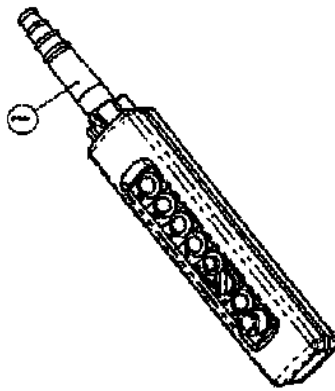
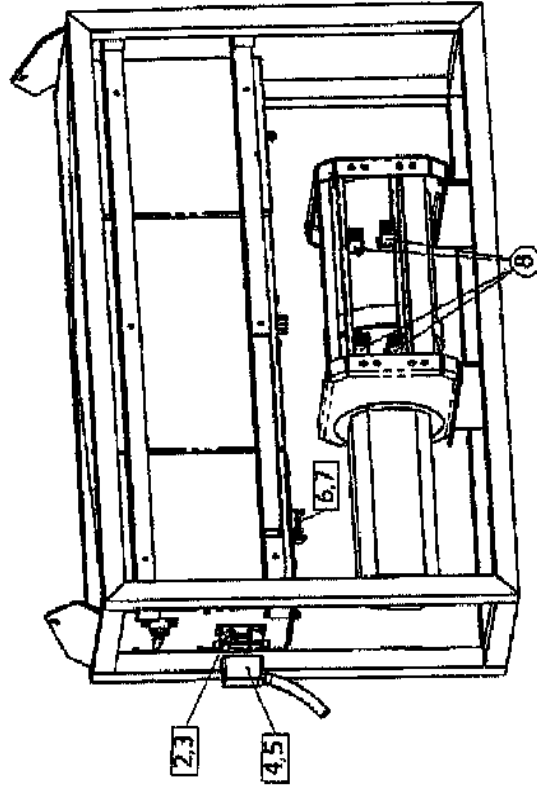


# Winch System - Electrical Components

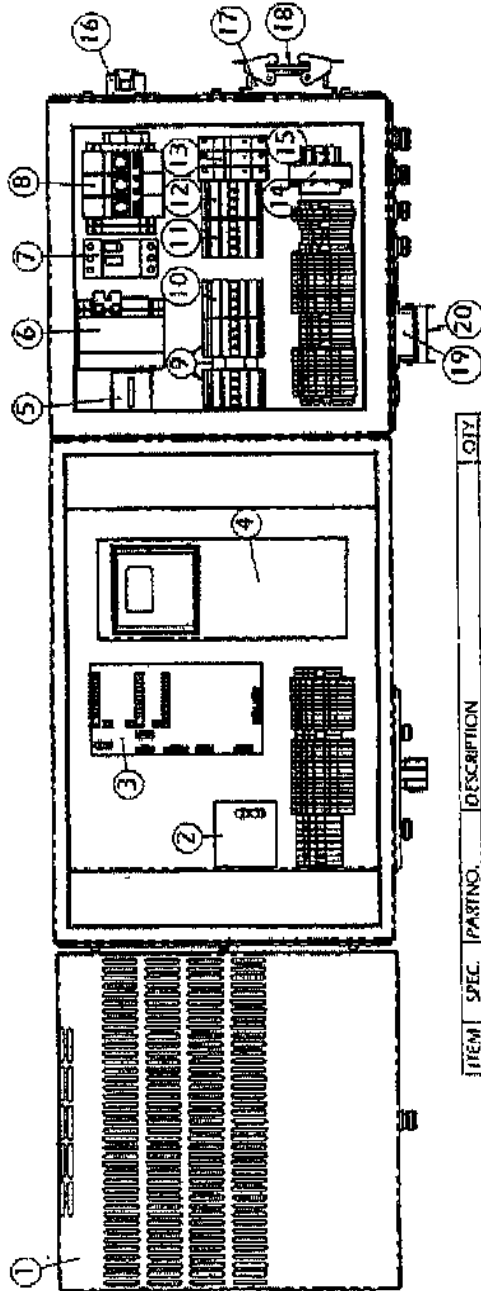


| ITEM | PARTNO.      | DESCRIPTION                        | QTY |
|------|--------------|------------------------------------|-----|
| 1    | RIG-3623-CDF | Remote Control Buttonbox & Cable   | 1   |
| 2    | RIG-3617-CDF | Connector Housing (Remote Control) | 1   |
| 3    | RIG-3625-CDF | Interior Bush (Remote Control)     | 1   |
| 4    | RIG-3618-CDF | Plug Hood (Remote Control)         | 1   |
| 5    | RIG-3626-CDF | Interior Pin (Remote Control)      | 1   |
| 6    | RIG-3629-CDF | Connector Housing (Drive Motor)    | 1   |
| 7    | RIG-3630-CDF | Interior Bush (Drive Motor)        | 1   |
| 8    | RIG-3618-CDF | Limit Switch                       | 4   |



MACHINE TYPE:  
EBE RIG CDF

# Rigging System - Winch Electrical Components

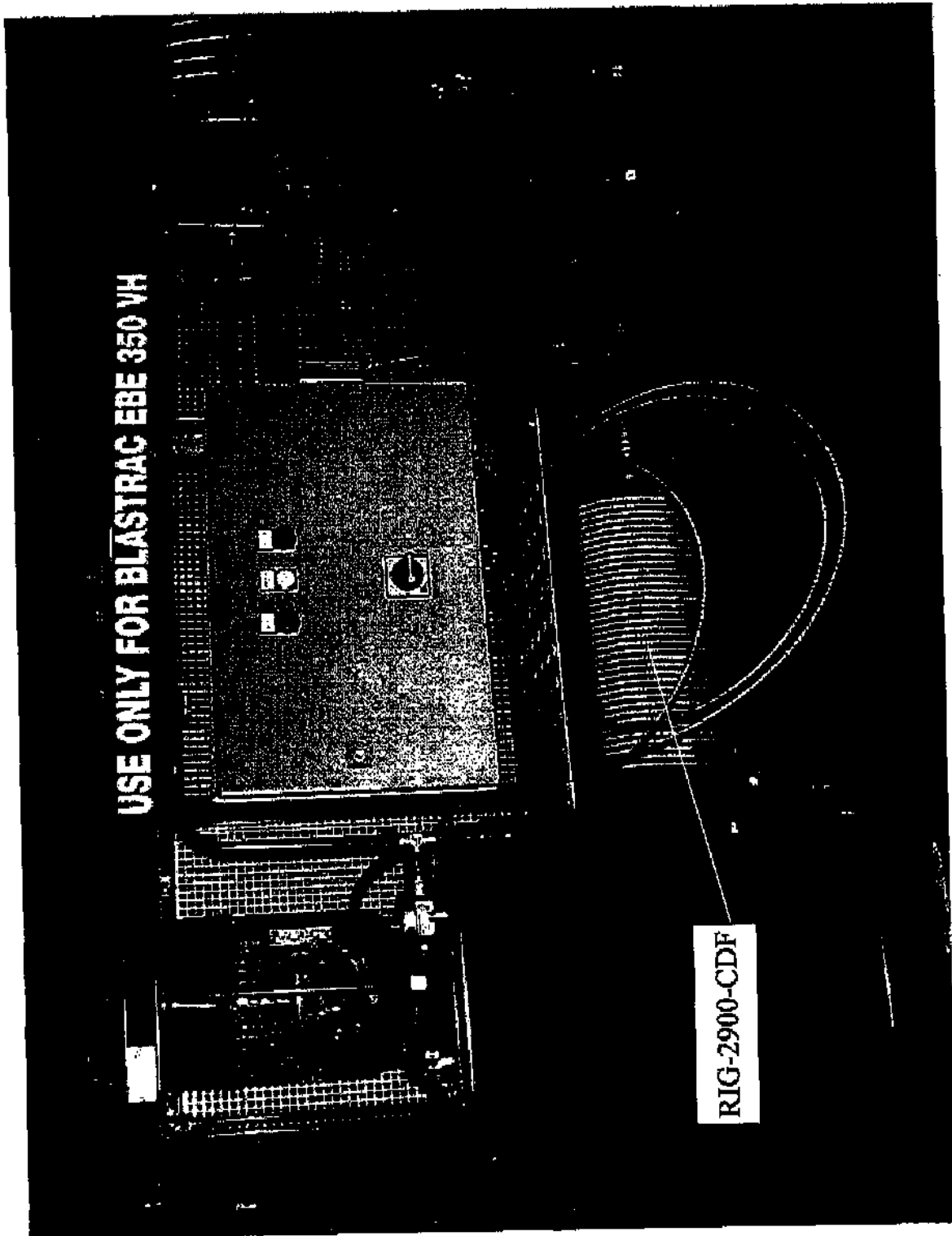


| ITEM | SPEC.    | PARTNO.      | DESCRIPTION                           | QTY |
|------|----------|--------------|---------------------------------------|-----|
| 1    | A-R1     | RIG-3615-CDF | Cooling Resistor Box                  | 1   |
| 2    | A4       | RIG-3612-CDF | Nova Speed Supervision 50/60 Hz       | 1   |
| 3    | A3       | RIG-3613-CDF | P.C.B. Dynaboard                      | 1   |
| 4    | A-A1     | RIG-3610-CDF | Variator                              | 1   |
| 5    | A-PT     | RIG-3609-CDF | Time Counter                          | 1   |
| 6    | O-F1     | RIG-3602-CDF | Transformer 320VA                     | 1   |
| 7    | O-F7     | 333-3447     | Overload 2.5 - 4.0A                   | 1   |
| 8    | O-O10    | RIG-3600-CDF | Main Switch with Fuses                | 1   |
| 9    | E-K1-1/2 | RIG-3622-CDF | Contactor Drive Left/Right            | 1   |
| 10   | A-RM1    | RIG-3604-CDF | Variator Contactor                    | 1   |
| 11   | A-RM7    | RIG-3605-CDF | Brake Contactor                       | 1   |
| 12   | O-KM1    | RIG-3603-CDF | Main Contactor                        | 1   |
| 13   | E-F1     | RIG-3633-CDF | Breather with Fuses Drive Left/Right  | 1   |
| 14   | A-F11    | RIG-3608-CDF | Brushwear Thermistor                  | 1   |
| 15   | A-G1     | RIG-3607-CDF | Brake Control Unit                    | 1   |
| 16   |          | RIG-3601-CDF | Main Switch Handle                    | 1   |
| 17   |          | RIG-3617-CDF | Connector Housing Remote Control      | 1   |
| 18   |          | RIG-3625-CDF | Interior Bush Brake Control           | 1   |
| 19   |          | RIG-3629-CDF | Connector Housing Rigging Drive Motor | 1   |
| 20   |          | RIG-3630-CDF | Interior Bush Rigging Drive Motor     | 1   |

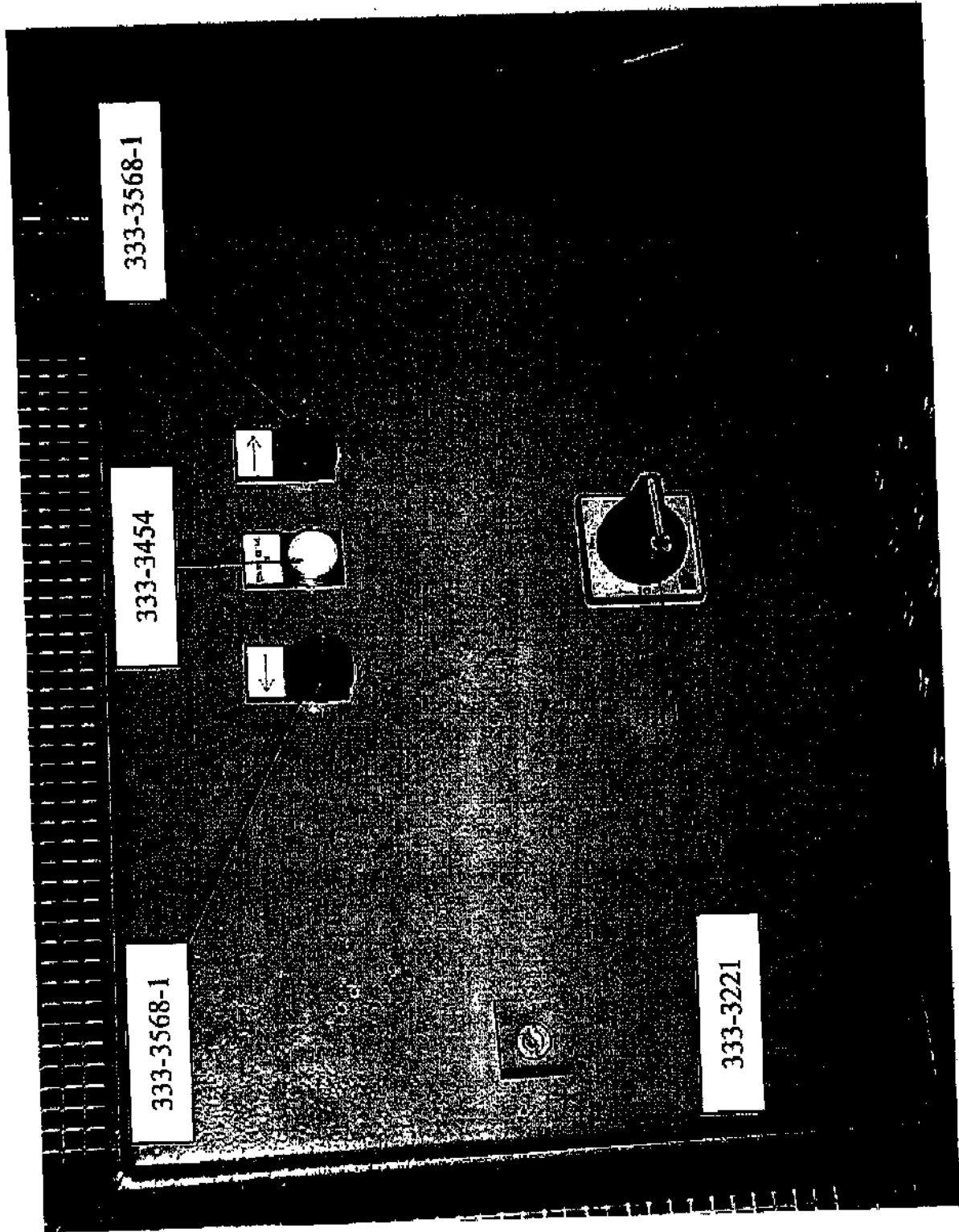
MACHINE TYPE  
**EBE RIG CDF**



# New winch system



RIG-4012-H

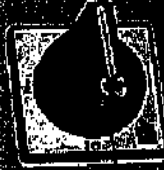


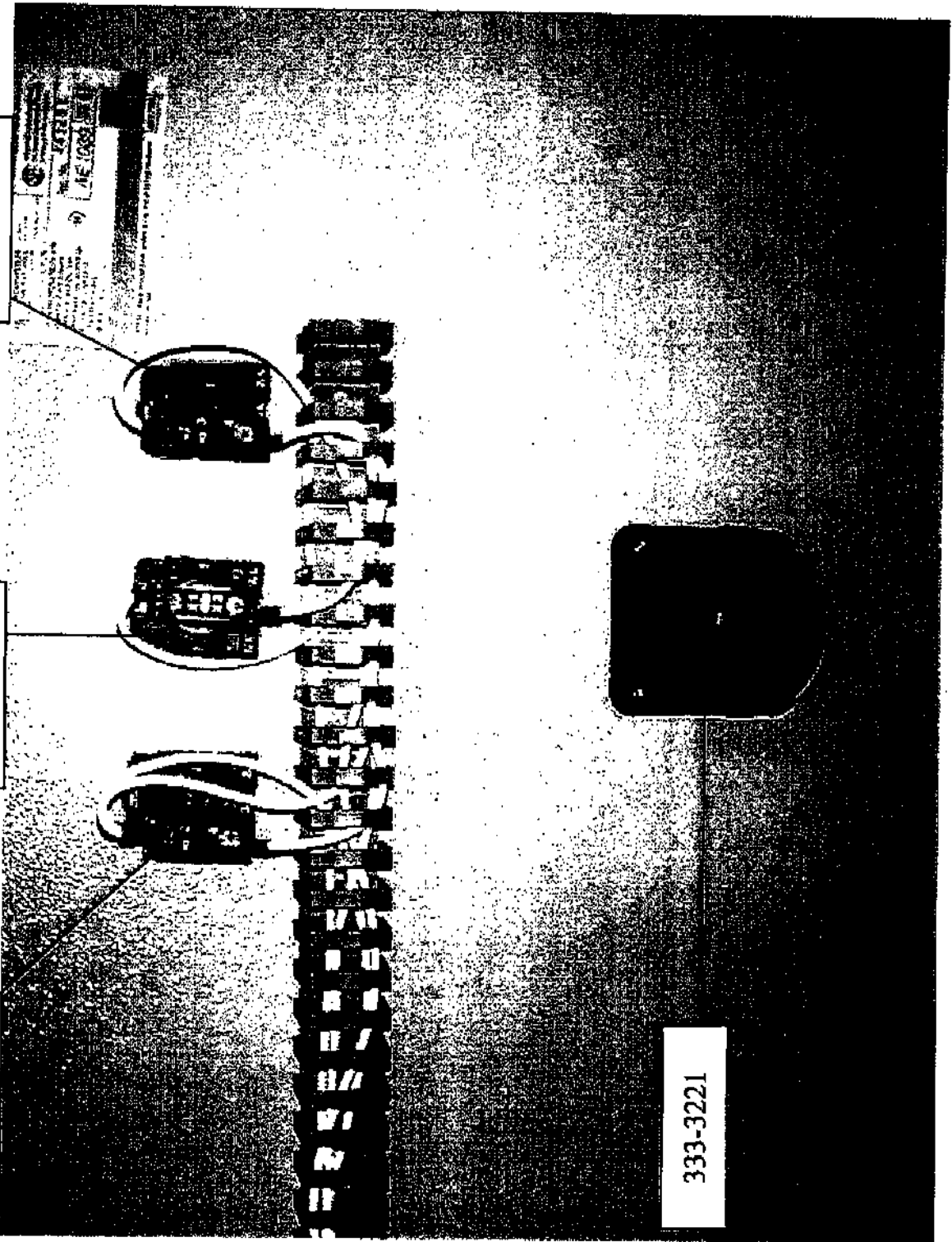
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333-3454

333-3568-1

333-3221



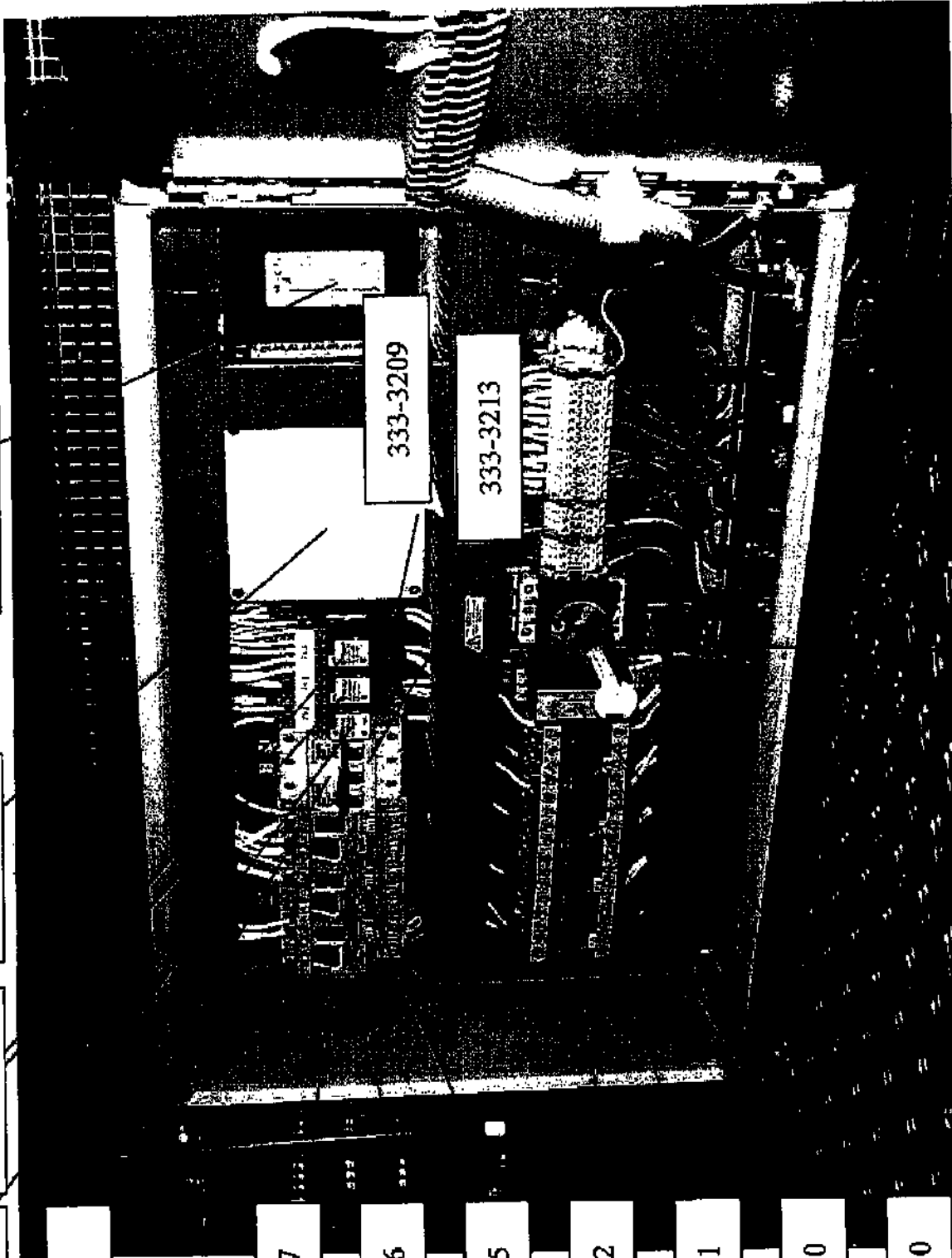


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333-3454

333-3568-1

333-3221



RIG-3651

E00416

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333-3206

333-3205

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333-3211

333-3210

333-3210

333-3214

RIG-3360

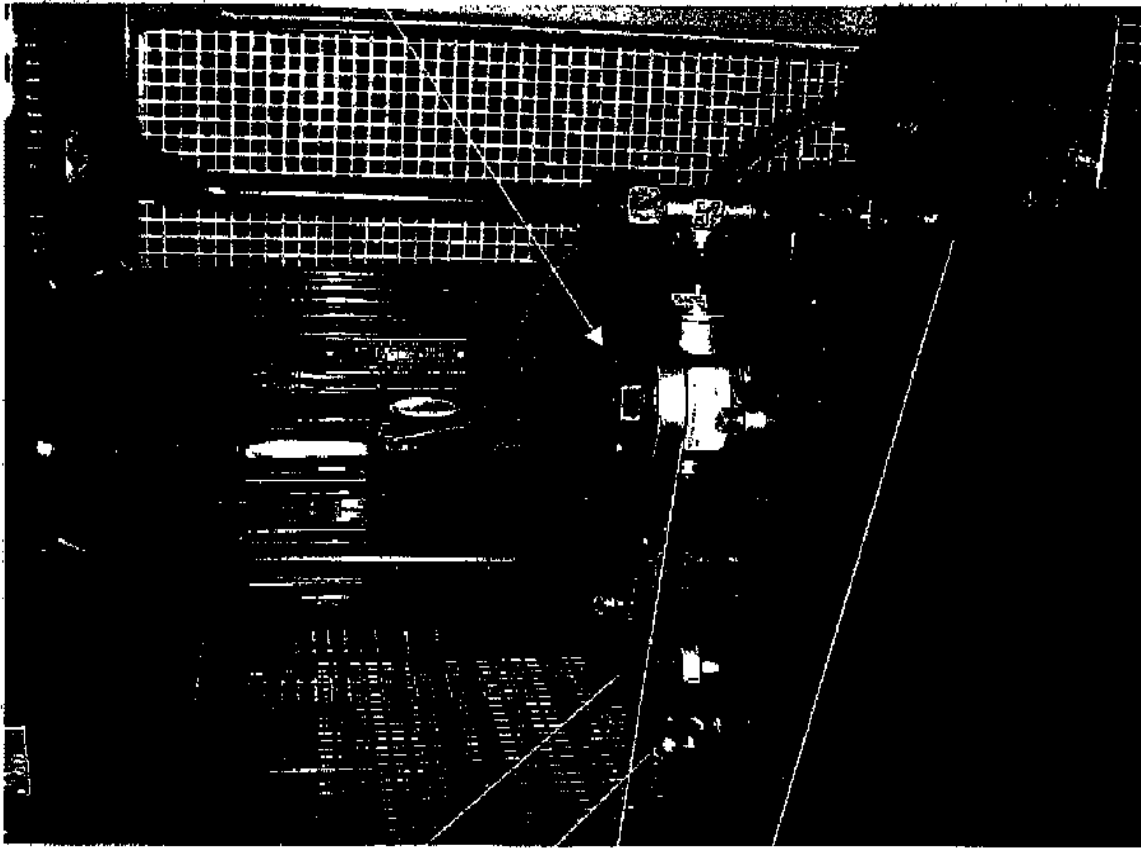
RIG-3652

333-3209

333-3213

333-3221

RIG-4012.09



RIG-4011

350-3085-S

035-4173-S

RIG-4010



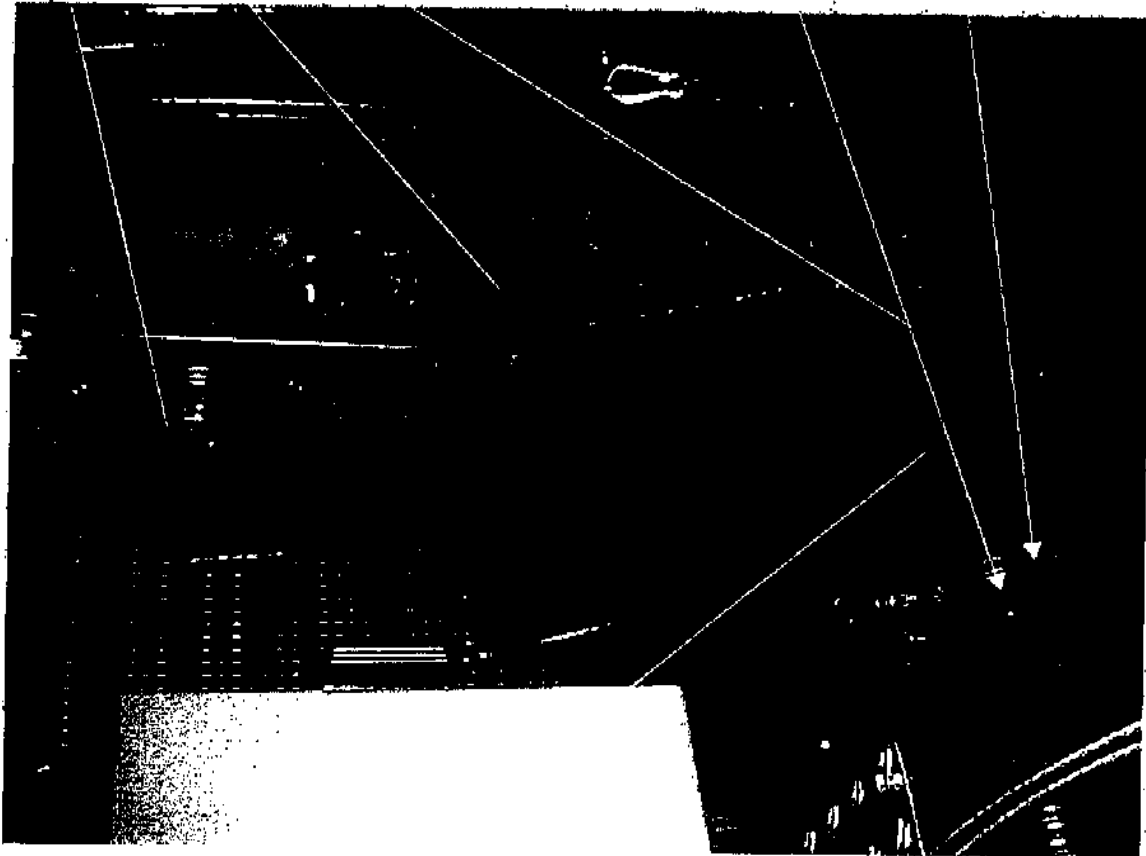
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RIG-4012.12

RIG-4008-2.H

RIG-4008.1-H

RIG-4008.3H



RIG-4008-H

0 1 2 3 4 5 6 7 9

### RIG WINCH UNIT

Company :USF EBE B.V.  
 Name :Controlbox hydraulic  
 winch RIG 4012

#### Particulars:

Supplier : USF EBE B.V.  
 Contact : A. van Houten  
 Telephone : +31(0)30-6018866  
 Telefax : +31(0)30-6018333  
 Email : info@usfebe.nl

#### REFERENCES

Order number :

#### DATA

Arch.number :PJ0001048  
 Calc.number :CL10122  
 Status :As Build

Start of project : 12.04.2000  
 Latest change : 06.10.2000 (RJO)

Highest page number : 12  
 Number of pages : 16

|       |            |                      |           |          |           |      |    |
|-------|------------|----------------------|-----------|----------|-----------|------|----|
| Sheet | 12.04.2000 | USF EBE B.V.         | Frontpage | Arch.no. | PJ0001048 | Page | 10 |
| Exp.  | RD         | Controlbox hydraulic |           | Draw.no. | 0001048   | Page | 10 |
| Print | 20.02.2001 |                      |           |          |           |      |    |

Gebruikt als  
 100% van de  
 10-10-2000-2000  
 10-10-2000-2000



0 1 2 3 4 5 6 7 8 9

# Table of contents

| Page | Summary                     | Additional field | Latest change | Engineer | X |
|------|-----------------------------|------------------|---------------|----------|---|
| 1    | Frontpage                   |                  | 14.04.2000    | RJO      |   |
| 2    | Contents                    |                  | 20.02.2001    | RJO      |   |
| 3    | Wiring dates                |                  | 19.04.2000    | RJO      |   |
| 4    | Panel layout                |                  | 24.05.2000    | RJO      |   |
| 4a   | Frontside                   |                  | 24.05.2000    | RJO      |   |
| 4b   | Mountingplate               |                  | 27.04.2000    | RJO      |   |
| 4c   | Swivelplate                 |                  | 24.05.2000    | RJO      |   |
| 4d   | Remote control              |                  | 01.05.2000    | RJO      |   |
| 5    | Main-Voltage                |                  | 20.02.2001    | RJO      |   |
| 6    | Main-voltage                |                  | 20.02.2001    | RJO      |   |
| 7    | Control-Voltage             |                  | 30.05.2000    | RJO      |   |
| 8    | Control-Voltage             |                  | 26.05.2000    | RJO      |   |
| 9    | Connector Electrical Engine |                  | 20.02.2001    | RJO      |   |
| 10   | Power connection            |                  | 20.02.2001    | RJO      |   |
| 11   | Remote connection           |                  | 20.02.2001    | RJO      |   |
| 12   | Detection                   |                  | 20.02.2001    | RJO      |   |

|       |            |                      |          |        |           |
|-------|------------|----------------------|----------|--------|-----------|
| Sheet | 12.04.2008 | USF EBE B.V.         | Contents | Number | PJ0001048 |
| Rev.  | RJO        | Controlbox hydraulic |          | Drawn: | 0001048   |
| Print | 20.02.2001 |                      |          |        |           |
|       |            |                      |          |        | Page 10   |



USF EBE B.V.  
Controlbox hydraulic

0 1 2 3 4 5 6 7 8 9

Wire Color:

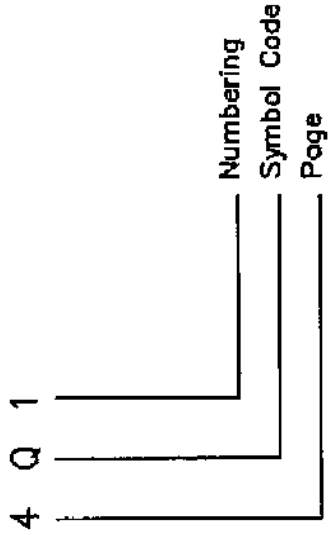
Main-Voltage

- L1 -Black
- L2 -Black
- L3 -Black
- PE/A -Yellow/Green

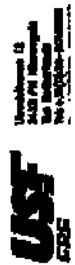
Control-Voltage

- 24VDC -White
- 0VDC -White

Example Codification:



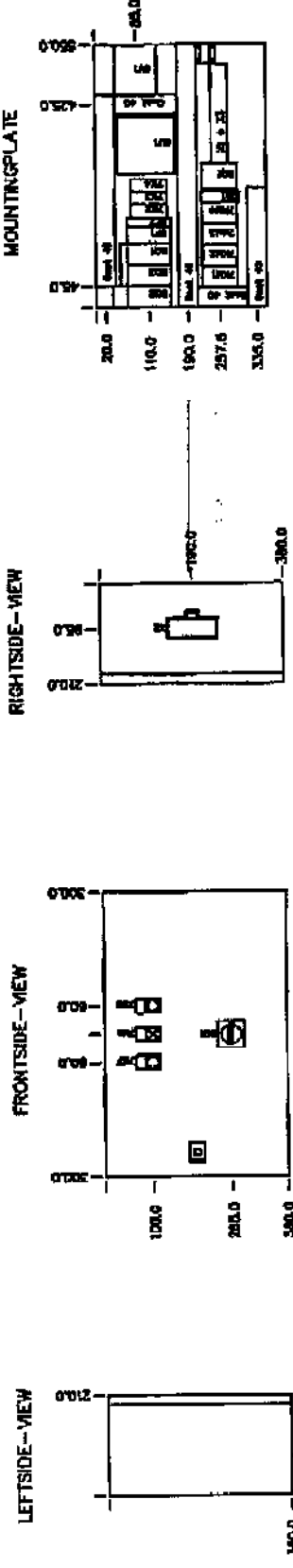
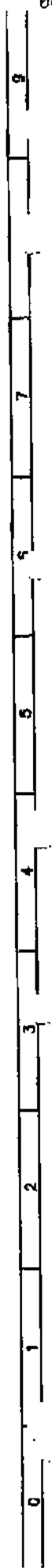
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|   | End   | RD         | Controlbox hydraulik |               | Drawing: 0001048  | Page |
|   | Print | 20.02.2001 |                      |               |                   | Page |



USF EBE 6 V.  
Controlbox hydraulik


Start: 12.04.2000  
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Print: 20.02.2001

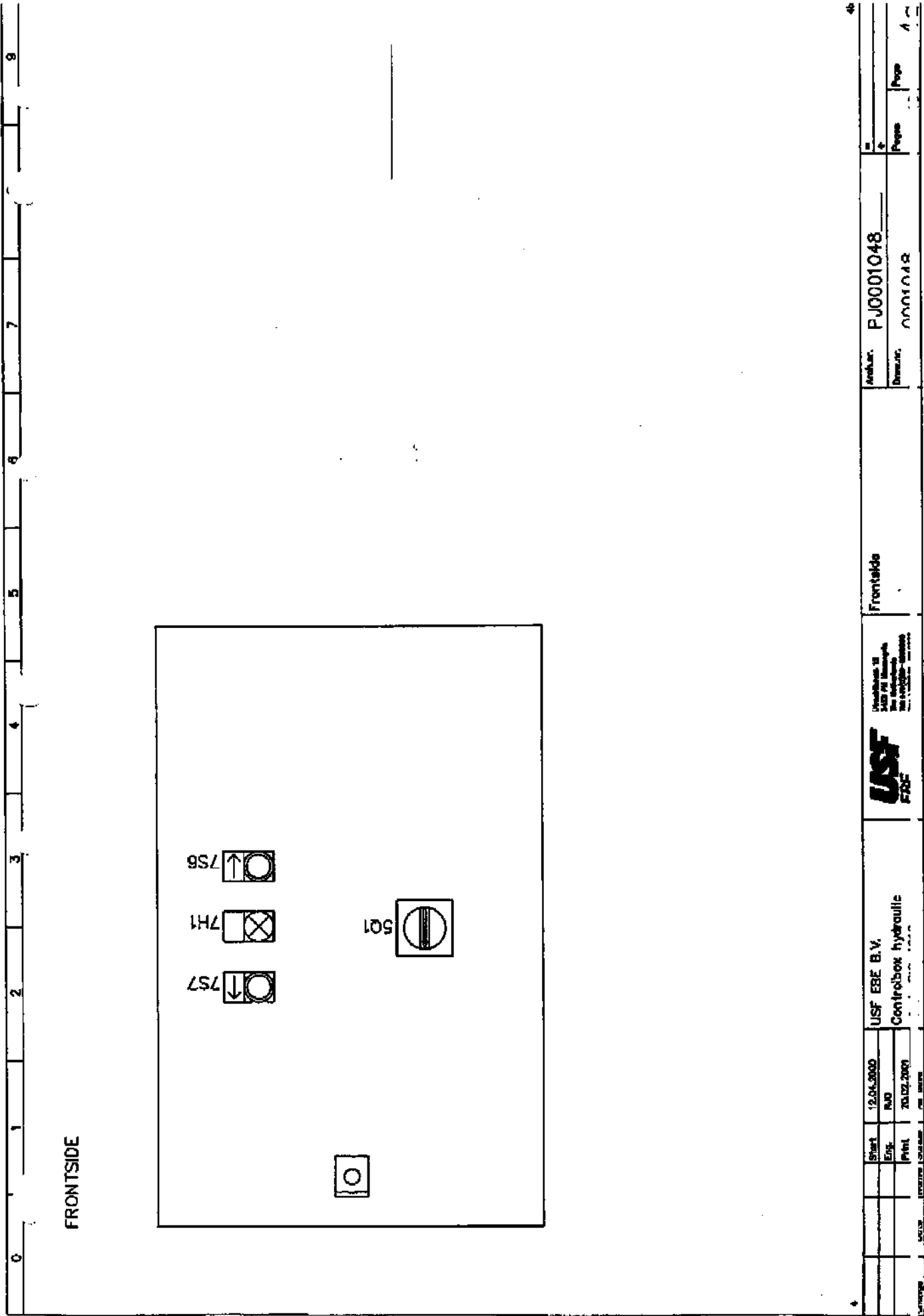
Archiv: P.0001048  
Drawing: 0001048



Enclosure

Make : Rittal  
 Type : AE 1038.600  
 Dim. : 360x600x210mm (WxDxH)  
 Color : RAL 7032

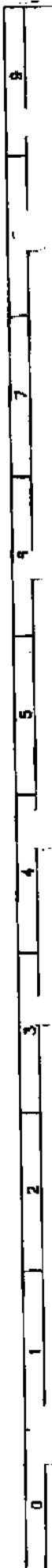
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| Start | 12.04.2008 | USF ERE B.V.         | Panel layout  | Architect | PJ001048 |
| Eng.  | RMD        | Controlbox hydraulic | <br><small>USF ERE is<br/>       a certified<br/>       ISO 9001<br/>       and ISO 14001<br/>       company</small> | Engineer  | 0001048  |
| Drawn | AN ROZEMER | PROJECT 11110        |   |           | Pages    |
| Check | As Build   |                      |   | Pages     | IR       |
| Date  |            |                      |   |           |          |



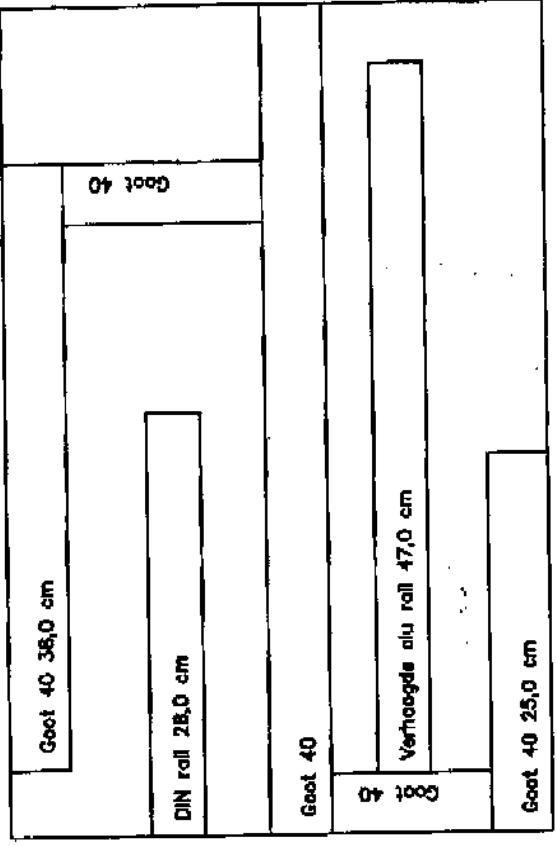
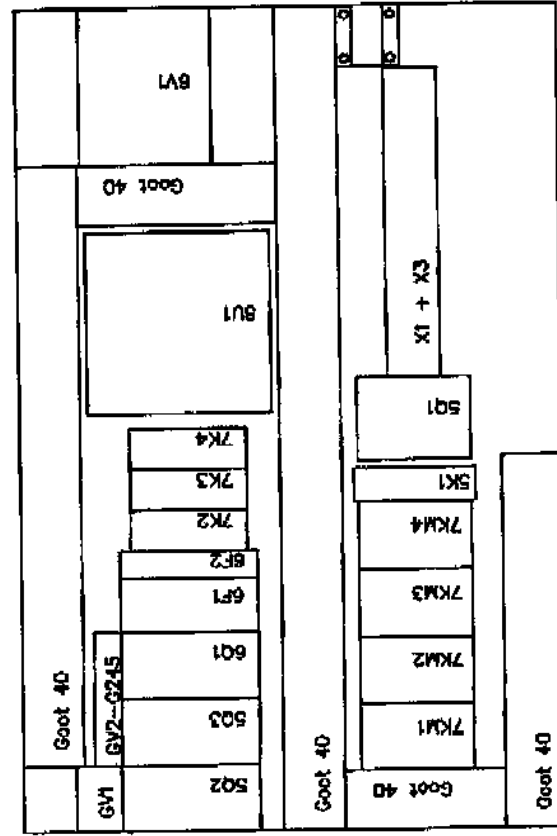
FRONTSIDE

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|-------|------------|----------------------|-----------|----------|-------------|------|----|
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| End   | RD         | Controlbox hydraulie | Frontside | Dimensie | 300x100x100 | Page | 14 |
| Print | 23.02.2007 |                      |           |          |             |      |    |





**MOUNTINGPLATE**



44

|         |            |
|---------|------------|
| Start   | 12.04.2000 |
| Exp.    | 31.03      |
| Revisie | 001-0001   |
| Doors   | As Built   |
| Change  |            |

USF EBE B.V.  
Controlbox hydraulie

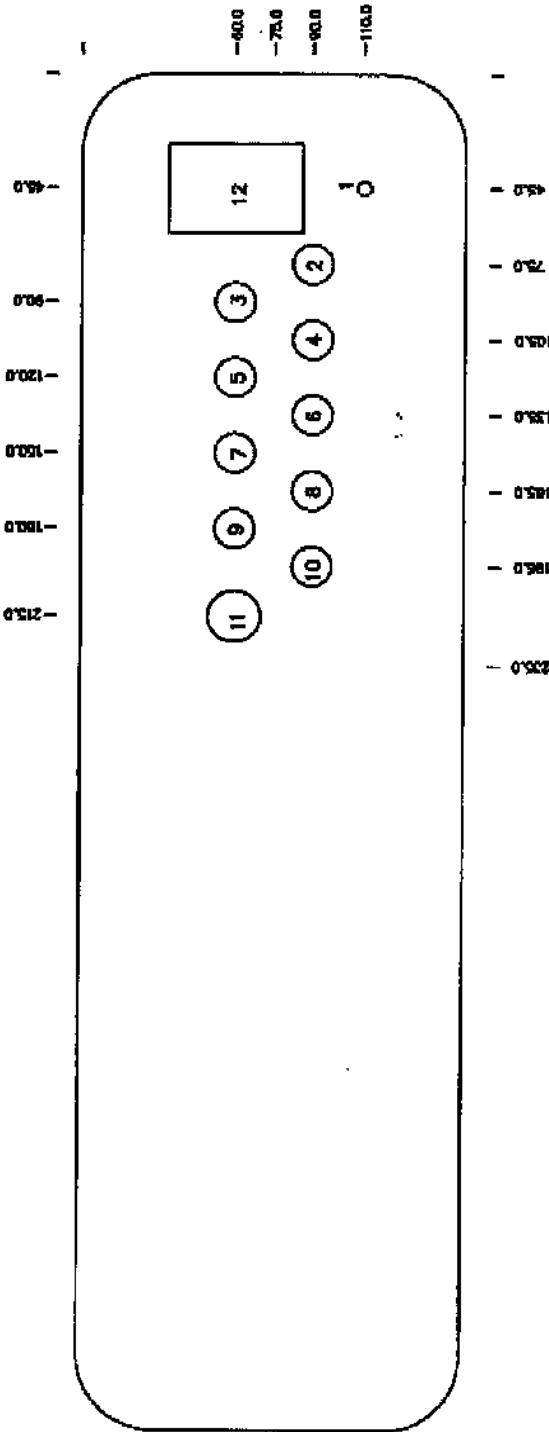


Mountingplate

Articel: P-J0001048  
Quantiteit: 0001048



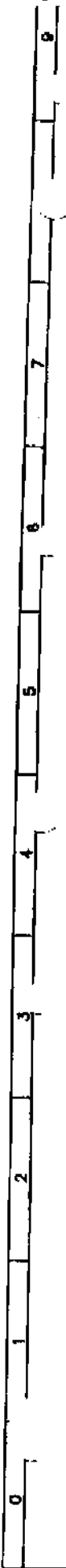
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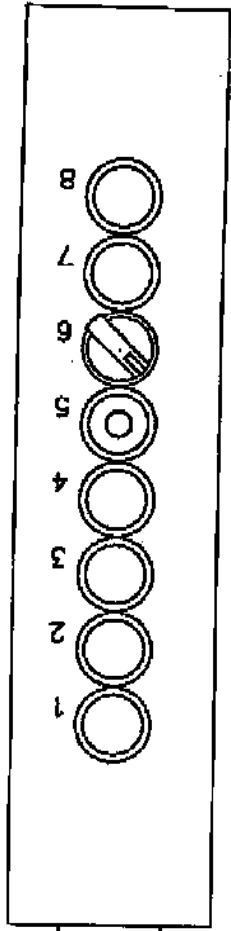
- 1: Bout M8
- 2: Wiertel PGS
- 3: Wiertel PGS
- 4: Wiertel PGS
- 5: Wiertel PGS
- 6: Wiertel PGS
- 7: Wiertel PGS
- 8: Wiertel PGS
- 9: Wiertel PGS
- 10: Wiertel PGS
- 11: Wiertel PGS16
- 12: Gat 35x52

|        |                       |
|--------|-----------------------|
| 4b     | 4d                    |
| Change | Date                  |
|        | Name                  |
|        | Status                |
|        | As Bldg               |
|        | 12.04.2000            |
|        | RD                    |
|        | USF ESE B.V.          |
|        | Controlbox Hydraulics |
|        | Winch RIG 4012        |
|        | Swivelplate           |
|        | Archief: PJD001048    |
|        | 0001048               |
|        | 18                    |
|        | 4C                    |



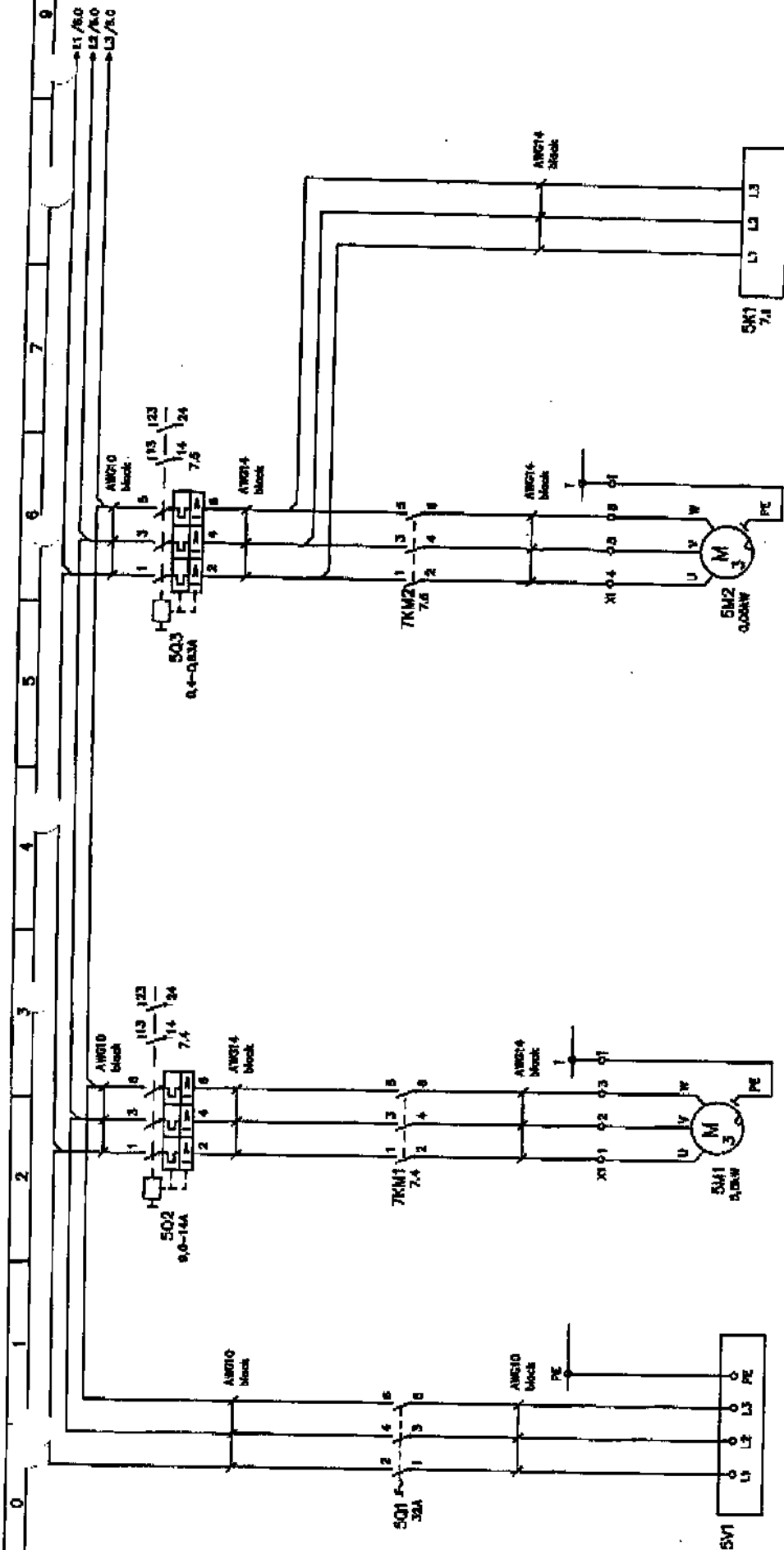


# REMOTE CONTROL



- 1: 8S1
  - 2: 8S2
  - 3: 7S3
  - 4: 7S4
  - 5: 8R1
  - 6: 7S9
  - 7: 7S1
  - 8: 7S2
- Up
  - Down
  - Right
  - Left
  - Max - Min
  - Auto mode
  - Start
  - Emergency switch

|          |            |                       |           |          |    |    |
|----------|------------|-----------------------|-----------|----------|----|----|
| Start    | 12/04/2008 | USF EBE B.V.          | Architect | PJ001048 | 18 | 4d |
| End      | N/A        | Controlbox hydraulics | Designer  |          |    |    |
| Print    | 20.02.2007 | Winch RIG 4012        |           |          |    |    |
| Change   | None       | As Built              |           |          |    |    |
| Date     |            |                       |           |          |    |    |
| Name     |            |                       |           |          |    |    |
| Status   |            |                       |           |          |    |    |
| As Built |            |                       |           |          |    |    |



Fosse Sequence

Cooler

Hydre

Supply

Main-Voltage

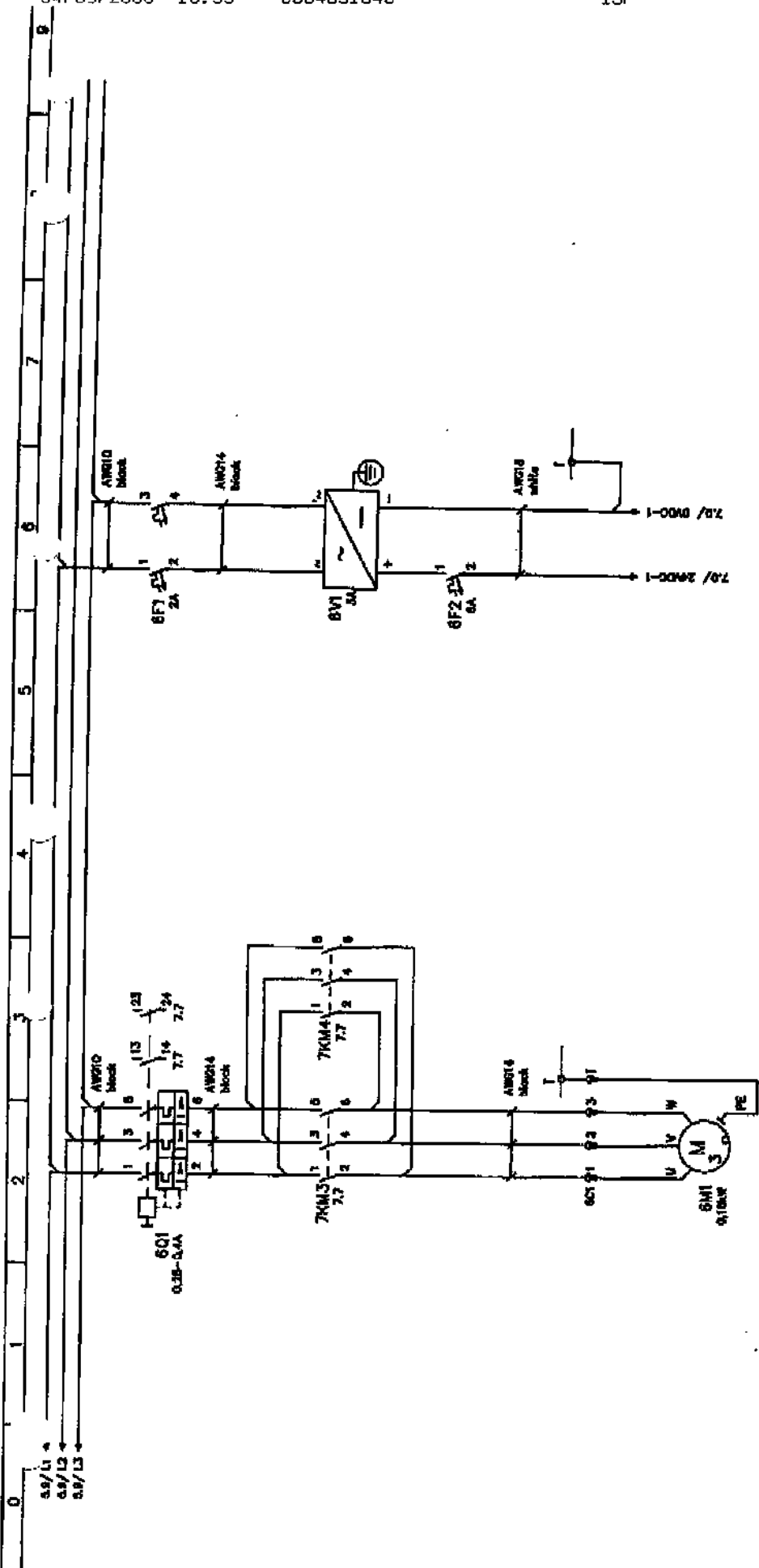
Verwijzen is  
 niet mogelijk  
 naar andere  
 pagina's



USF EBE B.V.  
 Controlbox hydraulic  
 Winch RIG 4012

|               |            |
|---------------|------------|
| Sign.         | 19.04.2000 |
| Exp.          | RAD        |
| Print.        | 20.02.2001 |
| Norm (Status) | AA Build   |

|        |      |               |          |
|--------|------|---------------|----------|
| Change | Date | Norm (Status) | AA Build |
|--------|------|---------------|----------|



Control-Voltage  
24 VDC

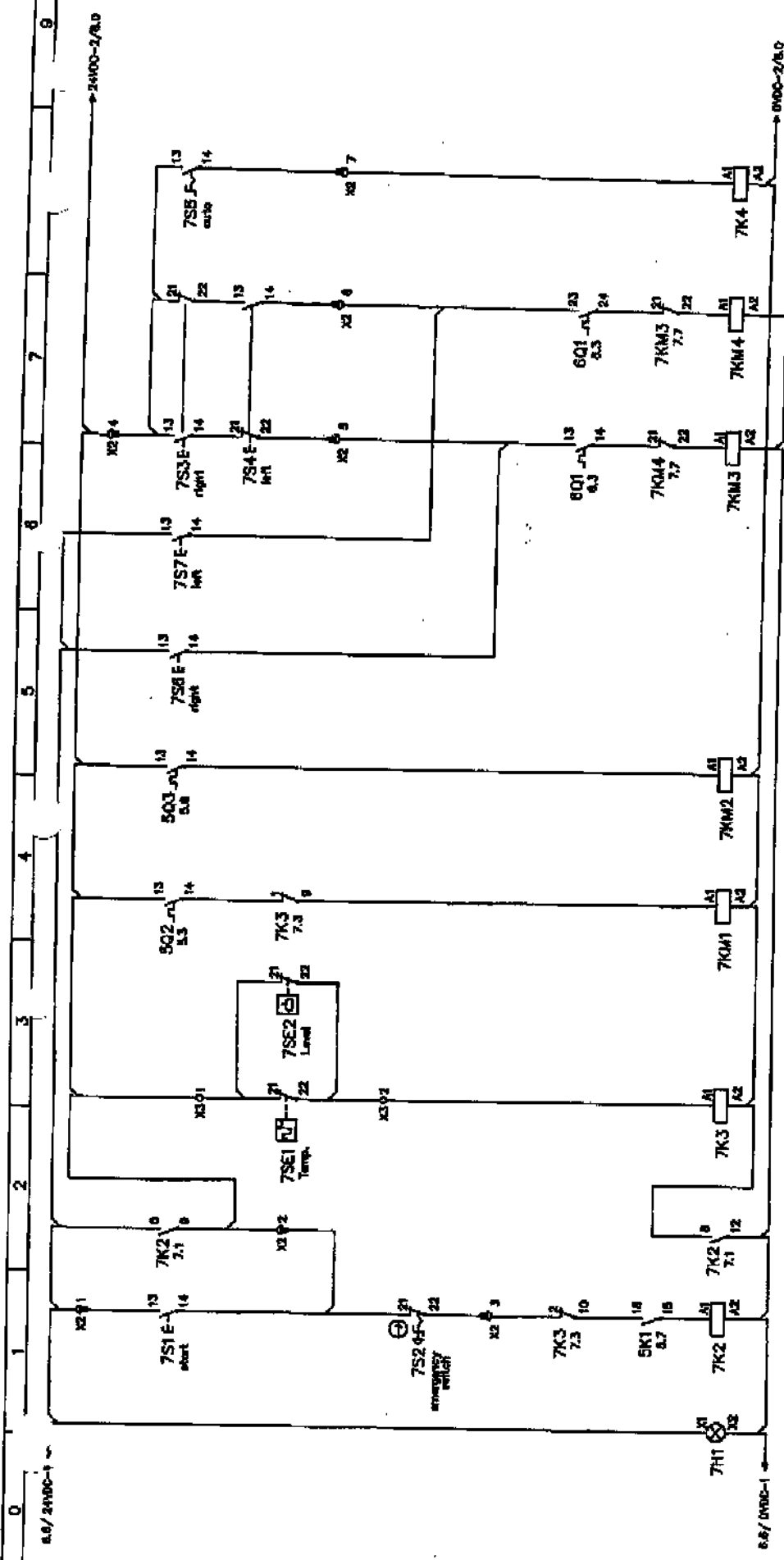
Electrical Engine  
Left - Right

|       |            |           |           |
|-------|------------|-----------|-----------|
| Sheet | 12.04.2008 | Author    | PJ0001048 |
| Eng.  | RJD        | Structure |           |
| Print | 20.02.2009 | Page      | 16        |
| Date  | As Build   | Page      | 16        |
| Chart |            | Page      | 16        |



USF EBE S.V.  
Controlbox hydraulic  
Winch RIG 4012

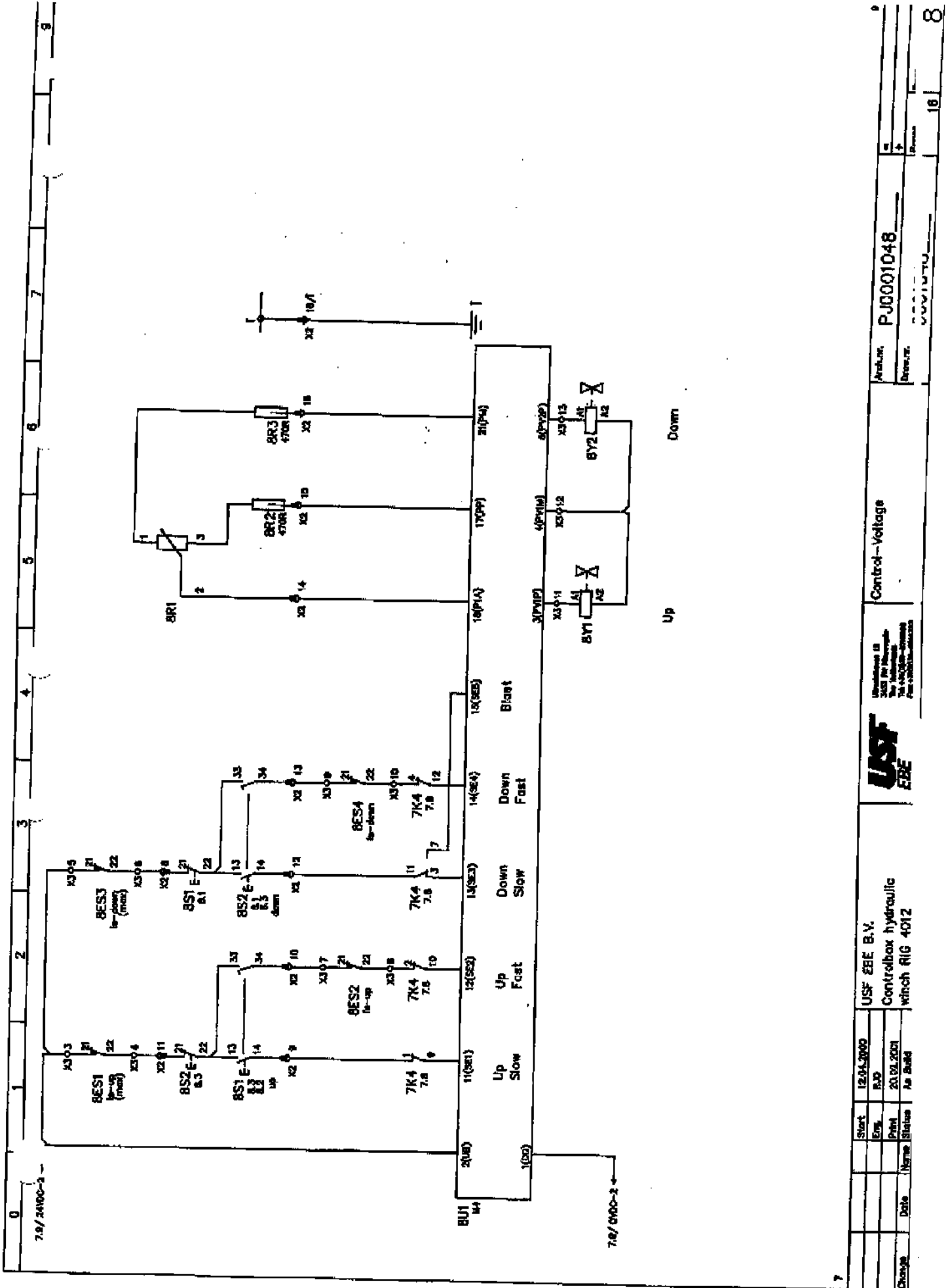
Version 10  
2008-04-12  
RJD  
2009-02-20  
As Build



| Control Voltage ON | Release             | > Temp.<br>< Level  | Hydro                         | Cooler                        | Electrical Engine Right   | Electrical Engine Left  | Automatic                        |
|--------------------|---------------------|---------------------|-------------------------------|-------------------------------|---|---|----------------------------------|
|                    | 8-8 7.2<br>8-12 7.2 | 1-8 7.4<br>2-10 7.1 | 1-2 8.2<br>3-4 8.2<br>5-6 8.3 | 1-2 8.6<br>3-4 8.6<br>5-6 8.6 | 1-2 8.2<br>3-4 8.2<br>5-6 8.3<br>7-8 8.3<br>9-10 8.3<br>11-12 8.3 | 1-3 8.3<br>3-4 8.3<br>5-6 8.3<br>7-8 8.3<br>9-10 8.3<br>11-12 8.3 | 1-8 8.1<br>9-10 8.2<br>11-12 8.3 |

USF EBE B.V.  
Controlbox hydraulic  
Winch RIG 4-012

|        |            |                      |                 |          |          |          |       |
|--------|------------|----------------------|-----------------|----------|----------|----------|-------|
| Sheet  | 12.01.2000 | USF EBE B.V.         | Control-Voltage | Archives | PJ001048 | Revision | 16    |
| Exh.   | R/D        | Controlbox hydraulic |                 |          |          |          |       |
| Print  | 20.02.2001 | Winch RIG 4-012      |                 |          |          |          |       |
| Change | Date       | Name                 | Etat            | Revis    | Revis    | Revis    | Revis |



USF EBE B.V.  
Controlbox hydraulic  
winch RIG 4012

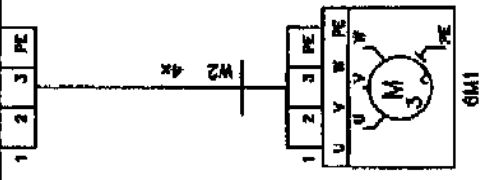
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| Rev.  | R.05       |
| Print | 23.09.2001 |
| Name  | As Build   |
| Date  |            |

Control-Voltage

Project: PJD001048

Author: [blank]  
Reviewer: [blank]

|                     |         |         |         |    |   |   |   |   |   |
|---------------------|---------|---------|---------|----|---|---|---|---|---|
| 0                   | 1       | 2       | 3       | 4  | 5 | 6 | 7 | 8 | 9 |
| 6C1                 |         |         |         |    |   |   |   |   |   |
| Internal connection | TRAIL 2 | TRAIL 4 | TRAIL 6 | 1  |   |   |   |   |   |
| Bridge              |         |         |         |    |   |   |   |   |   |
| TermIncl            | 1       | 2       | 3       | PE |   |   |   |   |   |

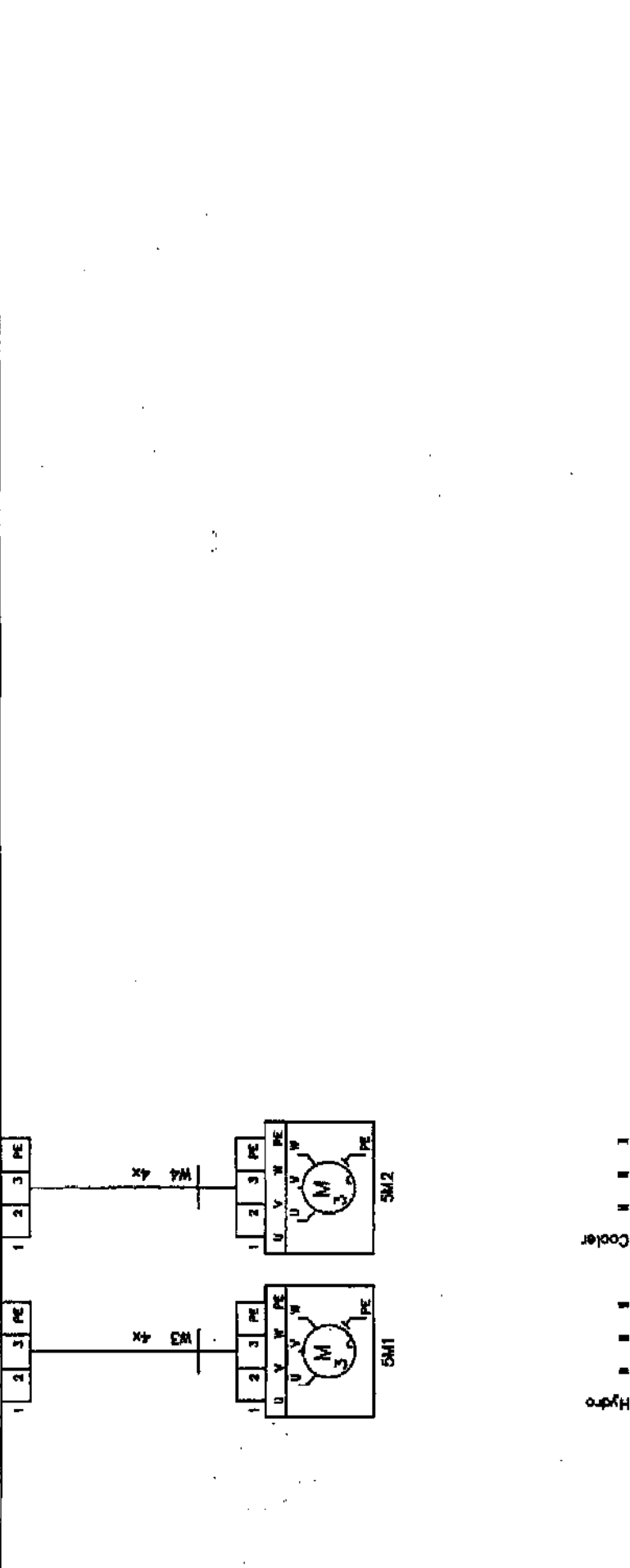


Electrical Engine  
Left - Right  
1 1 1 1

|       |            |                      |                   |           |           |           |
|-------|------------|----------------------|-------------------|-----------|-----------|-----------|
| Start | 12.04.2000 | USF EBE B.V.         | Contractor        | PJ0001048 | Architect | PJ0001048 |
| End   | P.U.D      | Controlbox hydraulic | Electrical Engine |           | Director  | 0001048   |
| Part  | 20.02.2001 | winch RIG 4312       |                   |           |           |           |
| Page  | 18         |                      |                   |           |           |           |

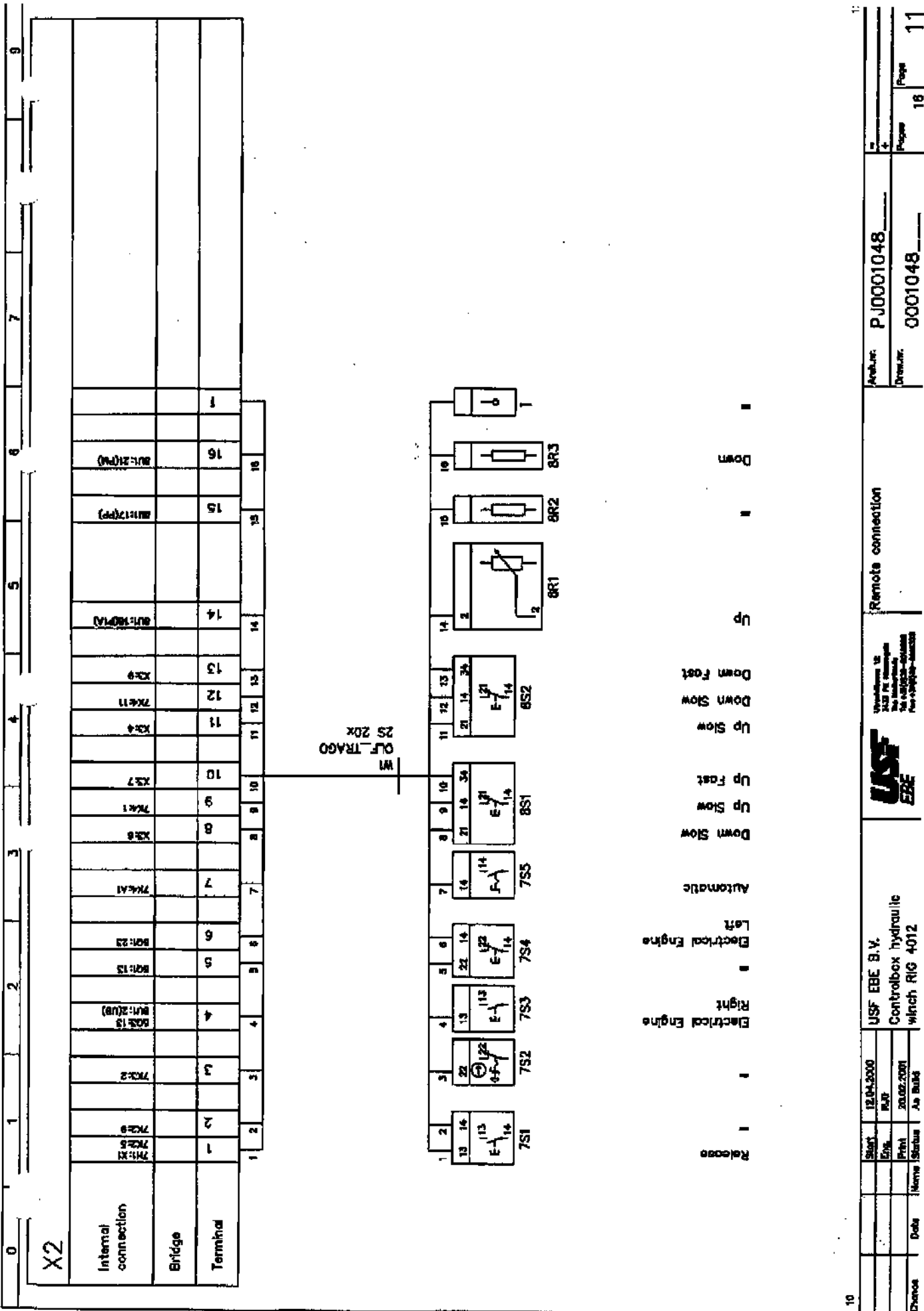
0 1 2 3 4 5 6 7 8 9

|                     |         |         |         |         |         |         |         |         |          |    |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----|
| X1                  |         |         |         |         |         |         |         |         |          |    |
| Internal connection | POINT:2 | POINT:3 | POINT:4 | POINT:5 | POINT:6 | POINT:7 | POINT:8 | POINT:9 | POINT:10 |    |
| Bridge              |         |         |         |         |         |         |         |         |          |    |
| Terminal            | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9        | 10 |



|       |            |  |                  |  |         |
|-------|------------|--|------------------|--|---------|
| Start | 12/04/2008 | USF EBE B.V.                           | Power connection | Archibut: P.J0001048<br>Draaier: 0001048 | Page 18 |
| Exl   | (R.O)      | Controlbox hydraulic<br>Winch RIG 4012 |                  |  |         |
| Print | 20.02.2001 |  |                  |  |         |

USF EBE

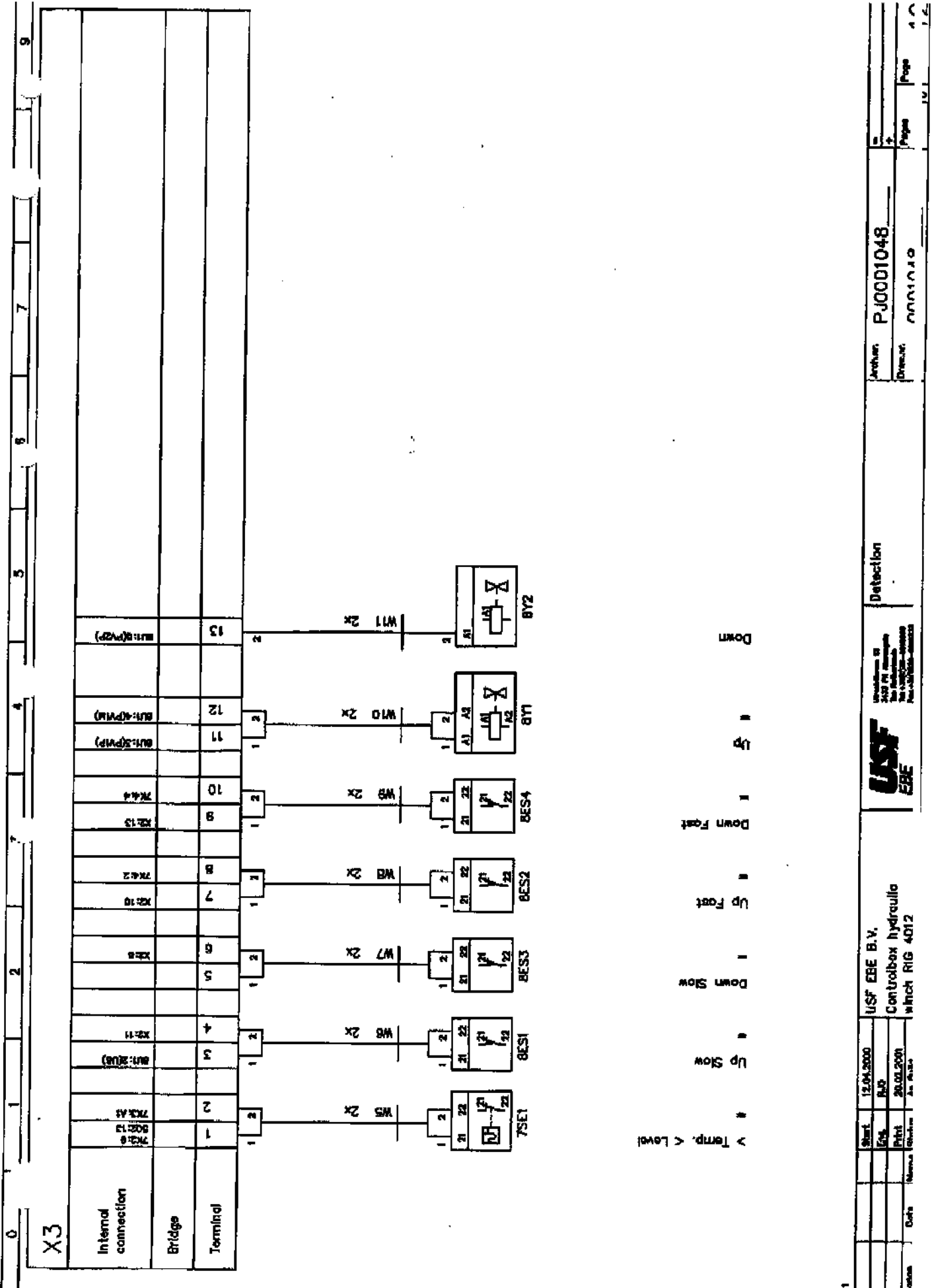


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| Page:   | 16        |
| Page:   | 11        |



|                                     |                   |
|-------------------------------------|-------------------|
| Start                               | 12.04.2000        |
| Stop                                | 14.07             |
| Print                               | 20.02.2001        |
| Date                                | As Built          |
| USF EBE B.V.                        | Remote connection |
| Controlbox hydraulic winch RIG 4012 |                   |



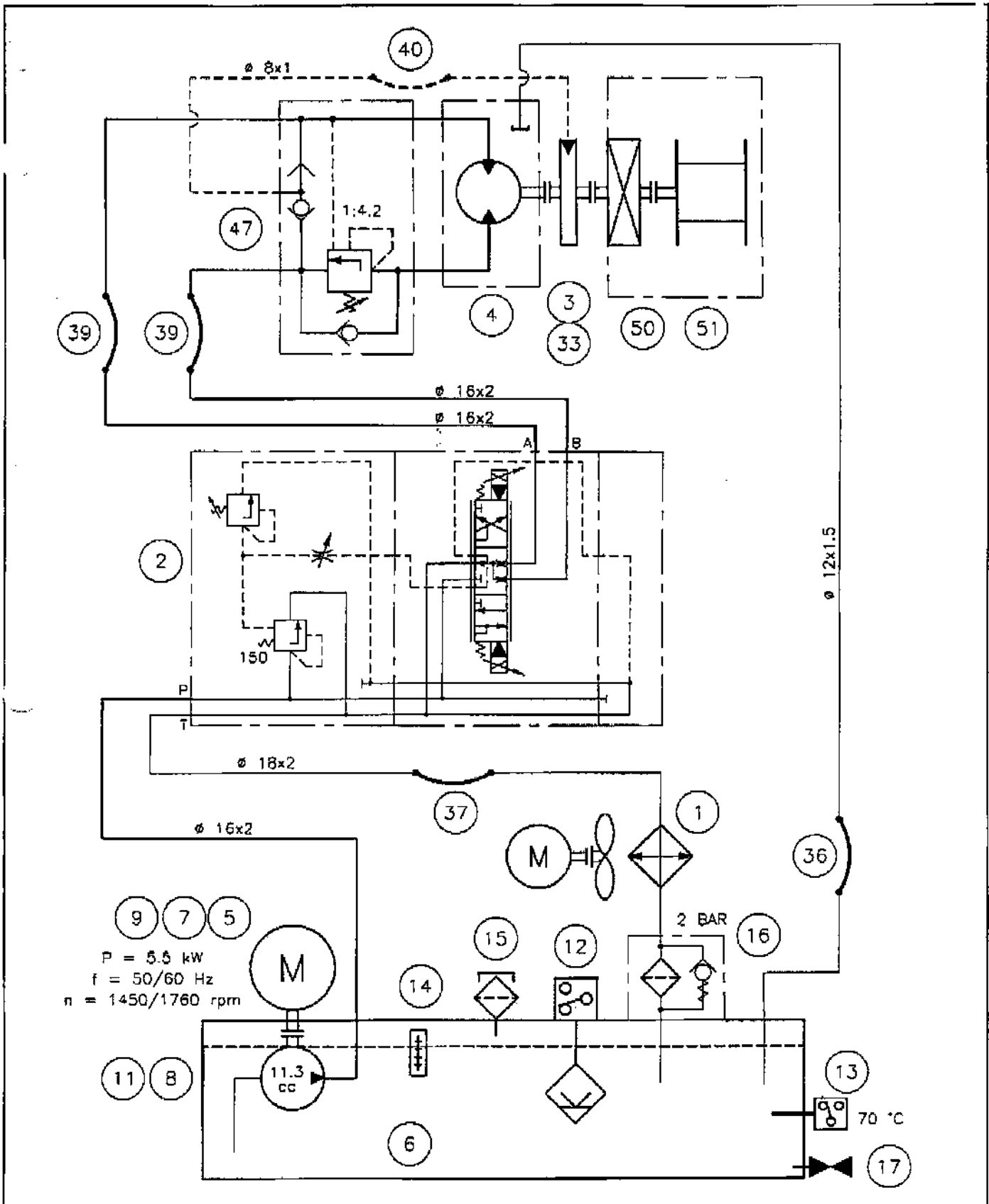


11

|         |            |                       |
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| End     | 1.10       | Controlbox hydraulica |
| Print   | 20.03.2008 | Winch RIG 4012        |
| Checked |            |                       |



|         |           |
|---------|-----------|
| Author  | PJ0001048 |
| Drawing | 0001048   |
| Page    | 1         |
| Page    | 2         |
| Page    | 3         |
| Page    | 4         |
| Page    | 5         |
| Page    | 6         |
| Page    | 7         |
| Page    | 8         |
| Page    | 9         |
| Page    | 10        |
| Page    | 11        |
| Page    | 12        |



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|             |            |
|-------------|------------|
| SCALE:      | DATE:      |
| DRAWN: RvdG | 14-02-2001 |
| CHKD:       |            |
| CHANGE:     | NAME DATE  |
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**HYDRAULIC CIRCUIT**  
**WINCH RIG 4012 (SWL 716 KG)**

|  |                              |
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| ART4 TECHNICAL SYSTEMS B.V.<br>BECKERINGHSTRAAT 55<br>3782 EV SOEST, THE NETHERLANDS<br>TEL: +31 (0)35 5822468 | DRAWINGNR.<br><b>RIG4012</b> |
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