

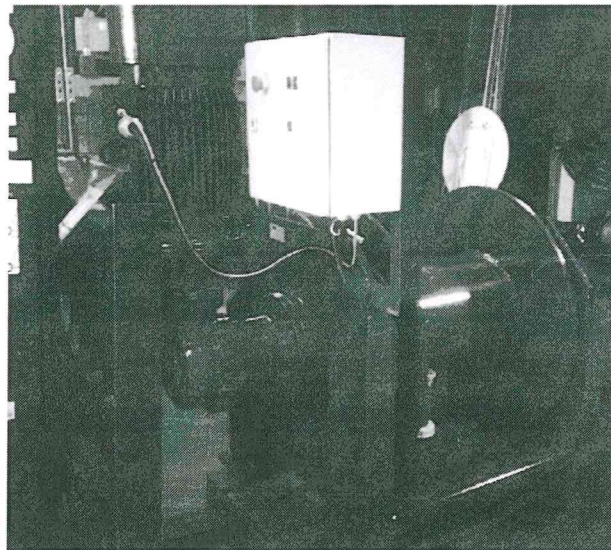
RPW0080

elec. lier WLL 10T.

010/18553B


Trekg lier

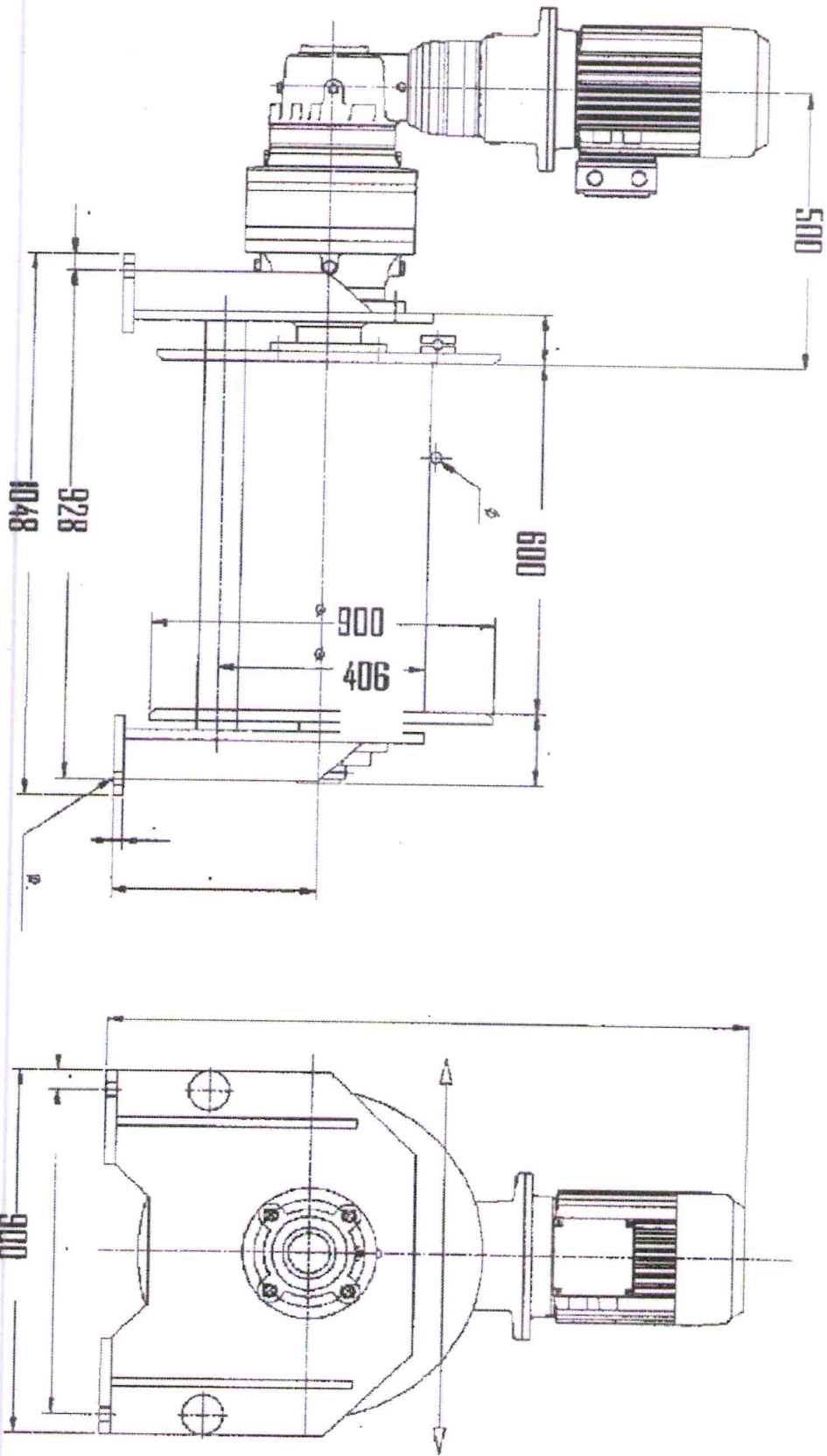
ELECTRIC PLANETARY WINCHES



Type:	LM EP10,000
Year:	2008-09
Serie:	07591

Lemans Nederland b.v. Opdracht : 07591.LGH
dd. 10 september 2008

	Lemans Nederland BV	Tel.	(+31) 0164 680097
	Postbus 527 NL-4600 AM BERGEN OP ZOOM Nederland	Fax.	(+31) 0164 681971
		E-mail	lemans@lemans-nederland.eu
		url	http://www.lemans-nederland.eu



LEMANS NEDERLAND B.V.

Lemans Nederland BV
 Postbus 527
 NL-4600 AM BERGEN OP ZOOM
 Nederland

Tel. (+31) 0164 680097
 Fax. (+31) 0164 681971
 E-mail lemans@lemans-nederland.eu
 url <http://www.lemans-nederland.eu>

RPW0080

1. INTRODUCTION

1.1. General performance

1.1.1. Electric planetary winch

	Electric planetary winch
Type	LM-EP 7500/rmi
Load-pull	Elektrische planetaire lier Trekkracht: 10,000 kg Snelheid: 11 mtr/min Berging: 250 mtr – Ø22mm in 6 lagen motor: IEC160-4 – 20Kw – 3x 400V – 50Hz – IP56 – inclusief gekapselde rem – PTC – marine-uitvoering – TENV Overbrenging: hasakse planetaire kast, afgevuld Uitvoering: met bedieningskast op de lier
Hauling speed	8.4 mtr/min in the 1st layer
Wire storage	50 mtr. Ø13 mm in 2 layers + 3 extra windings
Drum	diameter = Ø355mm. x length= 500 mm., grooved for Ø22 mm
electro-motor	IEC160-4 – 20Kw -S2 - 3x 400 Volt - 50 Hz. (440Volt - 60Hz) Isolation class : F Protection : IP 56, TENV (totally enclosed not ventilated) Executed with :- electromagnetic brake; - PTC – marine execution (cast steel)
Transmission	Square angled planetary gear unit RA1700T MS
Extra's	<ul style="list-style-type: none"> ➢ Disc-brake (fail-safe), on the back of the motor, (spring applied/ electromagnetic released) <ul style="list-style-type: none"> ○ Brake tension: 400 Volt AC ○ Spool tension: 196 Volt DC ➢ Extra heavy marine seals ➢ Standstill heater, mounted on the motor
Quantity	1 unit
Preservation	Blast cleaned and coated
Drawing	Standaard, see TAB-32
Custom number	8425 31 90

1.1.2. Electrical switchboard mounted on above winch

Consisting of	<ul style="list-style-type: none"> ➢ Fuses, relays', wiring, transformer, standstill heater, etc.Switch material on the box: main-switch /emergency stop ➢ Controls on the box, switches: <ul style="list-style-type: none"> ▪ on/off ▪ left/ right ▪ Emergency stop
Electrical tension	3x 400 Volt - 50 Hz. + Zero
Protection	Box : IP54 Remote control : IP65
Quantity	1 units
Drawing	see TAB-10

RAWOODO

ELECTRIC SCHEME FOR THE SWITCHBOARD

Scheme

Electric switchboard for LEMANS winch,
fab.nr.: 07591

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A4.2. Mounting

The switchboard - box has to be placed beneath deck, preferably next or at least in the vicinity of the winch. In a dust-, acid-, moist- and water-free environment.

Switchboard boxes must be fixed by means of bolts of proper size bolting, 8.8 grade is suitable for the most of the applications. Be sure that the box and the controls are easy to access, with enough space to escape when necessary.

Make sure the winches' controls are so installed, that the operator of the winch can oversee all surroundings of the winch in general, and the drum and the wire rope (-s) in particular. Avoid unnecessary hazards. **When people are to close to the wire rope, do not hesitate to stop the winch and warn them or even let them be removed from the site.**

Switch-boxes of this type generate magnetic/inductive fields, make sure it does not interfere any other equipment. It is also possible that other equipment in the surroundings generate even stronger magnetic/inductive fields, which will interfere with this equipment. One can resolve both examples by placing lead firewalls between them. Lemans Nederland bv is not responsible for any damages which may occur from these magnetic/inductive fields.

Do not place foreign object (-s) against or on the winch controls or switch box at any circumstances!

Before the switchbox is used, be sure that all condense water inside the Electro-motor is vaporised. This will be obtained by powering the anti-condense standstill-heater inside the box. To have the maximum effect, it is advisable to power the standstill-heater at all time. But if the switch-box will be out of service/commission for longer periods, stocked, or if it is impossible to power it at all time, make sure that before commissioning the winch the standstill-heater has been powered. Depending on the time it has been still, for longer periods, it should be powered at least 12 hours before commissioning. One powers the anti-condense standstill-heater, by switching the main-switch to "on".

To work with electricity is extremely dangerous please take care. If one is not familiar with electricity please ask for professional help !!

Never open any cover, hatch or lid. There are no user serviceable parts inside. Refer servicing to qualified service personnel. It may contain open electrically charged metals. These are life threatening

1.B.3. Maintenance:

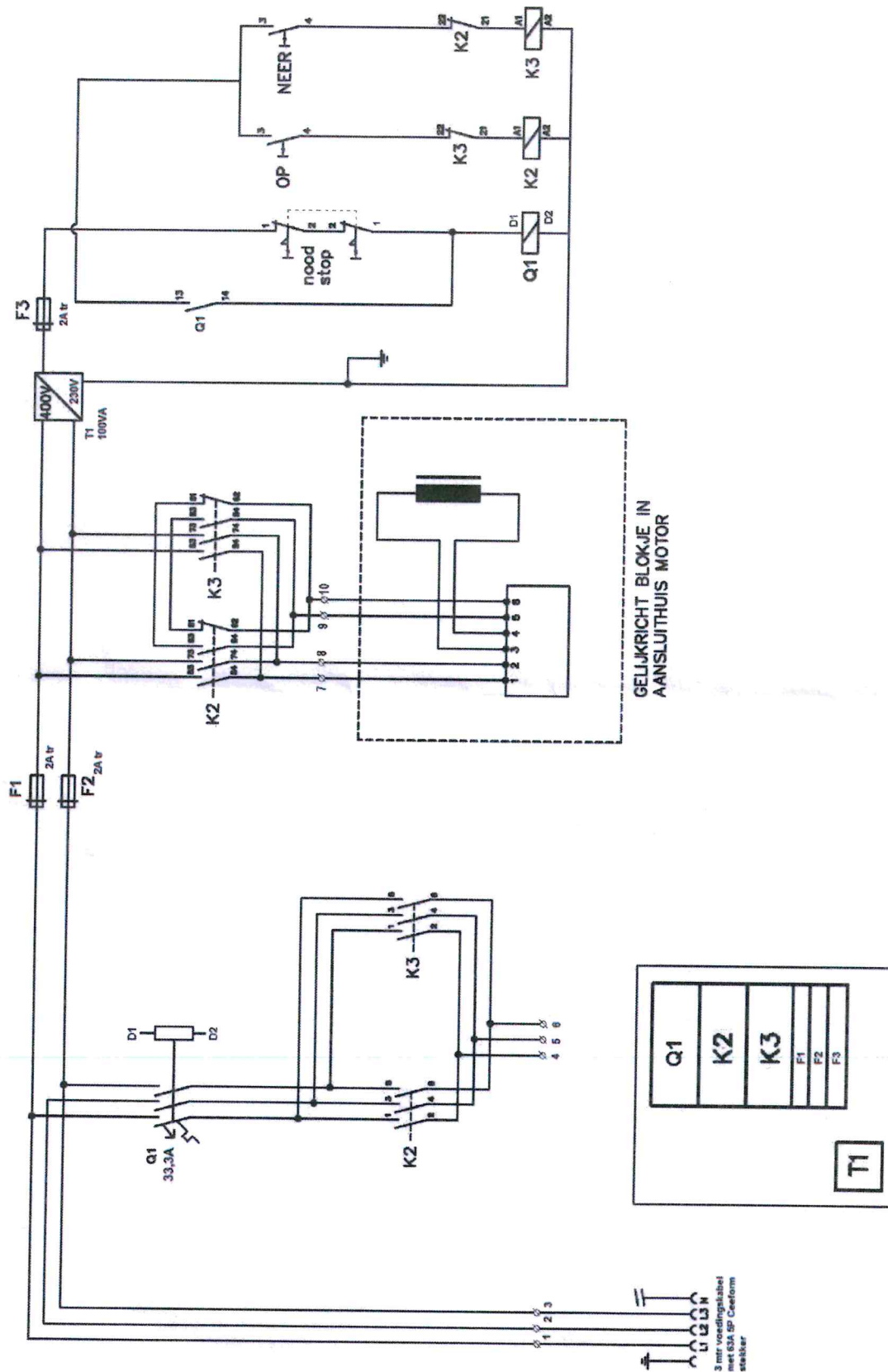
When something damages the box, even minor cases, always begin inspection by switching off the electricity, which supplies the box and/or the winch!

1. Check periodically the tightness of all external nuts/bolts and the frame fixing bolts and that the good alignment situation between gear, winch and skid is kept.
2. General Unless the equipment generates excessive heat or vibration no other maintenance should be necessary.
Check periodically the fuses. And equipment and wiring on burn-stains, dust or other alien-matter. Replace if it seems necessary.

Before executing any maintenance and/or repairs to the switch board or its box make sure that the electric power has been switched "off", so that it cannot interfere with the job which has to be done. Also remove/drain all remaining electric power by letting it make 'earth', check thoroughly. (Capacitors and coils can store potential electric power for a long time! And any electrical part can be seen as capacitor or coil.)

If one is on a maintenance check-up round, always avoid environmental-hazardous situations. The supplier recommends consulting with local authorities, where to dispose replaced materials and fluids. The supplier does not take any responsibility for any environmental damages.

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DRAWING

(05259400)

PARTS LIST *(tableau de pièce)*

**** not yet supplied (moins de fournir)****

LEMANS hydraulic winch (*treuil hydraulique*), LM EP 10,000
 Fab.nr.: 07591

Item	Number	Description		Type/comment
		In English -----	(en Française)	
00				
10	1	Planetary gear unit -----	(roue d'engrenage à planétaire)	RA1700
11	1	Level plug -----	(bouchon niveau)	RA1700
12	1	Magnetic emptying plug ----	(bouchon vidage magnétique)	RA1700
14	1	Filling plug -----	(bouchon bourrer)	RA1700
20	1	Electric motor -----	(moteur électrique)	IEC160-4
21	1	Hatch for connector-box -----	(clapet de boîte jonction)	IEC160-4
22	1	Connector box -----	(clapet de boîte jonction)	IEC160-4
23	1	Hatch for fan -----	(clapet de ventilateur)	IEC160-4
25	1	Disc brake assembly -----	(frein-complet)	IEC160-4
28	1	Main bearing -----	(principal-roulement)	
30	1	Base assembly -----	(fondation assemblée)	
40	1	Drum -----	(tambour)	
41	1	Wire clip (complete) -----	(trappe de fil)	


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