

GOUDSMIT

MAGNETICS

Customer name: -
Customer number: -
Country: The Netherlands
Language: English

Project Name: -
Project Number: -
Product: SWITCH BOX CR TWIN ROTOR EX
Item number: A240172

| | |
|-------------------------|--------------------------|
| Designer: MV | Supply Voltage: 400 VAC |
| Design date: 27-05-2020 | Nominal Power: 1 kW |
| Revision number: E | Max. supply Current: 5 A |
| Status: Released | Control Voltage: 230 VAC |

Total pages: 011

Prev. sheet:

Next Sheet: 002

Designer: MV
Design date: 27-05-2020
Rev. nr.: E
Status: Released

Project name : -
Project number : -
Customer: -
Customer number: -



Product: SWITCH BOX CR TWIN ROTOR EX
Item number: A240172
Doc. number: A240172_Page-001.dwg

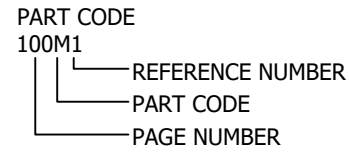
Drawing descr.: Front page

Sheet: 001
Inst.:
Loc.:

General specifications

| PAGE NUMBERING | |
|----------------|------------------------|
| 1 | Front page |
| 2 | Project specifications |
| 10 | Drawing list |
| 100 | Main circuit |
| 150 | Power supplies |
| 200 | Control circuit |
| 300 | - |
| 400 | PLC overview |
| 500 | PLC I/O |
| 600 | - |
| 700 | - |
| 800 | Spare connections |
| 900 | Bill of material |
| 910 | Components list |
| 950 | Terminal plan |
| | |
| | |

| TERMINAL NUMBERING | |
|--------------------|------------------------|
| X0 | Main supply |
| X1 | Main power |
| X2 | Control voltage 230VAC |
| X3 | Control voltage 24Vac |
| X4 | Control voltage 24Vdc |
| X5 | Analog signals |
| X6 | External supply |
| X7 | EEx i |
| X8 | ? |
| X9 | ? |

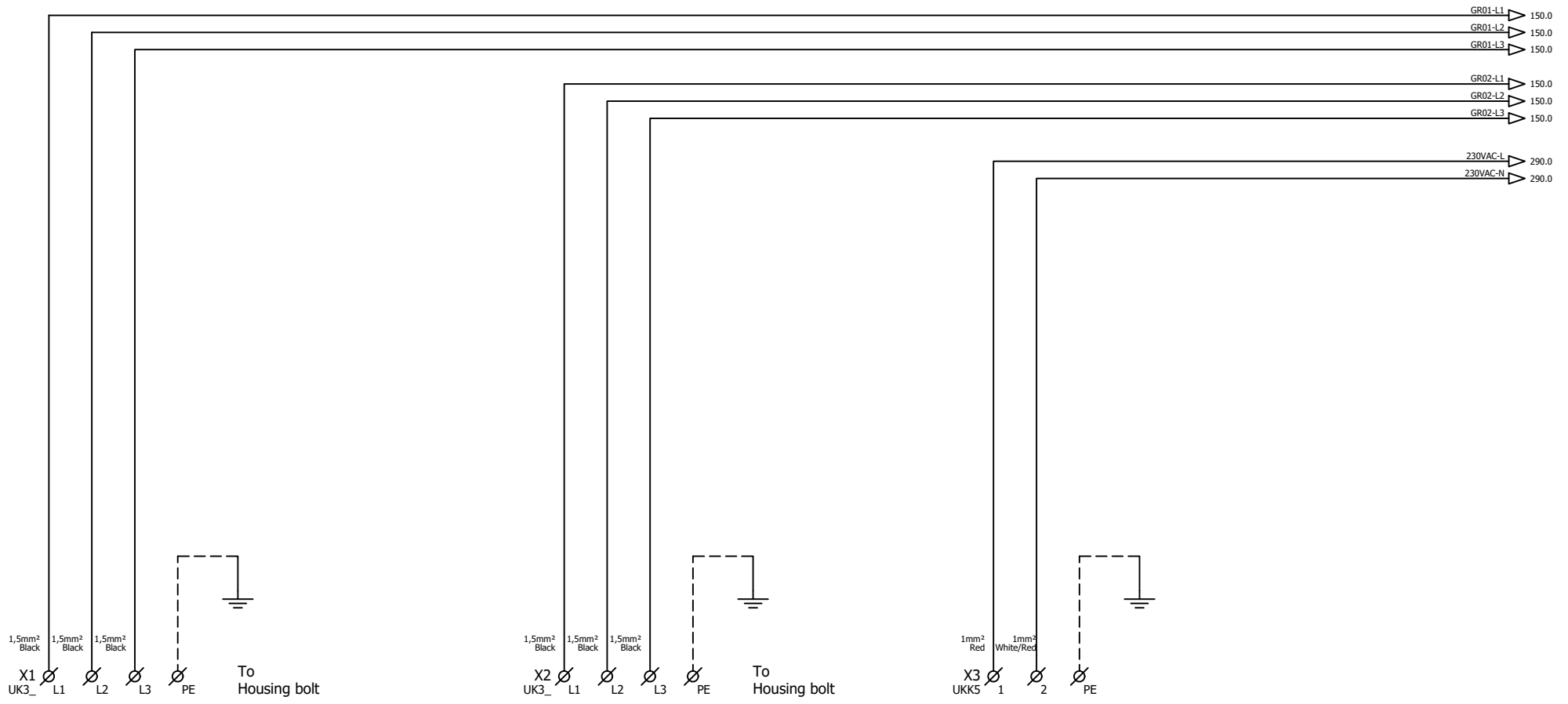


| COLOR CODE INTERNAL WIRING | | |
|---|-------------|----------------|
| Main current 400/230V | Phase | Black |
| | Neutral | Lightblue |
| | Earth | Yellow/Green |
| Control voltage 230Vac | Phase | Red |
| | Switch wire | Red |
| | Neutral | Red/White |
| Control voltage 24Vac | Phase (L) | Yellow |
| | Switch wire | Yellow |
| | Neutral (N) | Yellow |
| Control voltage 24Vdc | Phase (+) | Darkblue |
| | Switch wire | Darkblue |
| | Neutral (-) | Darkblue/White |
| Measurement | | Grey |
| External supply (Potential free contacts) | | Orange |
| EEx i | | Blue |

Drawing list

| Installation | Location | Page | Description 1 | Description 2 | Description 3 |
|--------------|----------|------|--------------------------|---------------|---------------|
| | | 001 | Front page | | |
| | | 002 | Project specification | | |
| | | 010 | Drawing list | | |
| | | 100 | Main Switch | | |
| | | 150 | Main circuit | | |
| | | 290 | Control circuit External | | |
| | | 800 | Spare connections | | |
| | | 900 | Bill of material | | |
| | | 910 | Components list | | |
| | | 950 | Terminal plan | | |
| | | 990 | Text plate | | |

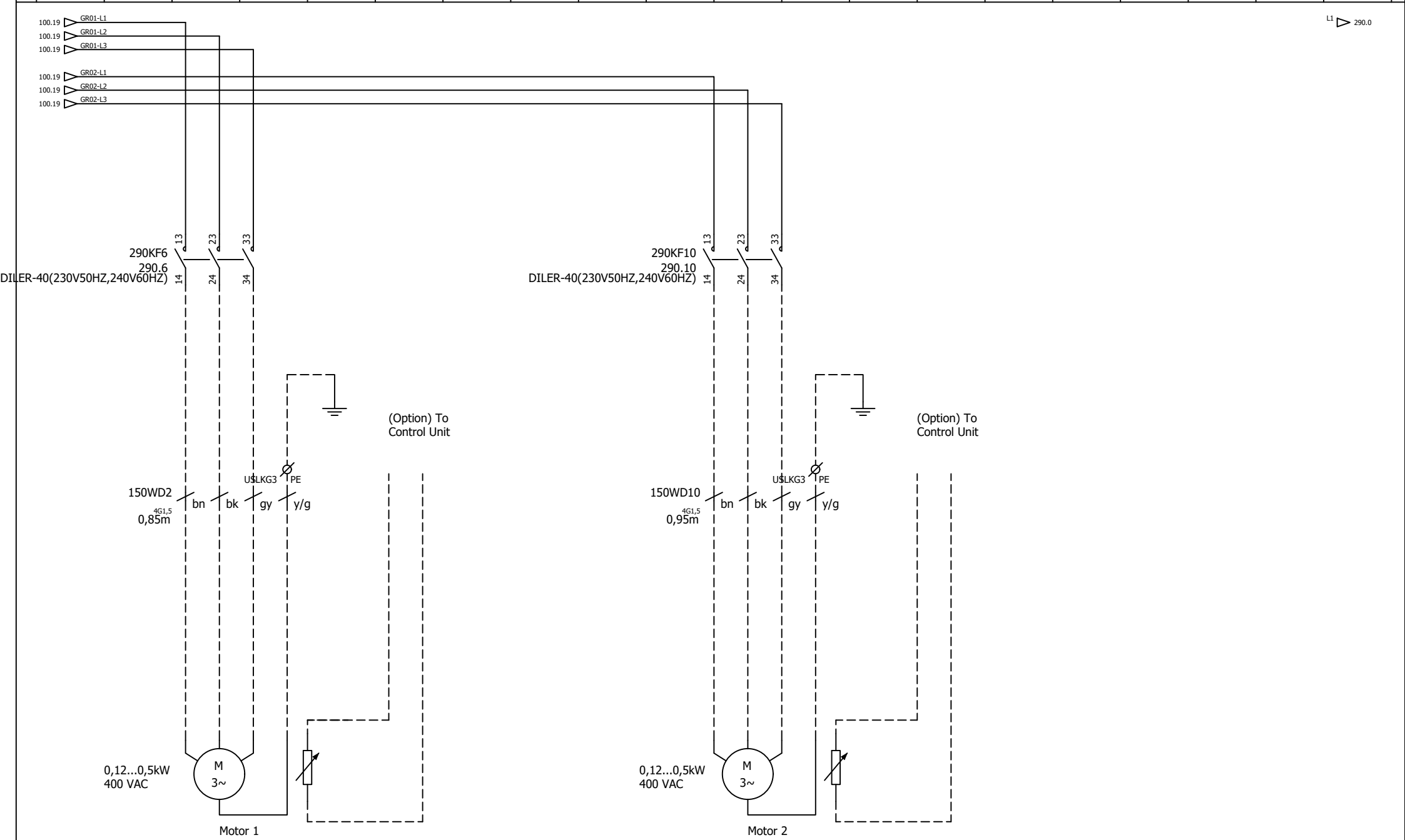




Power Supply
3x400V 50/60Hz
Fuse max. 16A

Power Supply
3x400V 50/60Hz
Fuse max. 16A

Power Supply
230V 50/60Hz
Fuse max. 2A



Prev. sheet: 100

Next Sheet: 290

Designer: MV
 Design date: 27-05-2020
 Rev. nr.: E
 Status: Released

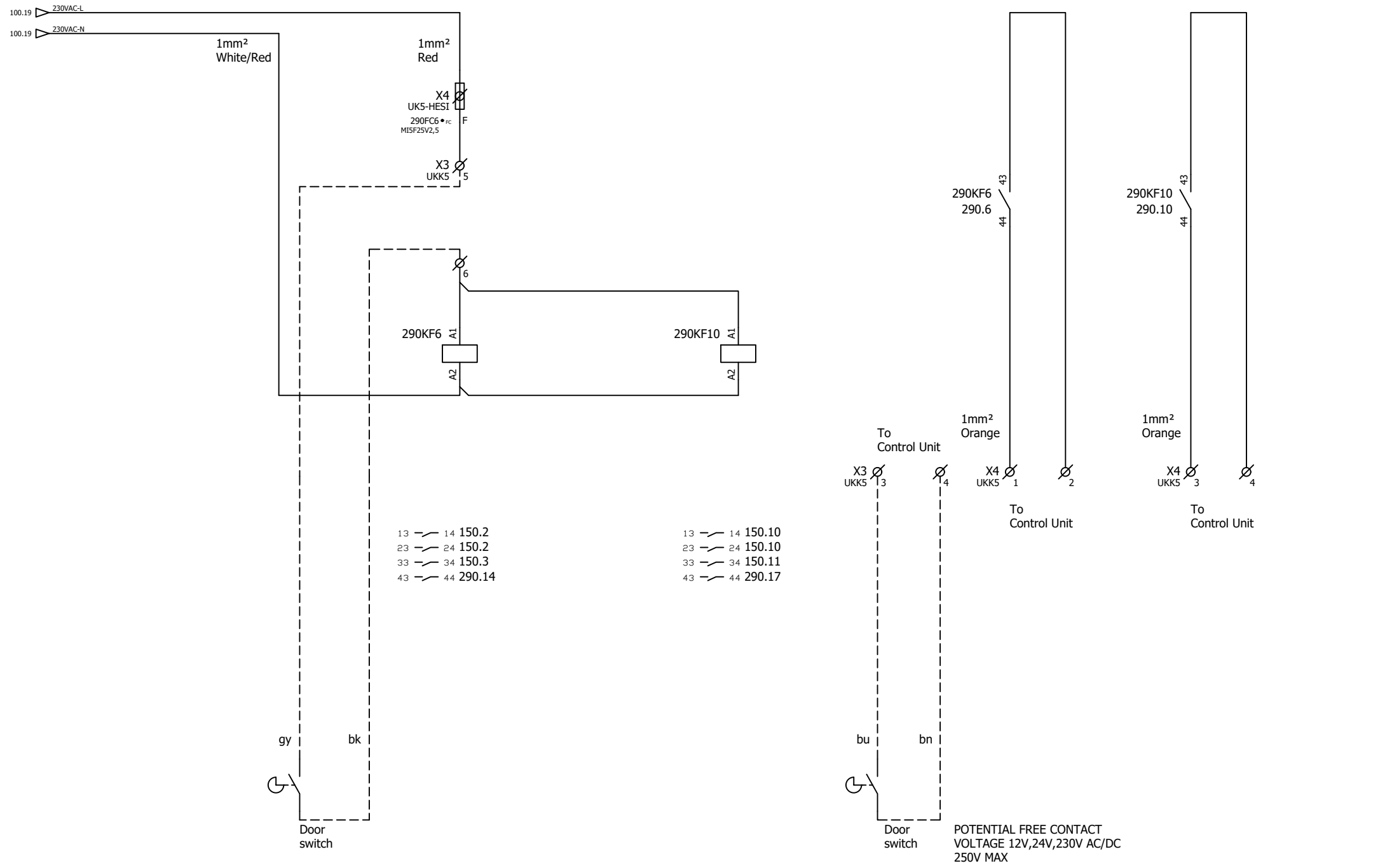
Project name : -
 Project number : -
 Customer: -
 Customer number: -



Product: SWITCH BOX CR TWIN ROTOR EX
 Item number: A240172
 Doc. number: A240172_Page-150.dwg

Drawing descr.: Main circuit

Sheet: 150
 Inst.:
 Loc.:



Prev. sheet: 150

Next Sheet: 800

Designer: MV
Design date: 27-05-2020
Rev. nr.: E
Status: Released

Project name : -
Project number : -
Customer: -
Customer number: -




Product: SWITCH BOX CR TWIN ROTOR EX
Item number: A240172
Doc. number: A240172_Page-290.dwg

Drawing descr.: Control circuit External

Sheet: 290
Inst.:
Loc.:

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|



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|--|---|---|---|-----------------------------------|-------------------------------|
| Prevl. sheet: 290 | | Next Sheet: 900 | | | |
| Designer: MV Design date: 27-05-2020 Rev. nr.: E Status: Released | Project name : - Project number : - Customer: - Customer number: - |  | Product: SWITCH BOX CR TWIN ROTOR EX Item number: A240172 Doc. number: A240172_Page-800.dwg | Drawing descr.: Spare connections | Sheet: 800 Inst.: Loc.: |

Bill of Material

| # | Item number | Manufacturer | Product Code | Custom code | Description |
|---|------------------|--------------|------------------|-----------------------------|---|
| 2 | Unshielded 4G1,5 | Default | UNSHIELDED 4G1,5 | UNSHIELDED 4G1,5 | UNSHIELDED 4G1,5 |
| 2 | E0078896 | EATON | 051759 | DILER-40(230V50HZ,240V60HZ) | 4NO, AC CURRENT |
| 1 | EIHF620204 | FERRAZ | Q215110Q | MISF25V2,5 | FAST ACTING 5X20mm 2,5A |
| 2 | E0085115 | PHOENIX | 2770024 | D-UKK 3-5 | END COVER FOR UKK 3-5 TERMINALS |
| 4 | EI0M100002 | PHOENIX | 3022218 | CLIPFIX 35 | END CLAMB FOR 35MM DIN RAIL, CLIPFIX 35 |
| 2 | EI0M030001 | PHOENIX | 3003020 | D-UK 4-10 | END COVER FOR UK 4-10 TERMINALS |
| 1 | EI0J010002 | PHOENIX | 3004100 | UKS-HESI | FUSE HOLDER 5 X 20-25-30MM |
| 5 | EI0J010003 | PHOENIX | 2774017 | UKK5 | 2 LEVELS - SCREW 0.2 - 4mm ² |
| 6 | E0078897 | PHOENIX | 3001501 | UK3_ | 1 LEVEL - SCREW 0.2 - 4mm ² |
| 5 | E0078904 | PHOENIX | 0441083 | USLKG3 | 1 LEVEL - SCREW, GROUND, 0.2 - 4mm ² |
| 1 | E0078679 | _Unknown | X | SEE PAGE 990 FOR DETAILS | SEE E-DWG PAGE 990 FOR DETAILS |

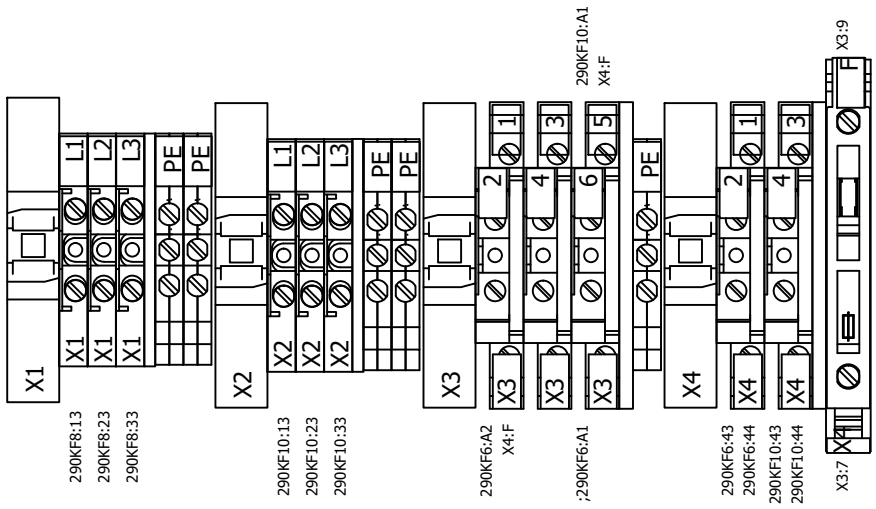


Components list

| Component code | Item number | Manufacturer | Product Code | Custom code | Description |
|----------------|------------------|--------------|------------------|-----------------------------|---|
| 150WD10 | UNSHIELDED 4G1,5 | DEFAULT | UNSHIELDED 4G1,5 | UNSHIELDED 4G1,5 | CABLE UNSHIELDED 4G1,5 DEFAULT |
| 150WD2 | UNSHIELDED 4G1,5 | DEFAULT | UNSHIELDED 4G1,5 | UNSHIELDED 4G1,5 | CABLE UNSHIELDED 4G1,5 DEFAULT |
| 290FC6 | EIHF620204 | FERRAZ | Q215110Q | MI5F25V2,5 | FUSE MI5F25V2,5 FERRAZ |
| 290KF10 | E0078896 | EATON | 051759 | DILER-40(230V50HZ,240V60HZ) | CONTACTOR DILER-40(230V50HZ,240V60HZ) EATON |
| 290KF6 | E0078896 | EATON | 051759 | DILER-40(230V50HZ,240V60HZ) | CONTACTOR DILER-40(230V50HZ,240V60HZ) EATON |
| 990TEXTPLATE2 | E0078679 | _UNKNOWN | X | SEE PAGE 990 FOR DETAILS | TEXT PLATE SEE PAGE 990 FOR DETAILS |



Terminals
inside
Switch box
A240172



- X1 EP1 D-UK 4-10 □ X2 EP1 D-UK 4-10 □ X3 EP1 D-UKK 3-5 □ X4 EP1 D-UKK 3-5
- X1 ES1 CLIPFIX 35 □ X2 ES1 CLIPFIX 35 □ X3 ES1 CLIPFIX 35 □ X4 ES1 CLIPFIX 35

Designer: MV
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Project name : -
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Product: SWITCH BOX CR TWIN ROTOR EX
 Item number: A240172
 Doc. number: A240172_Page-950.dwg


Drawing descr.: Terminal plan

Sheet: 950
 Inst.:
 Loc.:

990TEXTPLATE2

| | |
|---|--|
|  0344 BARTEC D-P2209 | BARTEC Boelewerf 25 2987 VD Ridderkerk www.bartec.nl |
|  II 2D Ex tb IIIC T80°C Db | |
| DEKRA 13 ATEX 0209 Ex tb IIIC T80°C Db 400-230VAC/50Hz IECEx DEK 13.0075kW../2015 Ta -20°C ... +40°C SERIAL Nr.: SEE INSTALLATION INSTRUCTION DOCUMENT | |

- CE sticker Bartec

| | | | | | |
|--|---|---|---|----------------------------|-------------------------------|
| Designer: MV Design date: 27-05-2020 Rev. nr.: E Status: Released | Project name : - Project number : - Customer: - Customer number: - |  | Product: SWITCH BOX CR TWIN ROTOR EX Item number: A240172 Doc. number: A240172_Page-990.dwg | Drawing descr.: Text plate | Sheet: 990 Inst.: Loc.: |
|--|---|---|---|----------------------------|-------------------------------|