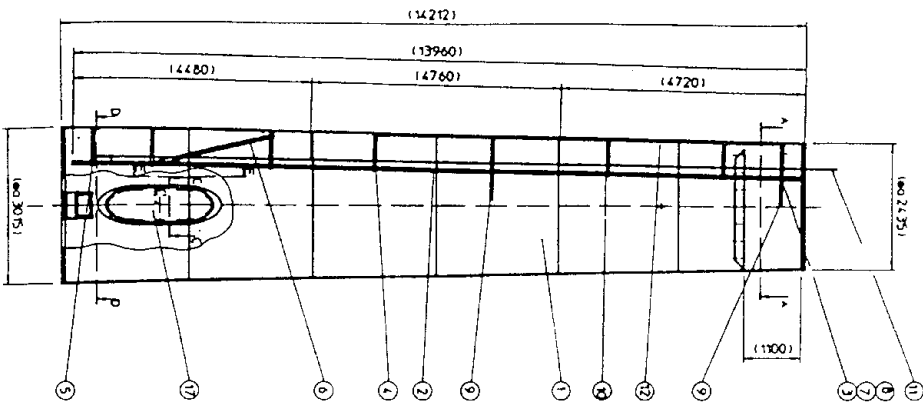
TITEL Tilspændingsmomenter i sk. sek. VMP-500/600kW-480V.

Feed torque in busb. sec. VMP-500/600kW-480V.

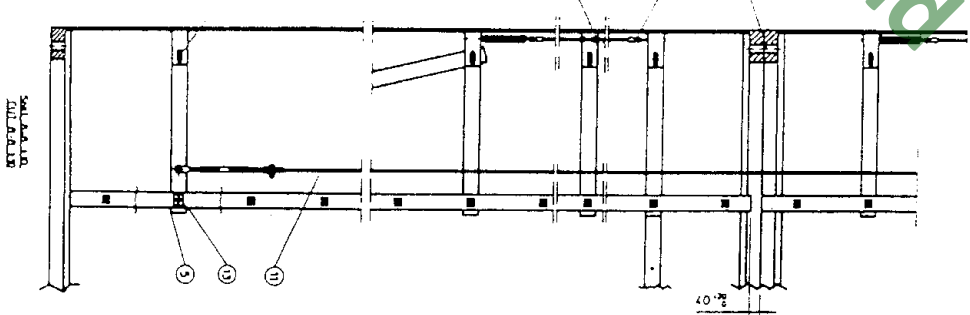
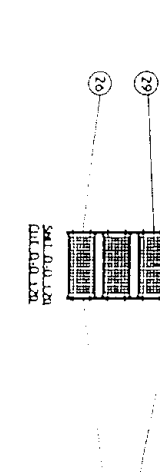
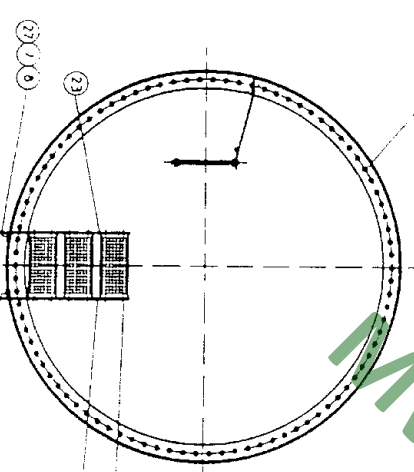
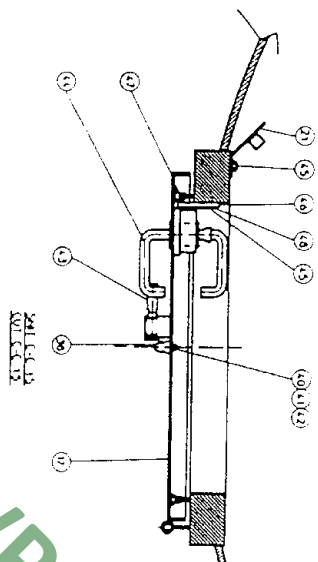
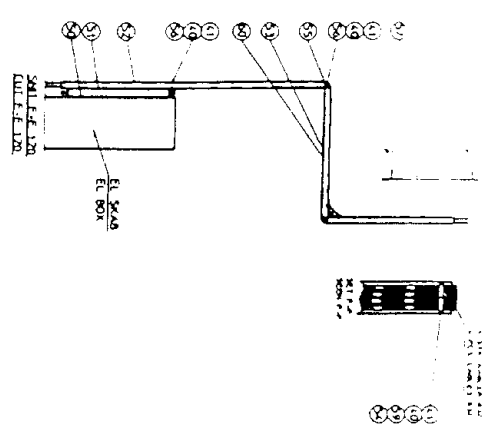
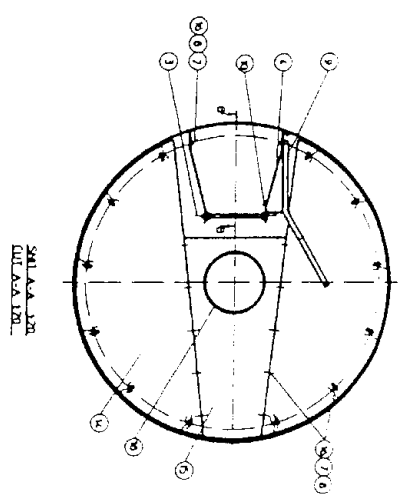
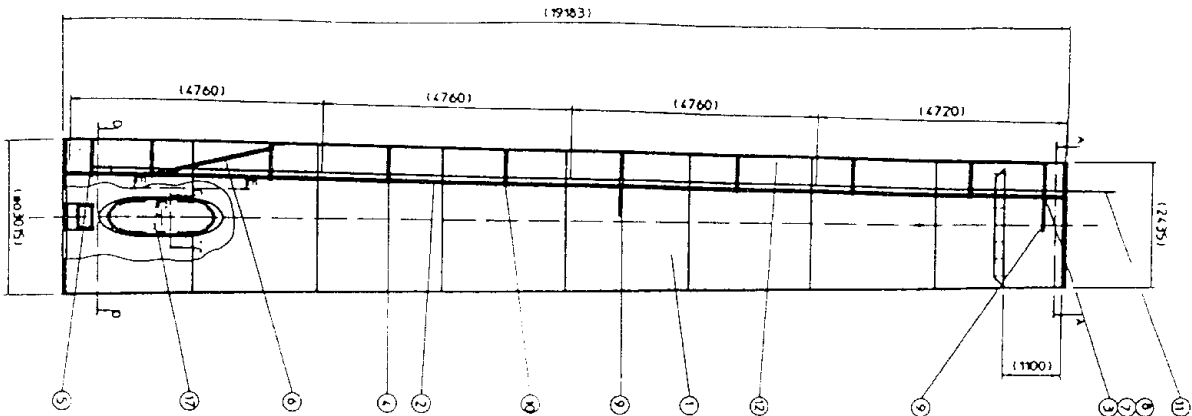
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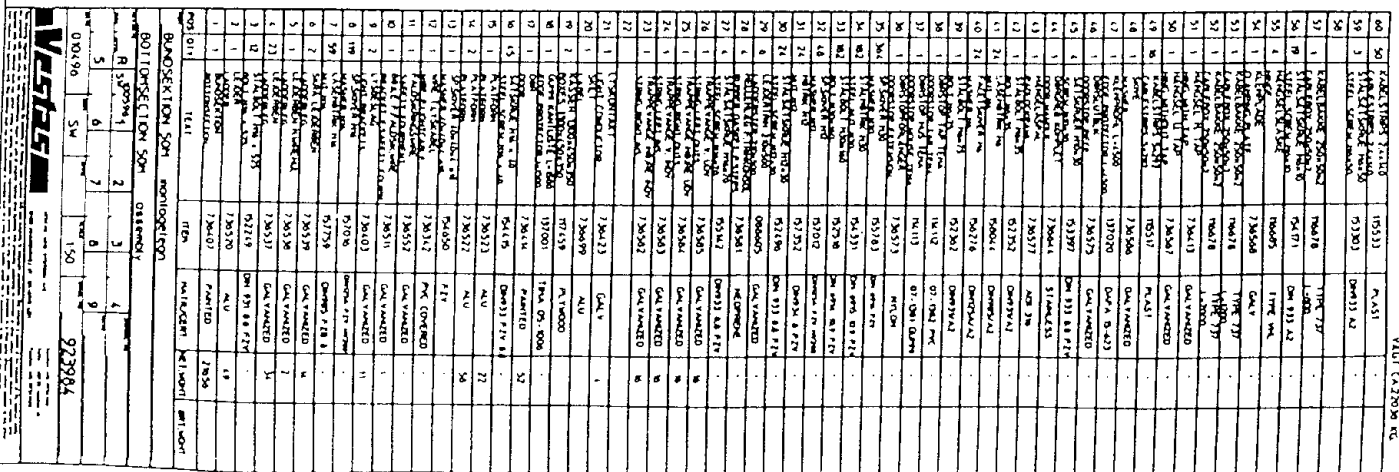


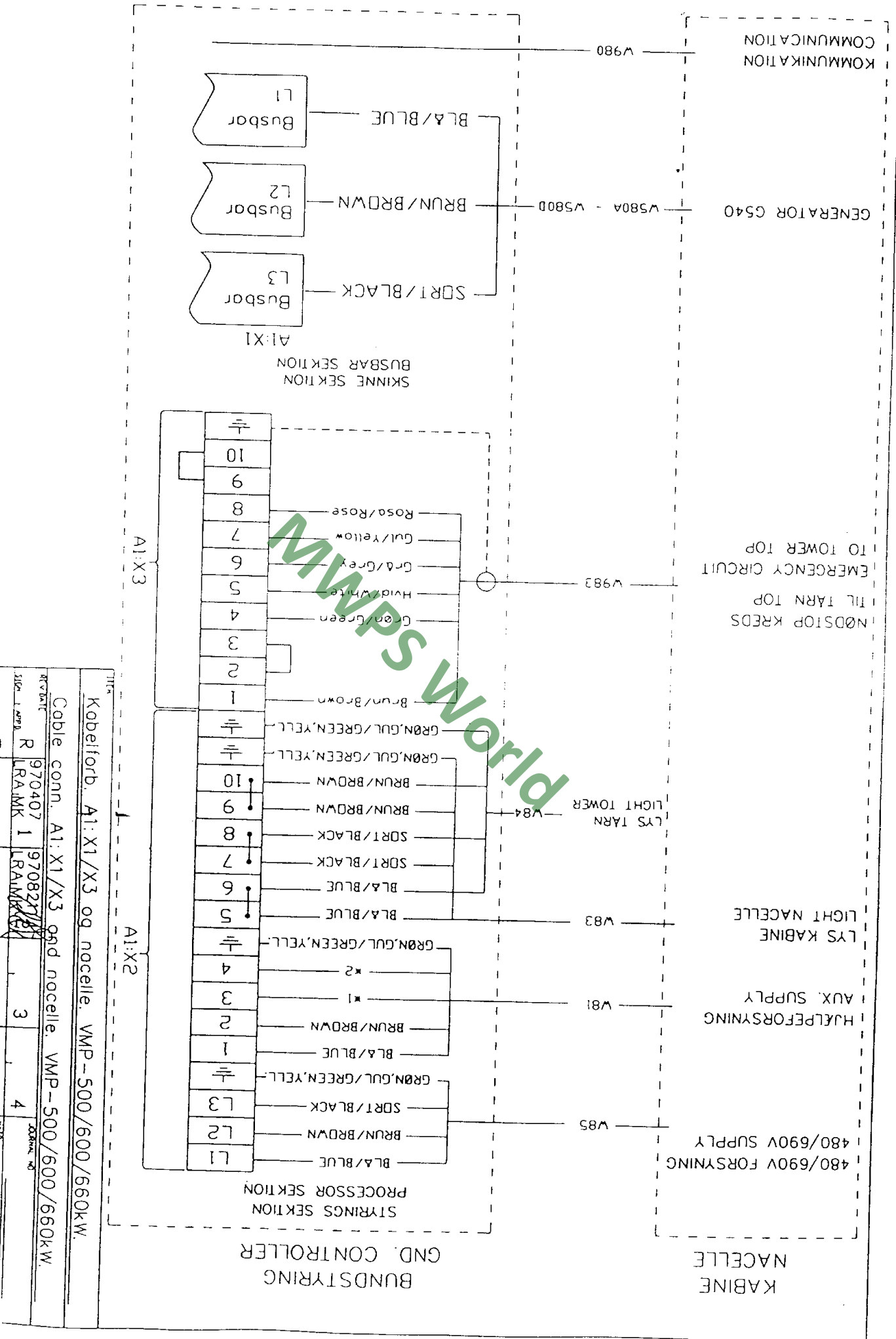
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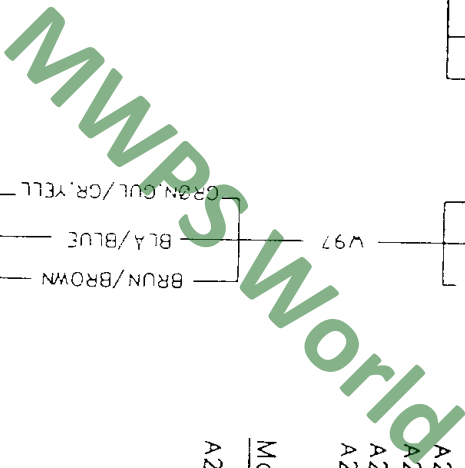
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50	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
51	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
52	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
53	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
54	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
55	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
56	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
57	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
58	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
59	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	
60	STEEL PLATE 1/2" X 12" X 120"	105.33	EA	

BOTTOM SECTION 454 MONITORING
 8 2000 1 2000 2 2000 3 2000 4
 5 6 7 8 9
 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



[illegible]

Kobelforb. A1: X1/X3 og nocelle. VMP-500/600/660kW.			
Cable conn. A1: X1/X3 and nocelle. VMP-500/600/660kW.			
REV DATE	970407	1	970827
SIGN. & APP'D.	LR/AMK		LR/AMK
		3	4
			LOCAL NO



+	
N	
L	

Vestibals

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VESTAS WIND SYSTEMS A/S

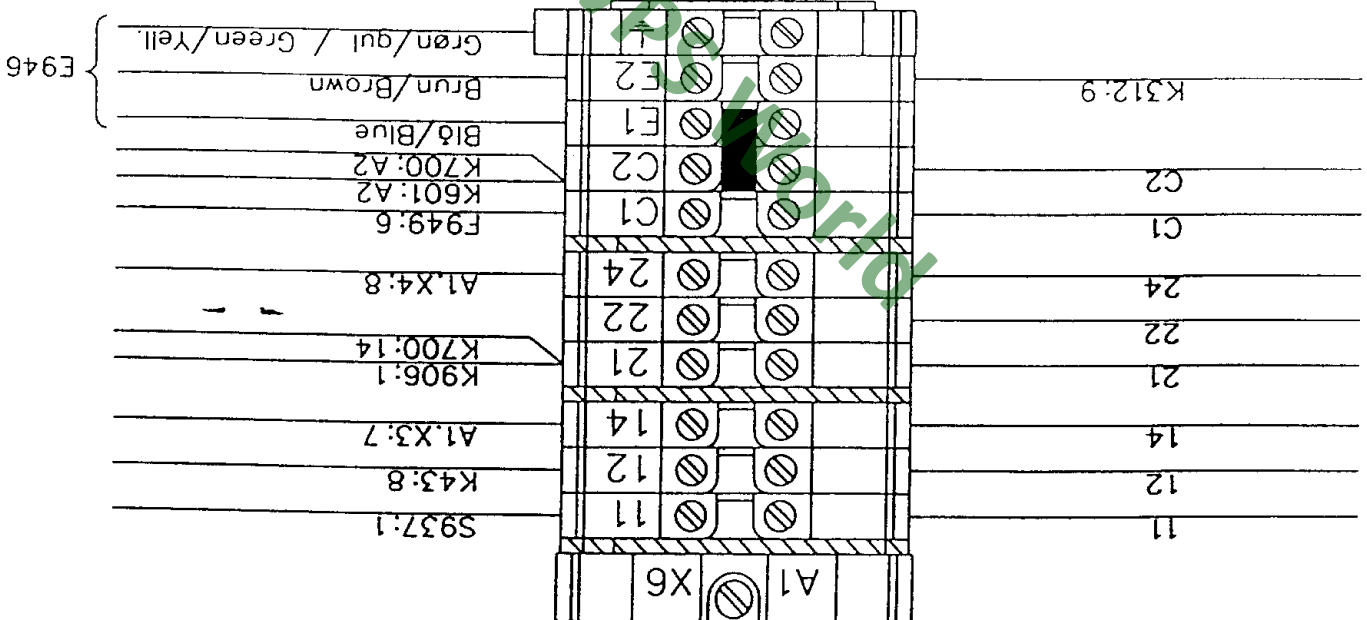
Telefon +45 97341188
Telefax 60733 vestas dk
Telefax +45 97341420

SUED HANSENVISJ 27 DK-6940 LEM

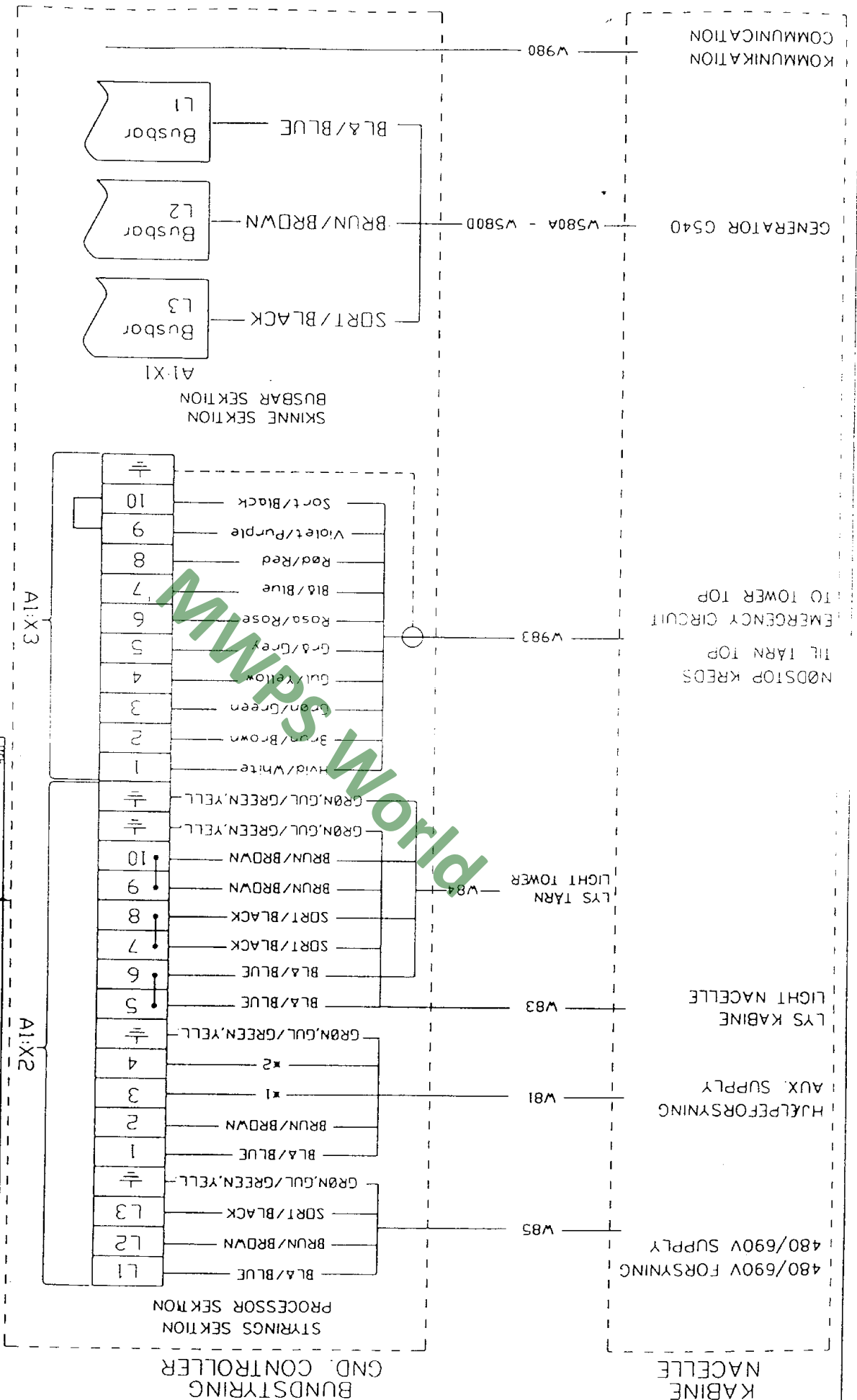
DATE		970121		SIGN.		LRA		APPRO. MK		SCALE		1:1		DRWG. NO.		924687	
REVDATE		R		1		2		3		4		5		6		7	
SIGN. APPRO.		6		7		8		9		10		11		12		13	
JOURNAL NO.		4		5		6		7		8		9		10		11	

Terminal A1.X6

Terminal A1.X6



1. Sort mellem brun og grøn/gul / Black between brown and green/yell.

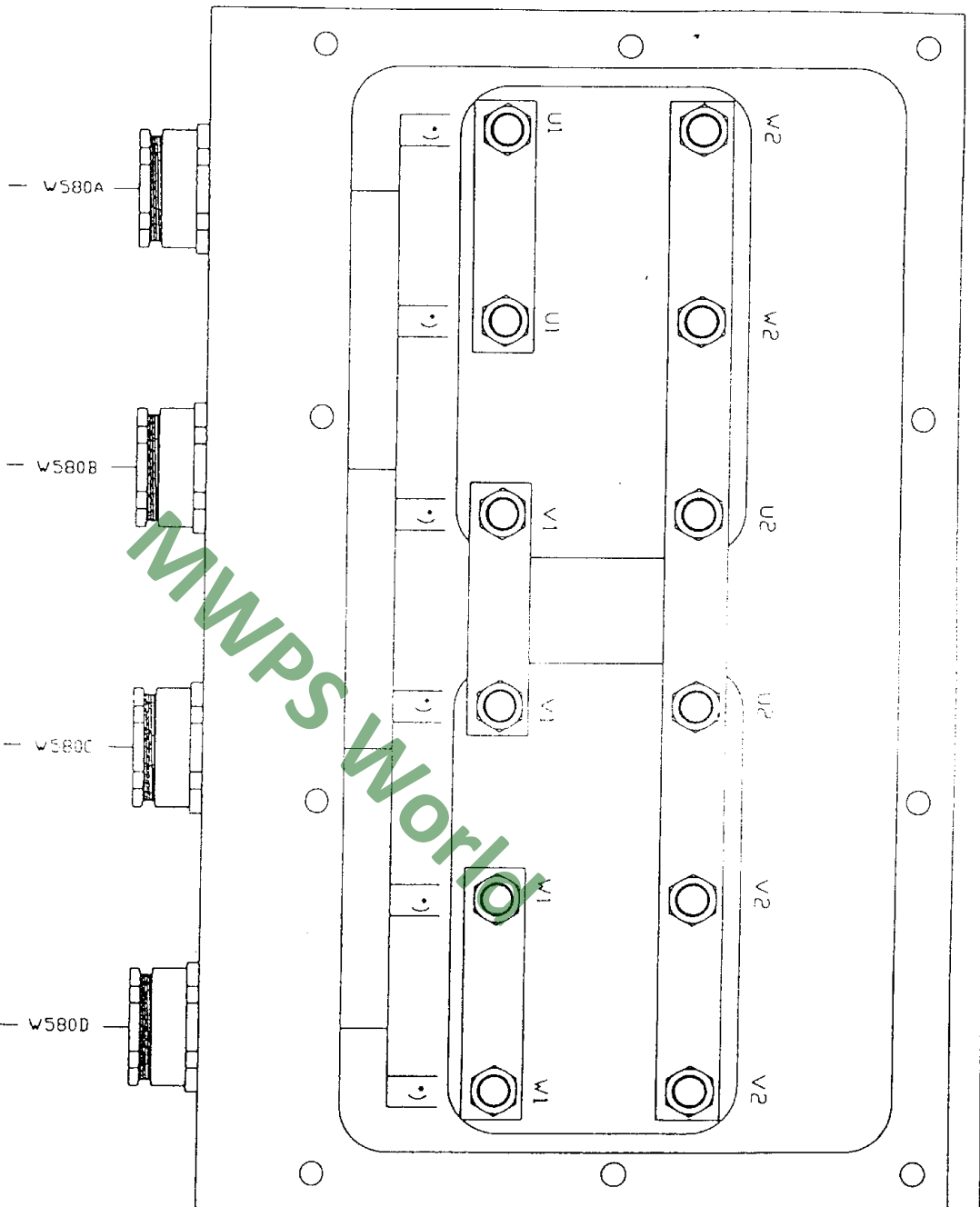


Kobelforb. A1: X1/X3 (batteri backup). VMP-500/600/660kw.									
Cable conn. A1: X1/X3 (batteri backup). VMP-500/600/660kw.									
REV	DATE	R	970821	1	2	3	4	JOURNAL NO.	
	SPEC. & APPD.	LRA	MAK					NO. 18	
	5		6		7		8		9
DATE	970407	SPEC.	LRA		APPD.	MAK	SCALE	1:1	DRAW. NO.
									924688

Vestibol

VECTAS VIDEO SYSTEMS A/S
SØND HUNDENSVEJ 27 DK-6940 LCM

Telefon +45 97241188
 Telefax +45 97241120



Flapendingsmoment pò M12 = 51Nm
Torque on M12 = 51Nm

*) FLENDER/HANSEN gear :
U1 Blå/Blue
V1 Brun/Brown
W1 Sort/Black
VALMET gear :
U1 Blå/Blue
V1 Sort/Black
W1 Brun/Brown

The drawing represents the construction of the cable assembly. It is not a photograph. The drawing is based on the information provided in the technical specifications. The drawing is not a photograph. The drawing is based on the information provided in the technical specifications. The drawing is not a photograph. The drawing is based on the information provided in the technical specifications.

Kabelmonty Leroy Somer gen. VMP-600kW-690V.

Cable assem. Leroy Somer gen. VMP-600kW-690V.

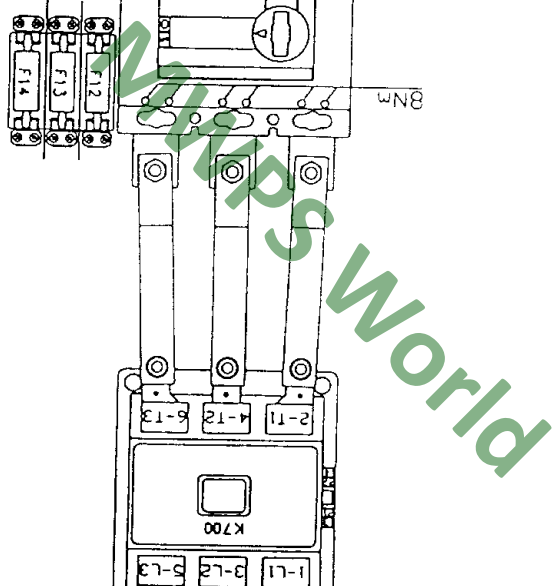
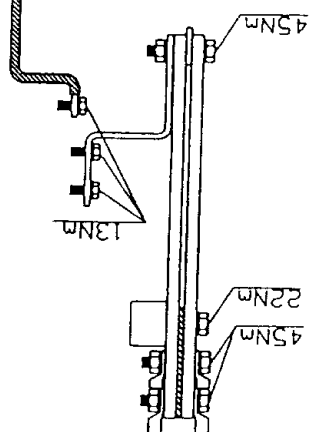
REV	DATE	DESCRIPTION	BY	CHKD	DATE
R	970821	1	LRA/MK	3	4

DATE	REV	DESCRIPTION	BY	CHKD	DATE
961125	5	6	7	8	9

924768

Vestas

Vestas Wind Systems A/S
Sønderhojvej 27 DK-4900 LCM
Tlf: +45 73121188
Fax: +45 73121189



5	6	7	8	9
970317	LRA	MK	1:5	924793

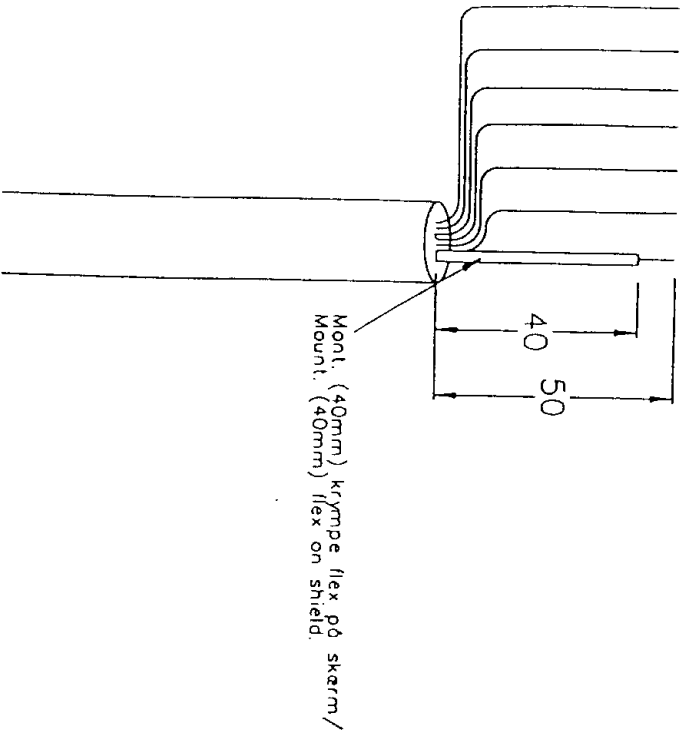
Vactrac VECTAS VIDEO SYSTEMS A/S

Telephone +45 97311188
 Telex 33333
 Cables 33333

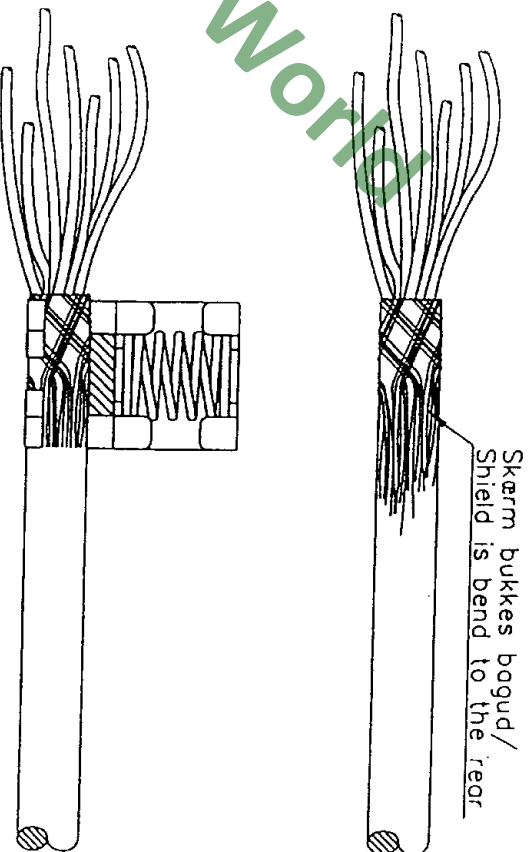
Telephone: 45 97241188

Montering of skærmet kabel i klemme/ Mounting of screened cable in clamp

1
2
3
4
5
6
7



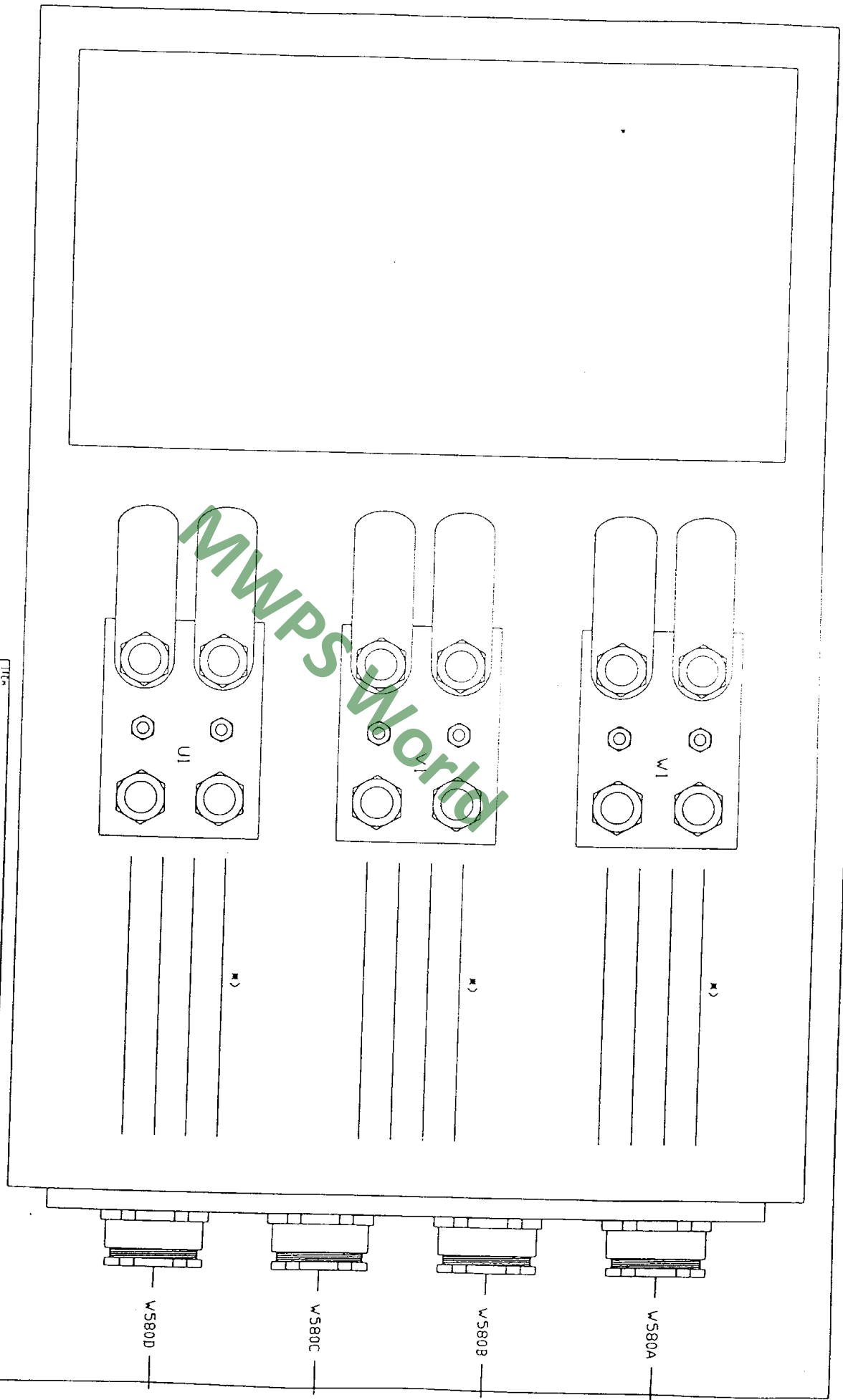
Montering of skærmet kabel på jordskinne/ Mounting of screened cable in earth-roll



Mont. of kabel med skærm

Mount of cable with shield

REVID DATE	1	2	3	4	ADDITIONAL NO.
STOK I APP. R	1	2	3	4	
5	6	7	8	9	
DATE 970417	VKP	CMK	TECH	BRUC NO.	924795



*) FLENDER/HANSEN gear :

Tilspændingsmoment på M8 = 25Nm
Torque on M8 = 25Nm

Tilspændingsmoment på M16 = 92Nm

Torque on M16 = 92Nm

VALMET gear :

U1: Blå/Blue
W1: Brun/Brown
W1: Sort/Black
U1: Blå/Blue
W1: Sort/Black
W1: Brun/Brown

Kabelmont. WEIER gen. VMP-600kW-480V.									
Cable assemb. WEIER gen. VMP-600kW-480V.									
Rev. date	R	1	2	3	4	Drawing no.			
Side 1. APP.	5	6	7	8	9	DATE			
DATE	961017	LRA	APP.	1:2	924839	WATER			

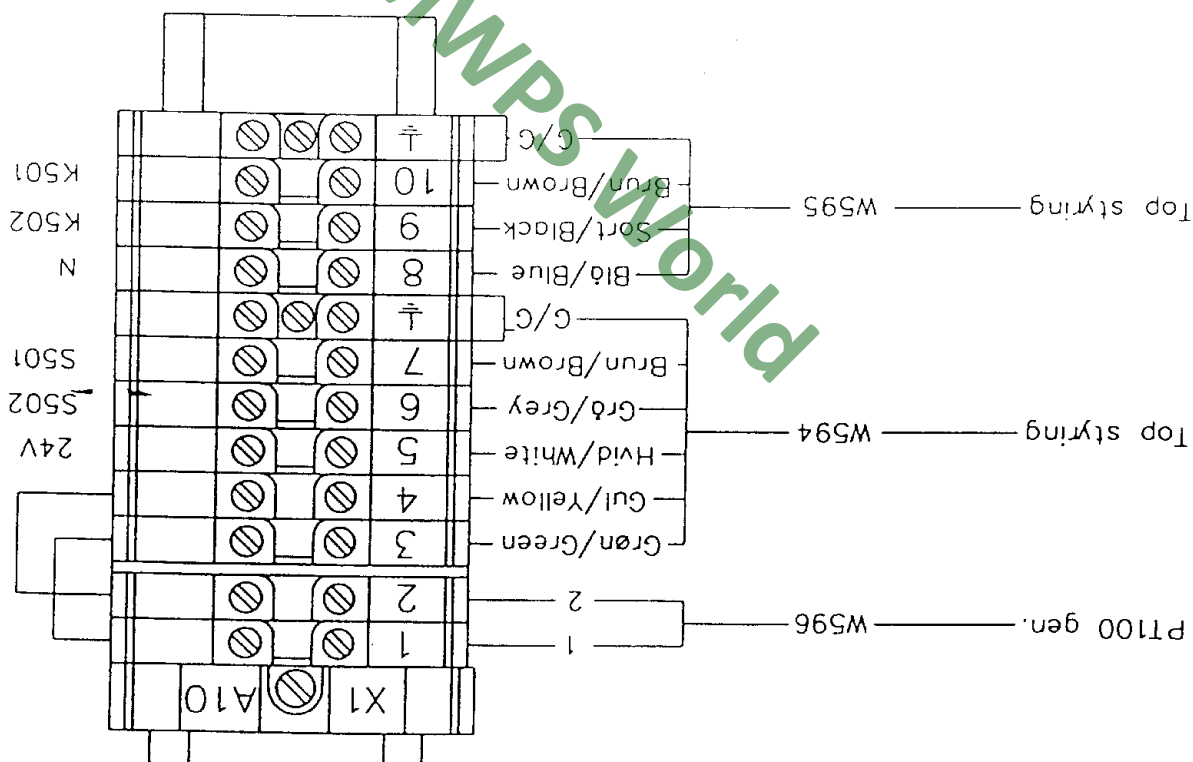


VESTAS WIND SYSTEMS A/S

Telefon +45 97341188

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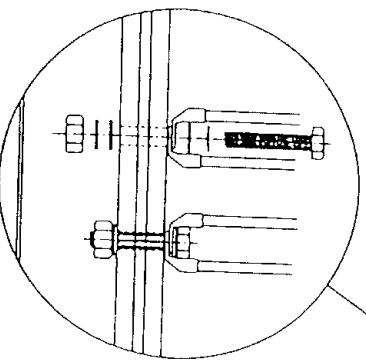
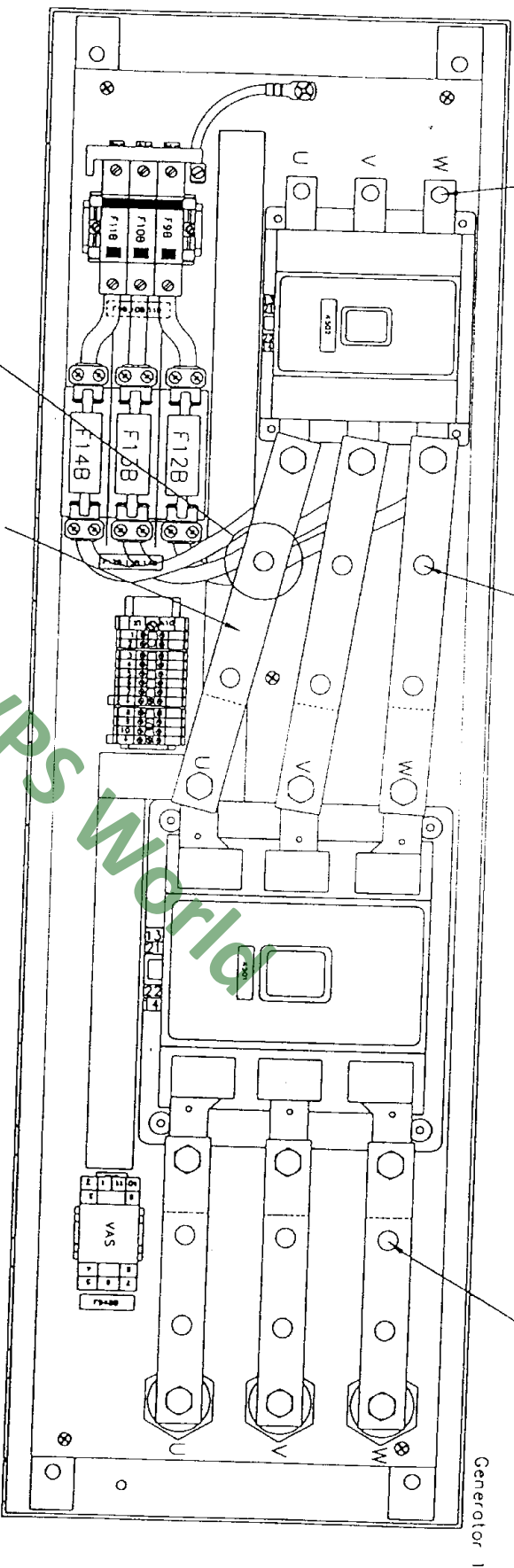
terminal A10.X1. Gen. valgs kasse. V47



70mm² vinkel kobelsko (45 Nm) /
70mm² ongle cable socket (45 Nm)

35mm² vinkel kobelsko (45 Nm) /
35mm² ongle cable socket (45 Nm)

35mm² vinkel kobelsko (45 Nm) /
35mm² ongle cable socket (45 Nm)



Montering af vinkelkobelsko på kobberstrikker
Mounting of angle cable socket on copperbusbar

- W - Sort/Black
- V - Brun/Brown
- U - Blå/Blue

Komponentplac. i Generatorvalgskasse V47

Componentplac. i Generator selection box V47

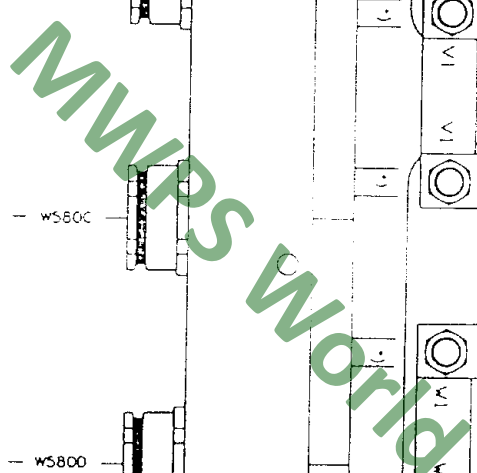
Gen	1	2	3	4	5	6	7	8	9
Gen	5	6	7	8	9				
Gen	5	6	7	8	9				



Vestlys MNO SYSTEMS A/S

VE47 V47 MNO SYSTEMS A/S
Sønderborgvej 71 DK-8930 Ullum
Tlf: +45 87311000
Fax: +45 87311020

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Generator type: FL5B 400 LKC

Tiltspringmoment på M12 = 50 Nm
Torque on M12 = 50 Nm

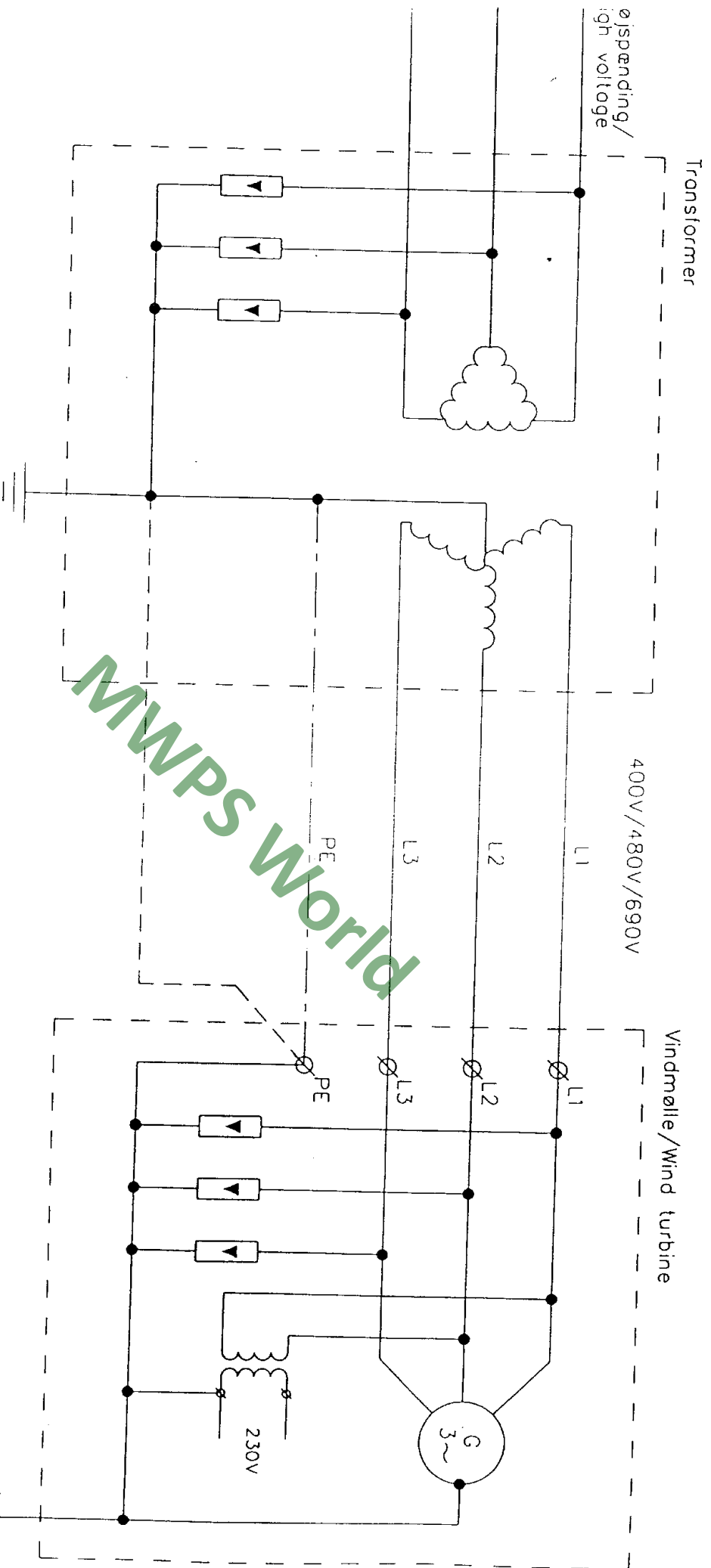
*) FLENDER/HANSEN : U1: Blü/Blue
VALMET gear V47 V1: Brun/Brown
W1: Sorl/Black

VALMET geor
type S3CHD-506x
U1 Blk/Blue
V1: Sorl/Black
w1 Brun/Brown

Cable assembl. Leroy Somer gen. 600/660kW-690V.					
	DATE	R	LRA	EGR	REMARKS
5		6	7	8	9
970929	SICK	LRA	APPE	EGR	NOV 20
					924880

Vestibol

VESIAS WIND SYSTEMS A/S
VESIAAS VIND SYSTEMS A/S
Tel: +45 9724188
Fax: 60723 vesias o
E-mail: +45 9724120



TN-system : IEC 364 312.2.1. (Elektriske installation)
 TN-system : IEC 364 312.2.1. (Electrical installation)

Systemjording. TN-S.

System earthing. TN-S.

PE leder i forsyningskabel/
 PE conductor in supply cable.
 eller/or
 Separat blank Cu-leder/
 Separate bare Cu-conductor.

Systemjording. TN-S.									
System earthing. TN-S.									
Rev. dato	940427	940624	970731	980808	980808	980808	980808	980808	980808
Sign. MPR	R	FP, MK 1	FP, MK 2	LRA, MK 1	LRA, MK 2	LRA, MK 3	LRA, MK 4	LRA, MK 5	LRA, MK 6
Dato	5	6	7	8	9	10	11	12	13
Rev. dato	920127	FP	MPR	MK	SEAL	DRUG	DRUG	DRUG	DRUG
948636									

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Vestas

VESTAS WIND SYSTEMS A/S

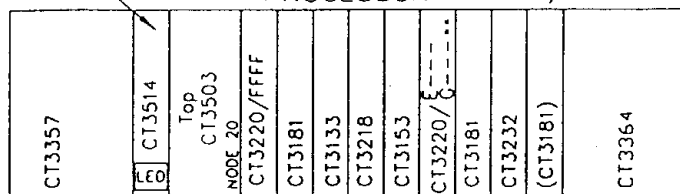
Telefon +45 97341188

TOPSTYRING/ TOP CONTROLLER

ID20
ON OFF

600kW - CT3133

PROCESSOR



Rotor Current
Controller
(Kun/only 600kW.)

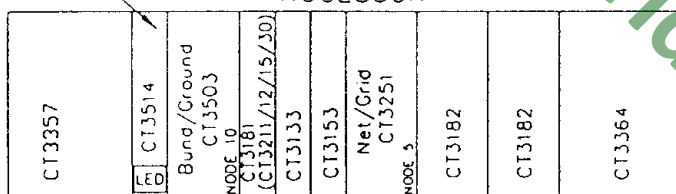
W980

TOWER

BUNDSTYRING/ GROUND CONTROLLER

ID10
ON OFF

PROCESSOR



CT218

#Orange inderst/Orange inner
Blå yderst/Blue outer
*Blå inderst/Blue inner
Rød yderst/Red outer

** G:Noceller med høj hydrauliktryk (180 bar)
Retrofitted eller ny nacelle (fra forår 1997)/
G:Nocelles with high hydraulic pressure facility (180 bar)
Retrofitted og new nacelle (from spring 1997)

FORTRAD TOP/BUND PROC. VMP-3500

WIRING TOP/GROUND PROC. VMP-3500

REV DATE	950405	960426	970424	ADDITIONAL NO
SIGN. L. APPR	R	FP, MK1	LRA, MK 2	VKP, MK 3
DATE	5	6	7	8
SIGN.	FP	MK	1:1	9
DATE	950306			948685

Vestas

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Telex 60723 vestas dk
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