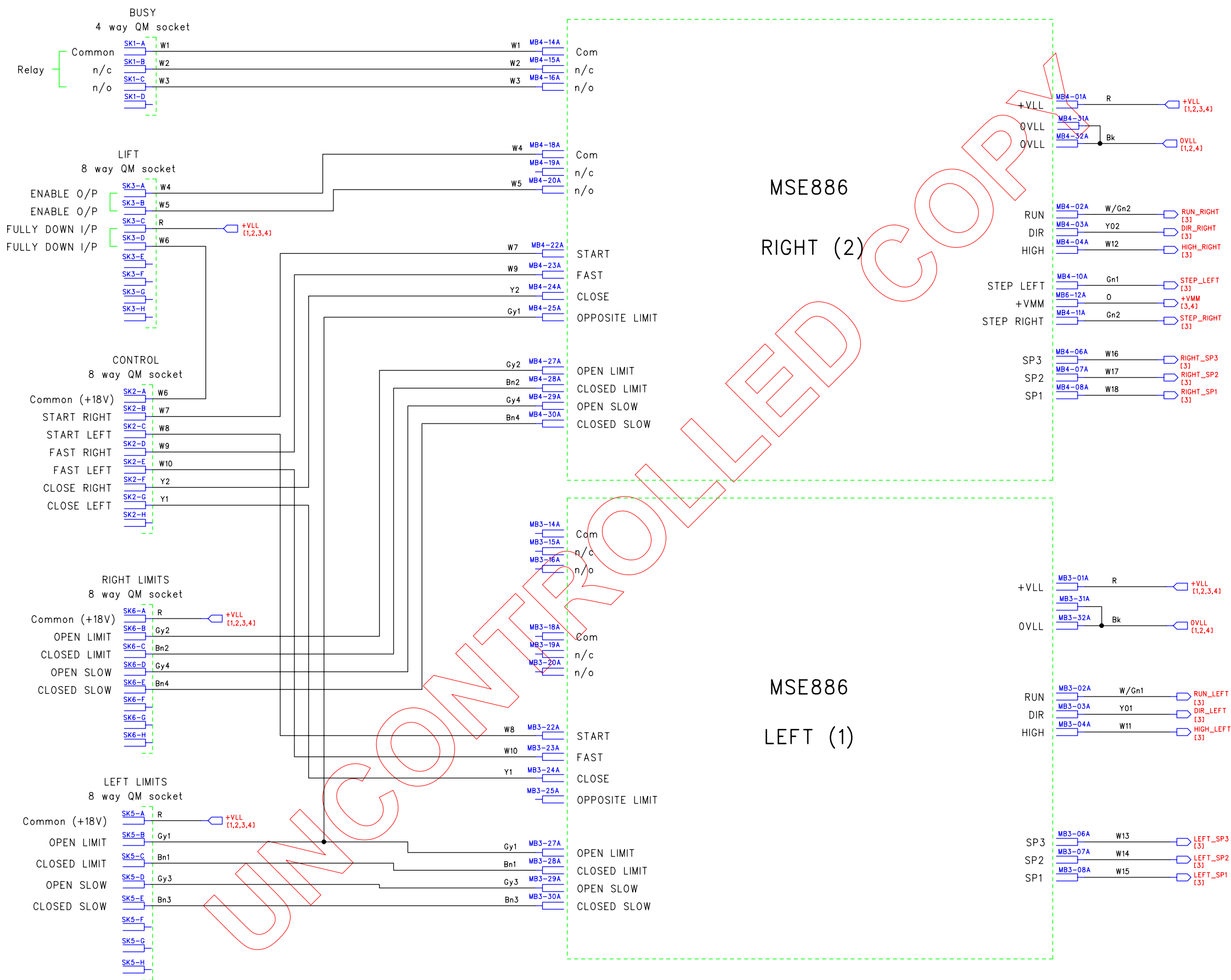


| RevNo | Revision note | Date   | By  | Checked |
|-------|---------------|--------|-----|---------|
| B     | DCN 313       | 9-6-03 | SPH | D.D.    |
|       |               |        |     |         |



All wire size 20AWG unless stated otherwise

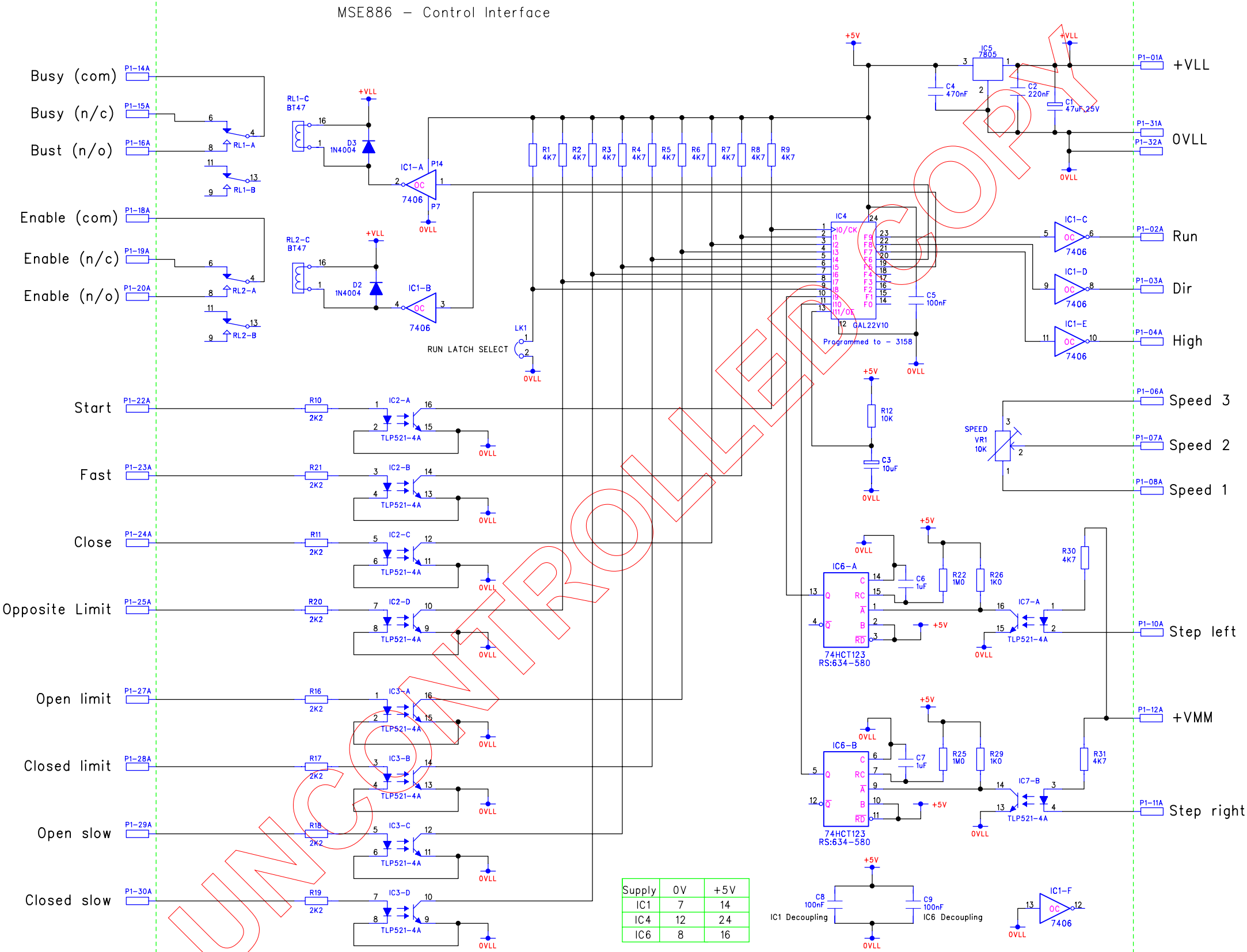


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|             |            |           |                |                                                                |         |
|-------------|------------|-----------|----------------|----------------------------------------------------------------|---------|
| Pcb Dwg # = |            | Scale     | Nts            | Title                                                          |         |
| Drawn       | MD Hatch   | Date      | Sheet          | SM9509-Mk2, Euroball<br>Dual Axis Stepper Drive<br>Connections |         |
| Checked     | D. Dollery | 14/5/2003 | Next Sheet     |                                                                |         |
|             |            | 16-5-2003 | Drawing Number | 3154                                                           |         |
|             |            |           |                | A2                                                             | Issue A |

| RevNo | Revision note | Date   | By  | Checked |
|-------|---------------|--------|-----|---------|
| B     | DCN 313       | 9-6-03 | SPH | D.D.    |

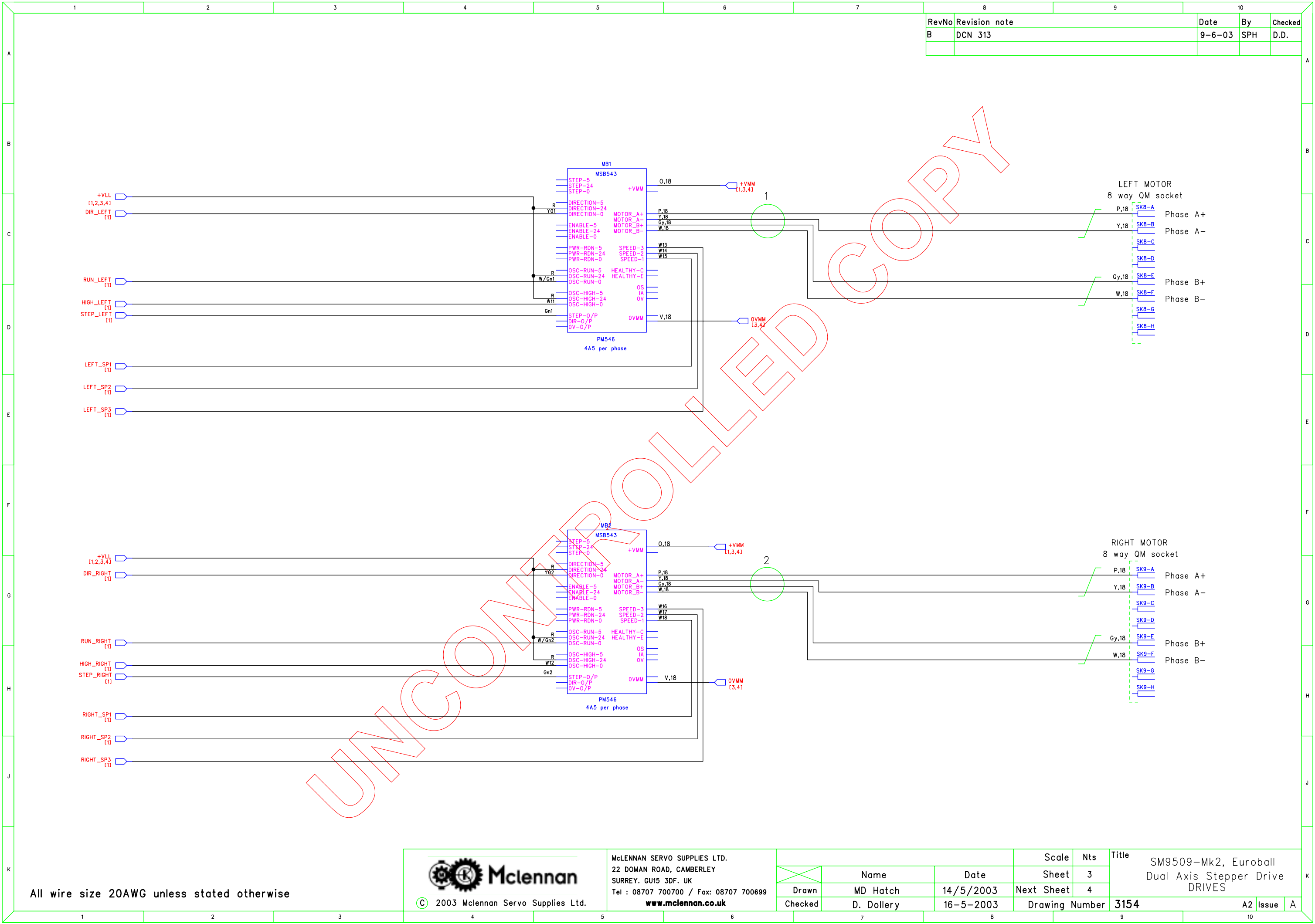


| Supply | 0V | +5V |
|--------|----|-----|
| IC1    | 7  | 14  |
| IC4    | 12 | 24  |
| IC6    | 8  | 16  |



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| Name           | Date      | Scale      | Nts | Title                                                            |            |
|----------------|-----------|------------|-----|------------------------------------------------------------------|------------|
| MD Hatch       | 14/5/2003 | Sheet      | 2   |                                                                  |            |
| D. Dollery     | 16-5-2003 | Next Sheet | 3   | SM9509-Mk2, Euroball<br>Dual Axis Stepper Drive<br>CONTROL_BOARD |            |
| Drawing Number |           |            |     | 3154                                                             | A2 Issue A |



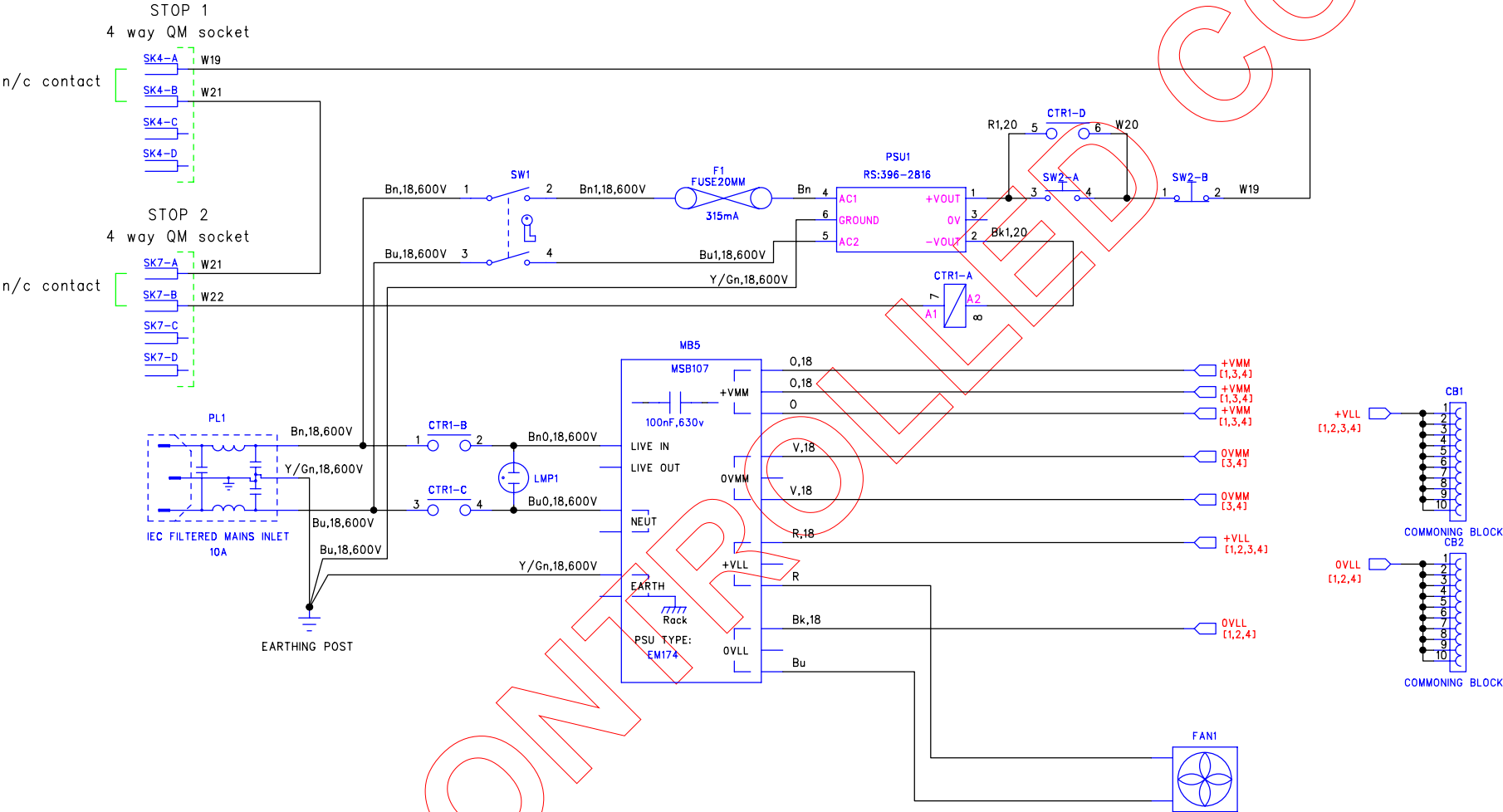
All wire size 20AWG unless stated otherwise



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|         |            |           |                |      |                         |
|---------|------------|-----------|----------------|------|-------------------------|
|         | Name       | Date      | Scale          | Nts  | Title                   |
| Drawn   | MD Hatch   | 14/5/2003 | Sheet          | 3    | SM9509-Mk2, Euroball    |
| Checked | D. Dollery | 16-5-2003 | Next Sheet     | 4    | Dual Axis Stepper Drive |
|         |            |           | Drawing Number | 3154 | DRIVES                  |

| RevNo | Revision note | Date   | By  | Checked |
|-------|---------------|--------|-----|---------|
| B     | DCN 313       | 9-6-03 | SPH | D.D.    |
|       |               |        |     |         |



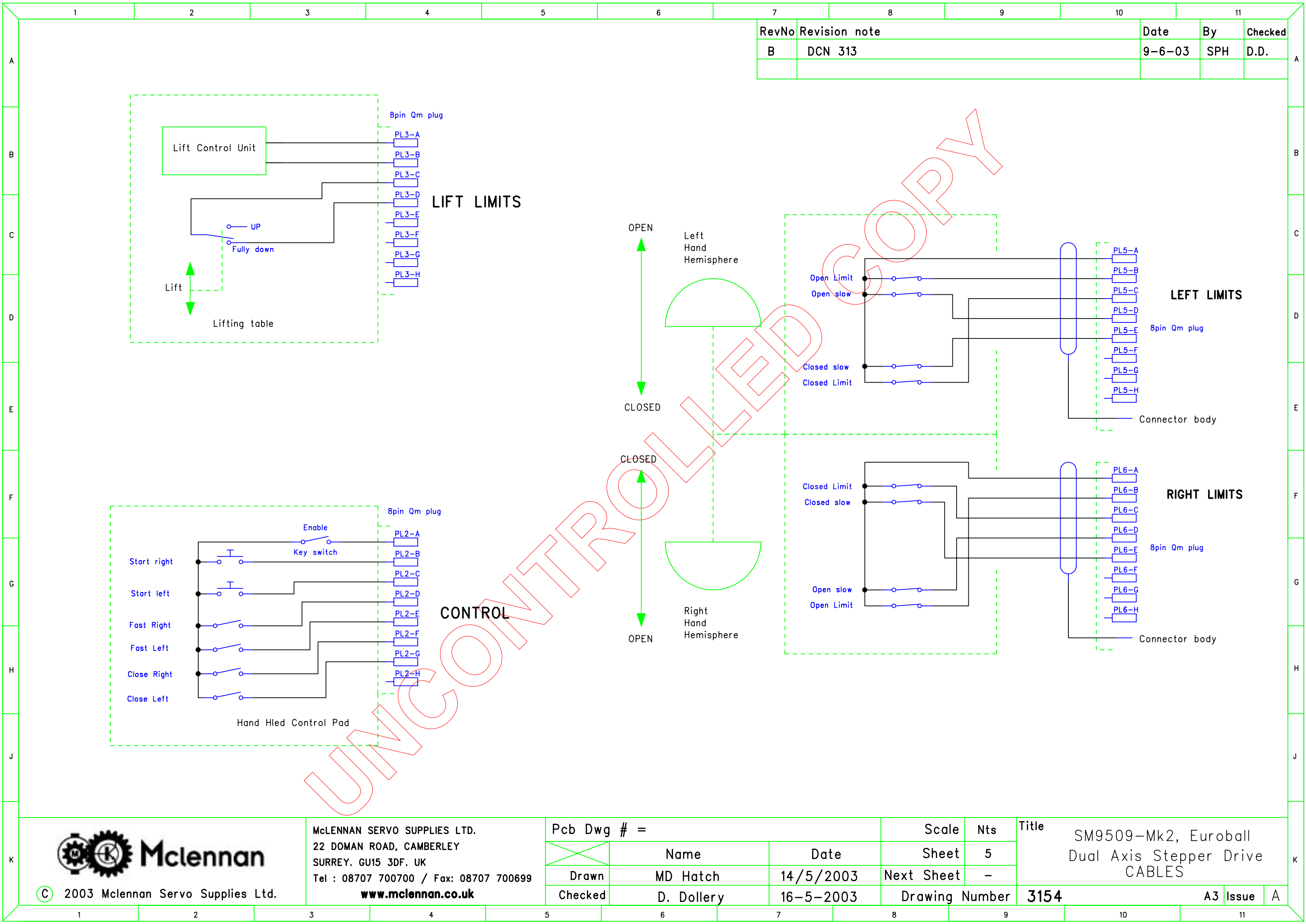
NOTES:  
LMP1: FEC:140-180  
CTR1: FEC:288-366  
PSU1: RS:396-2816  
SW1: FEC:175-516 + FEC:175-451 + FEC:175-459  
SW2: FEC:175-469 + FEC:175-475

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| Name       | Date      | Scale          | Nts  | Title                                                  |
|------------|-----------|----------------|------|--------------------------------------------------------|
| MD Hatch   | 14/5/2003 | Sheet          | 4    | SM9509-Mk2, Euroball<br>Dual Axis Stepper Drive<br>PSU |
| D. Dollery | 16-5-2003 | Next Sheet     | 5    |                                                        |
|            |           | Drawing Number | 3154 |                                                        |
|            |           | A2 Issue       | A    |                                                        |



| RevNo | Revision note | Date   | By  | Checked |
|-------|---------------|--------|-----|---------|
| B     | DCN 313       | 9-6-03 | SPH | D.D.    |



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Pcb Dwg # =

|         | Name       | Date      |
|---------|------------|-----------|
| Drawn   | MD Hatch   | 14/5/2003 |
| Checked | D. Dollery | 16-5-2003 |

| Scale          | Nts  |
|----------------|------|
| Sheet          | 5    |
| Next Sheet     | -    |
| Drawing Number | 3154 |

Title  
SM9509-Mk2, Euroball  
Dual Axis Stepper Drive  
CABLES

A3 Issue A