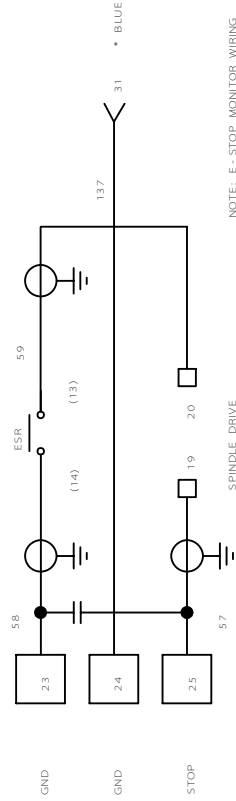
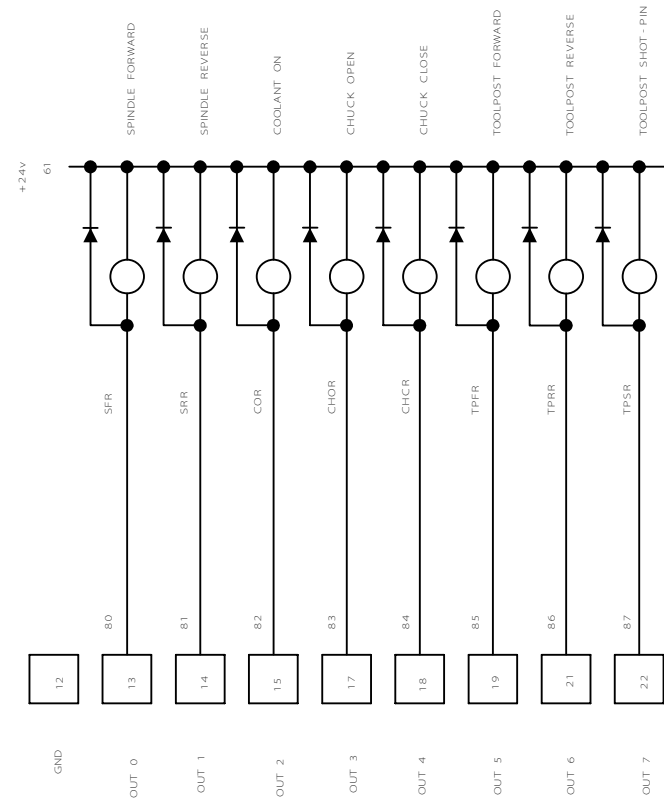


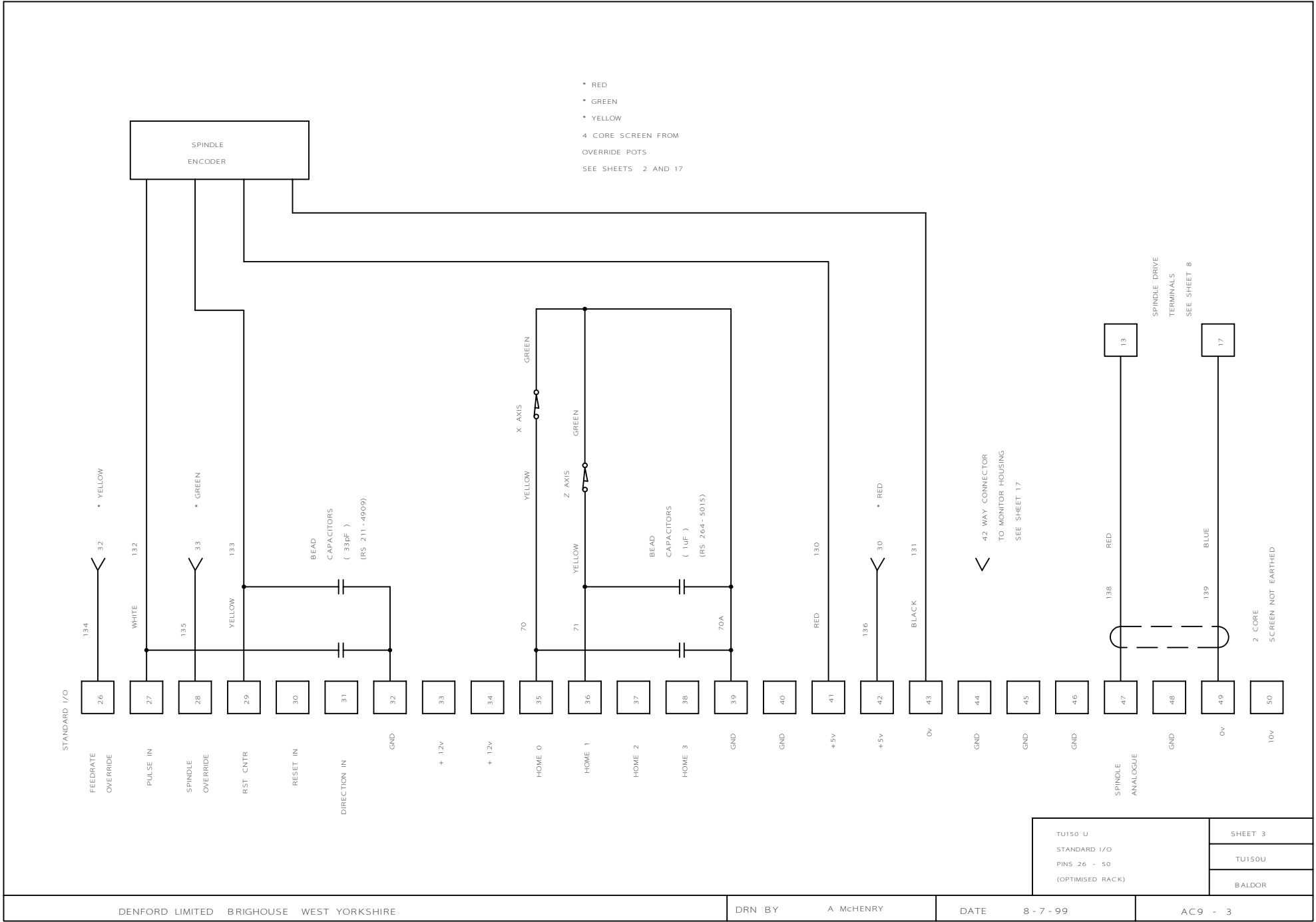
42 WAY CONNECTOR
TO MONITOR HOUSING
SEE SHEET 17

RELAY
MODULES



* BLUE
4 CORE SCREEN FROM
OVERRIDE POTS
SEE SHEETS 3 AND 17

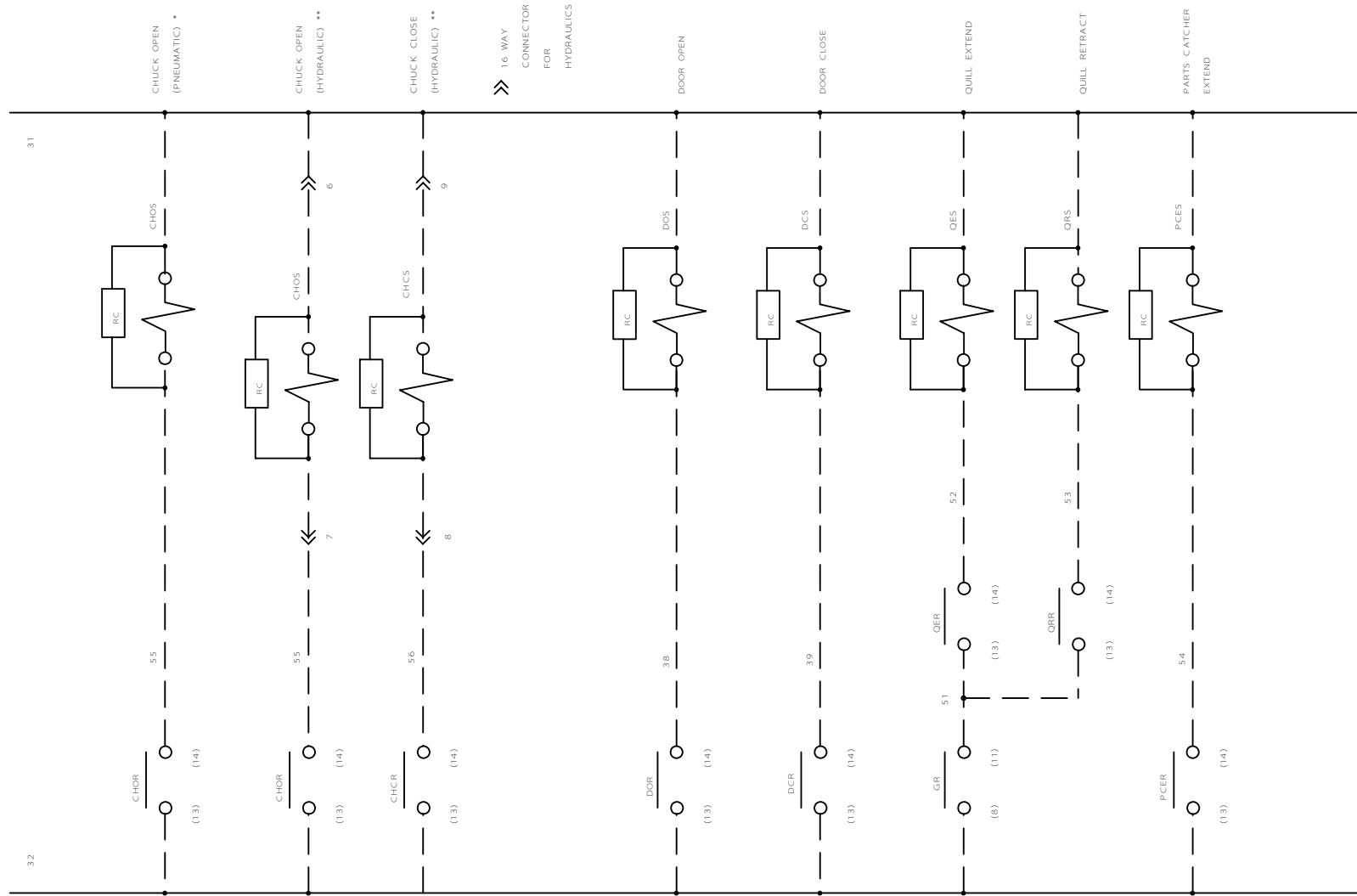
NOTE: E-STOP MONITOR WIRING
USES SINGLE CORE FROM
2 CORE SCREEN CABLES



TUI50 U STANDARD I/O PINS 26 - 50 (OPTIMISED RACK)	SHEET 3
	TUI50U
	BALDOR

110v FROM CONTROL TRANSFORMER
SEE SHEETS 1 AND 4

0v



* IF CHUCK IS PNEUMATIC USE CHOR ONLY

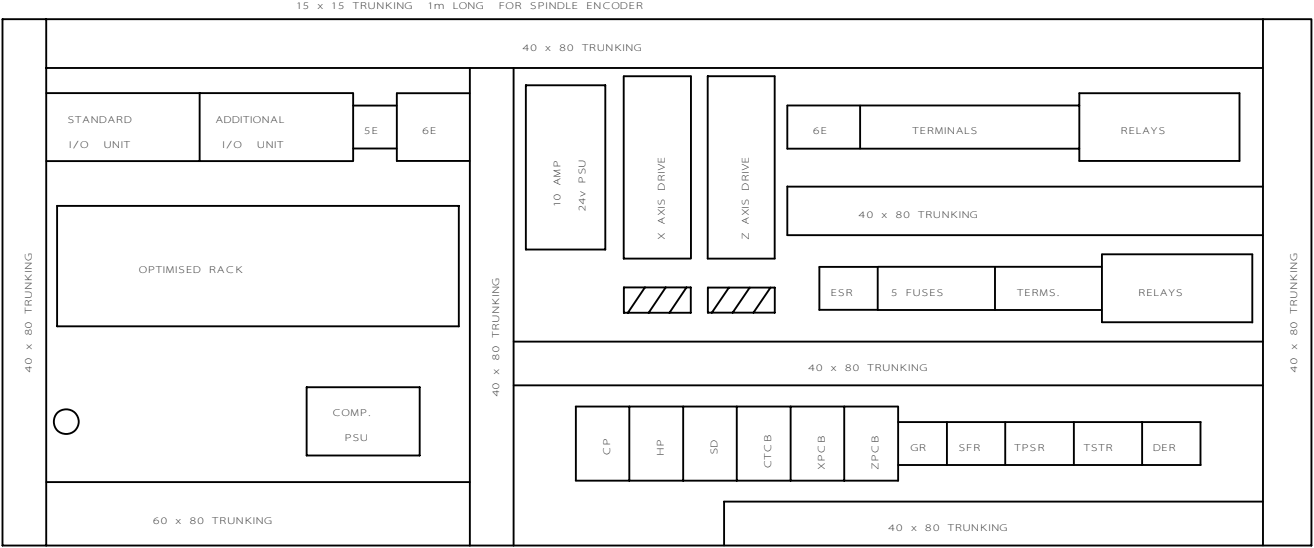
** IF CHUCK IS HYDRAULIC USE CHOR AND CHCR

TU150 U
110v SCHEMATIC
SOLENOID WIRING

SHEET 5

TU150U

BALDOR



STANDARD I/O
SHEETS 2 AND 3

ADDITIONAL I/O
SHEET 12

RACK DETAILS
SHEET 14

COMPUTER LEAD WIRING
SHEET 18

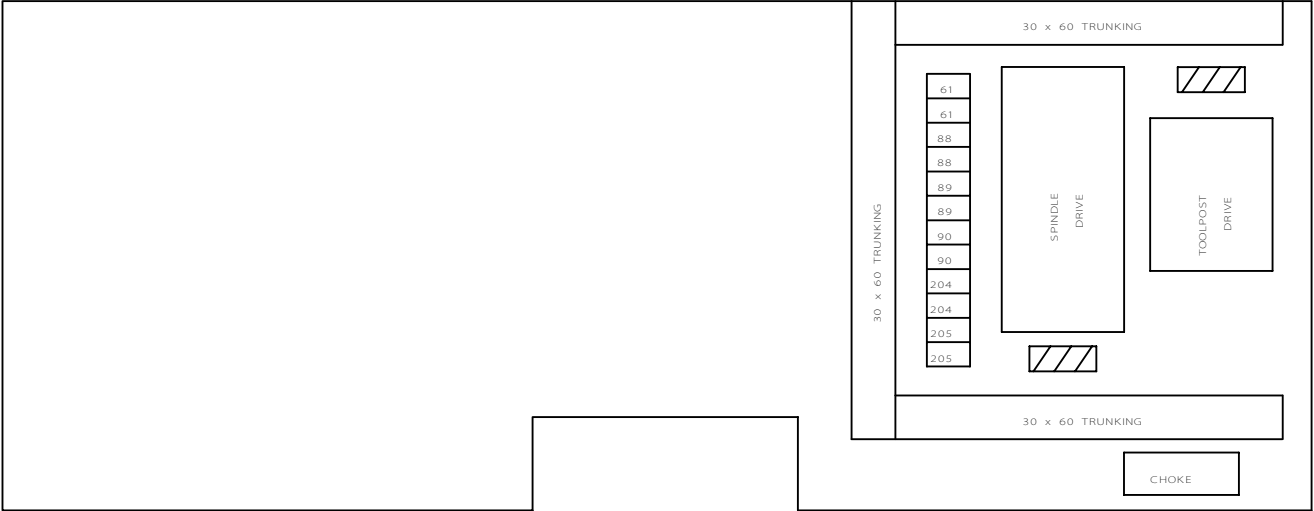
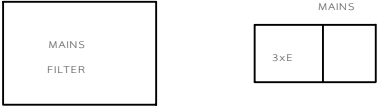
AXIS DRIVE DETAILS
SHEETS 15 AND 16

RELAY AND TERMINAL DETAILS
SHEET 7

TRANSFORMER PLATE
SHEET 13

SPINDLE DRIVE DETAILS
SHEET 8

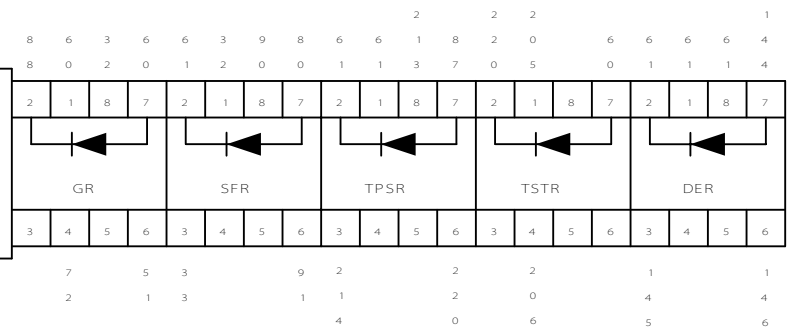
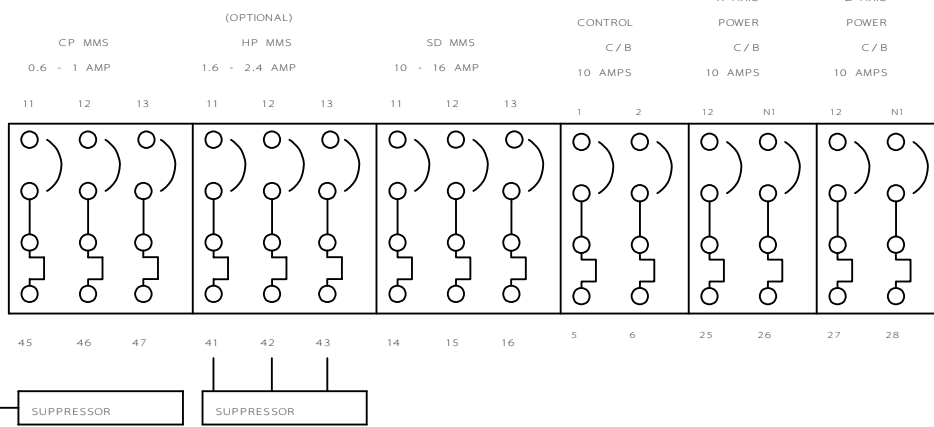
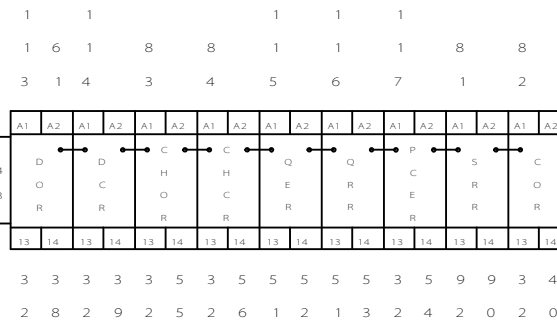
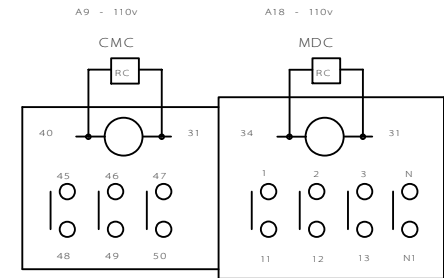
TOOLPOST DRIVE DETAILS
SHEET 9

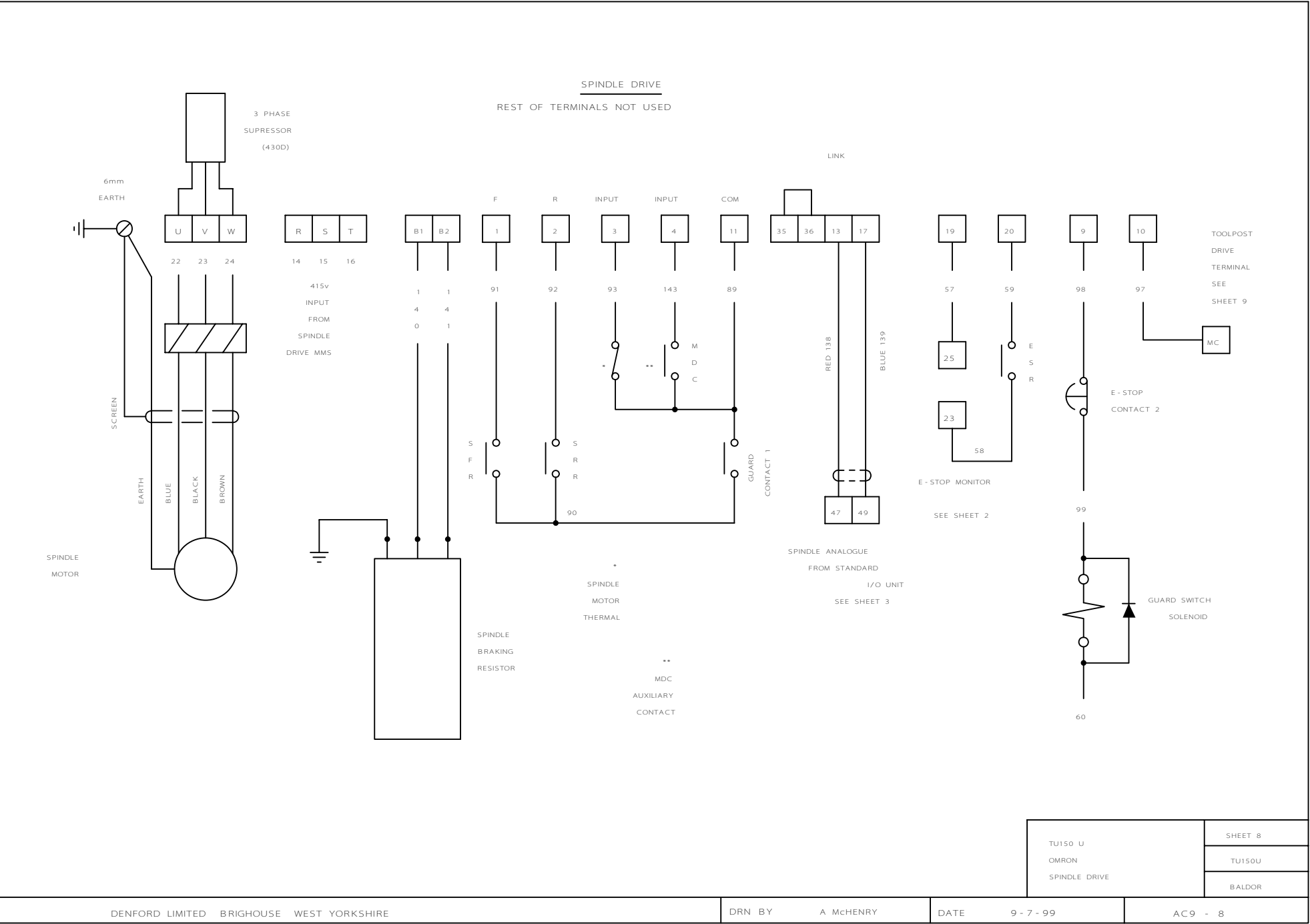


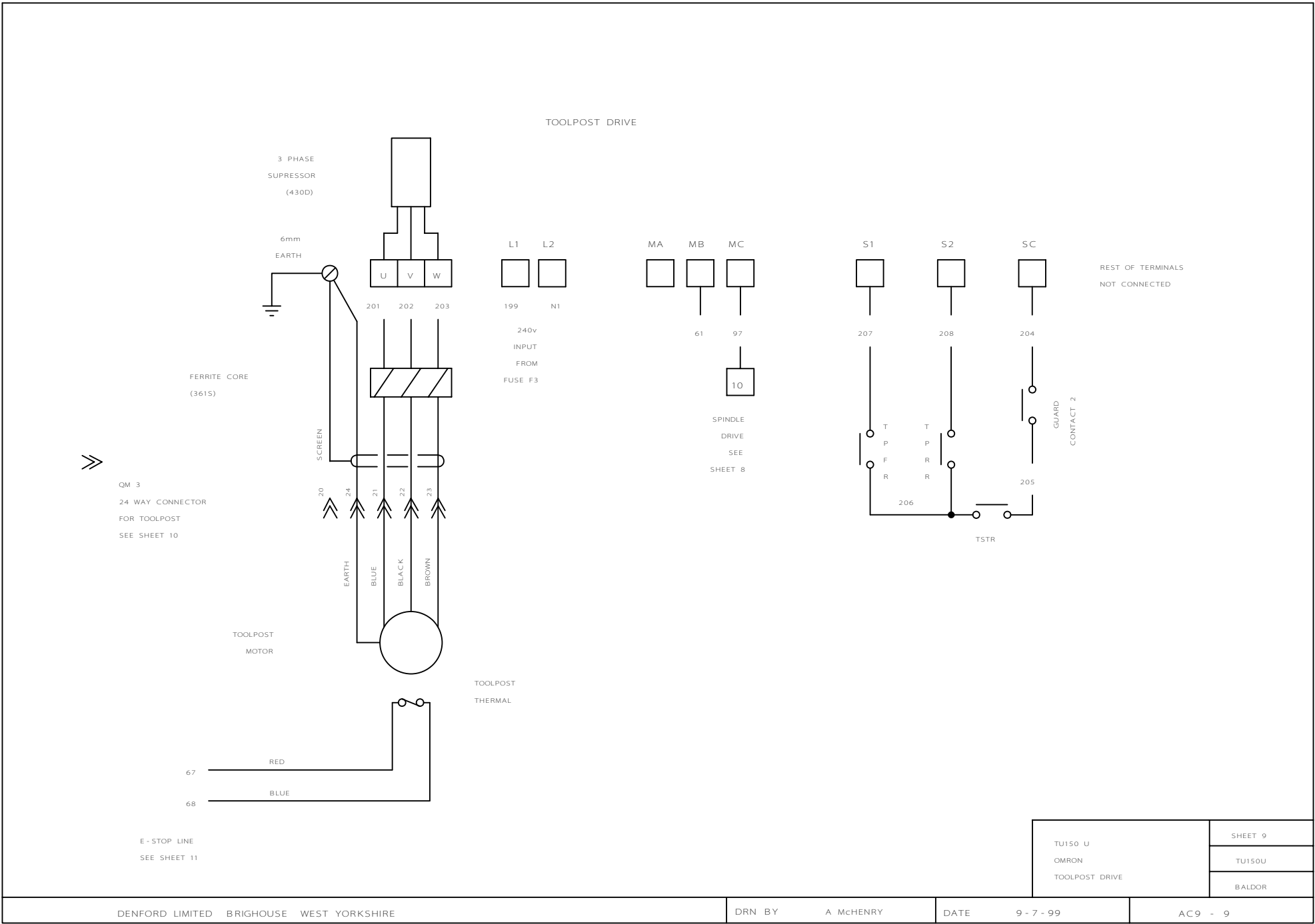
FERRITE CORE
(3615)

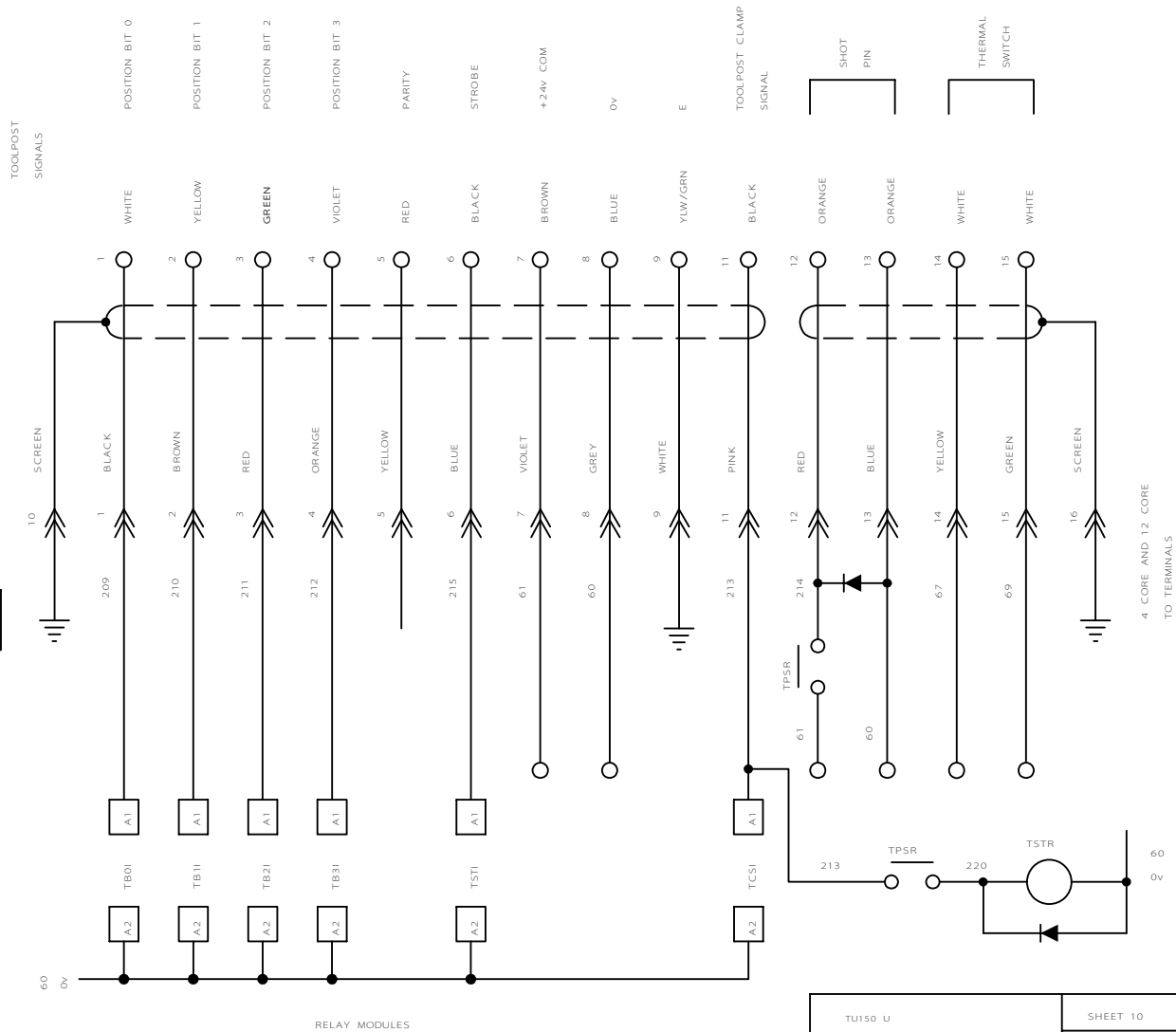
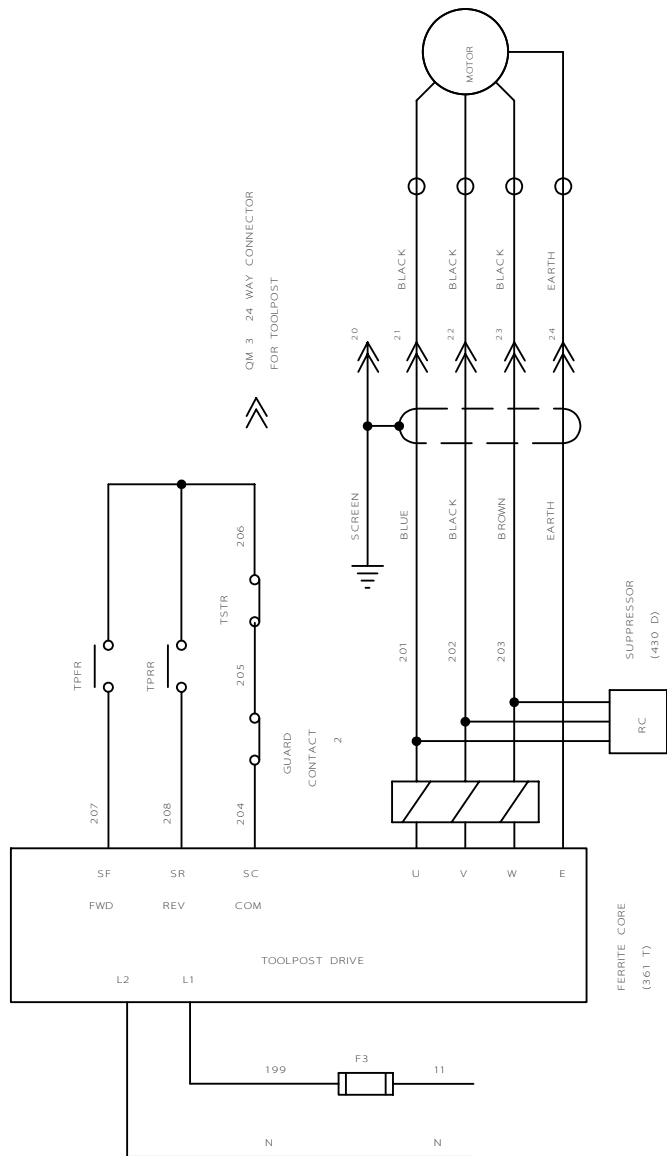
FERRITE CORE
(3615)

TU150 U POWER SCHEMATIC	SHEET 6
	TU150U
	BALDOR



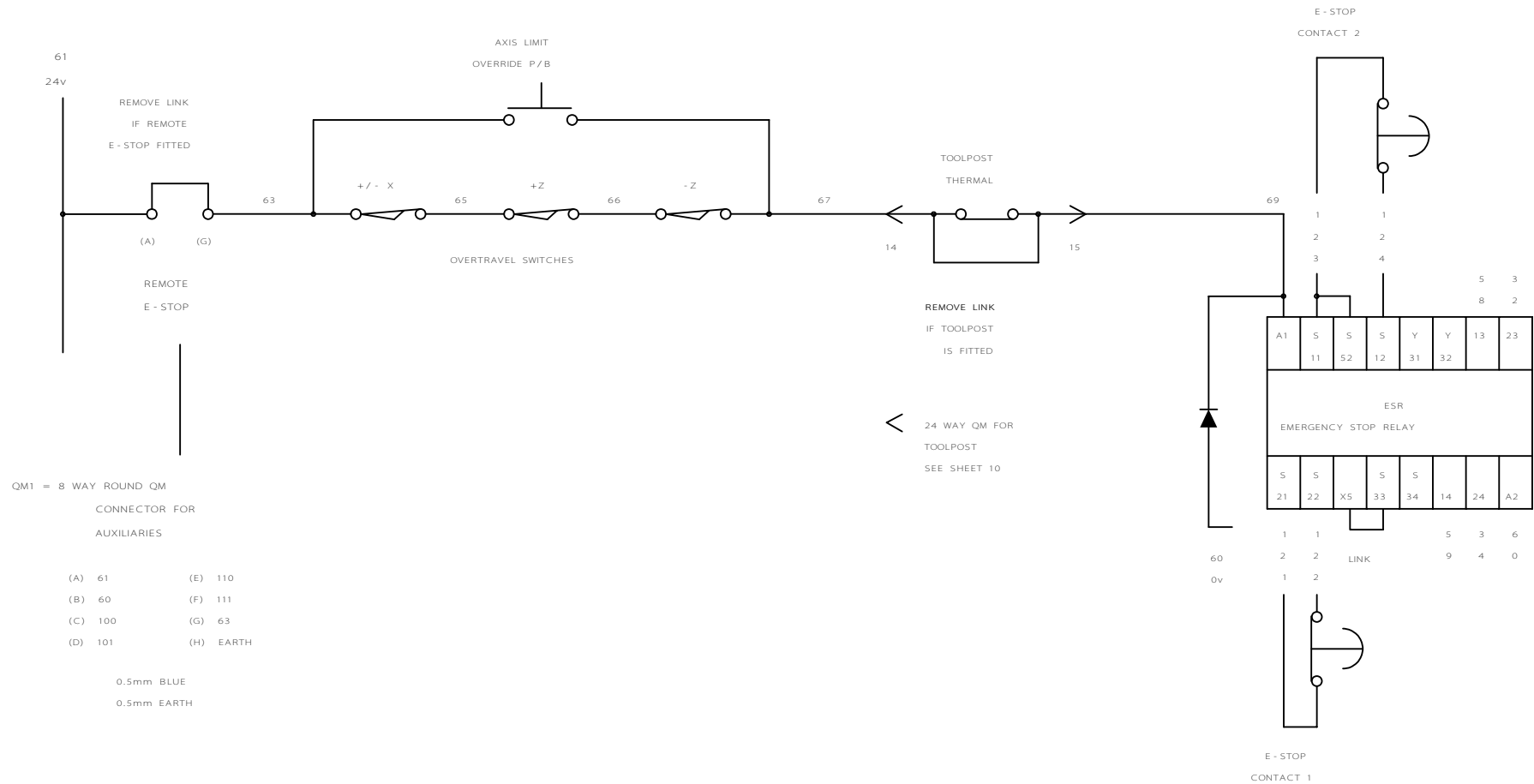




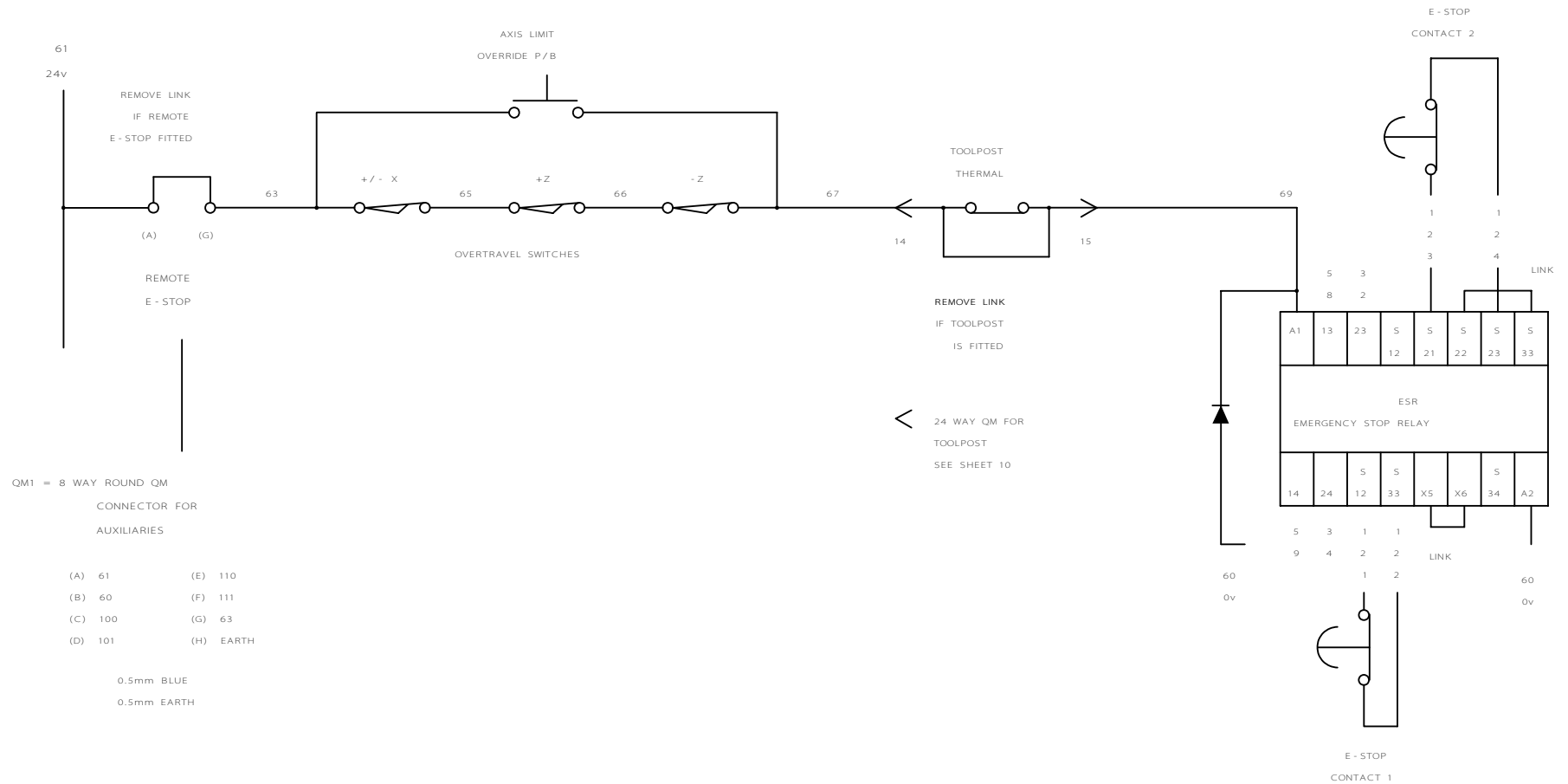


SEE SHEET 2 FOR PIN NUMBERS ON 50 WAY INTERFACE UNIT

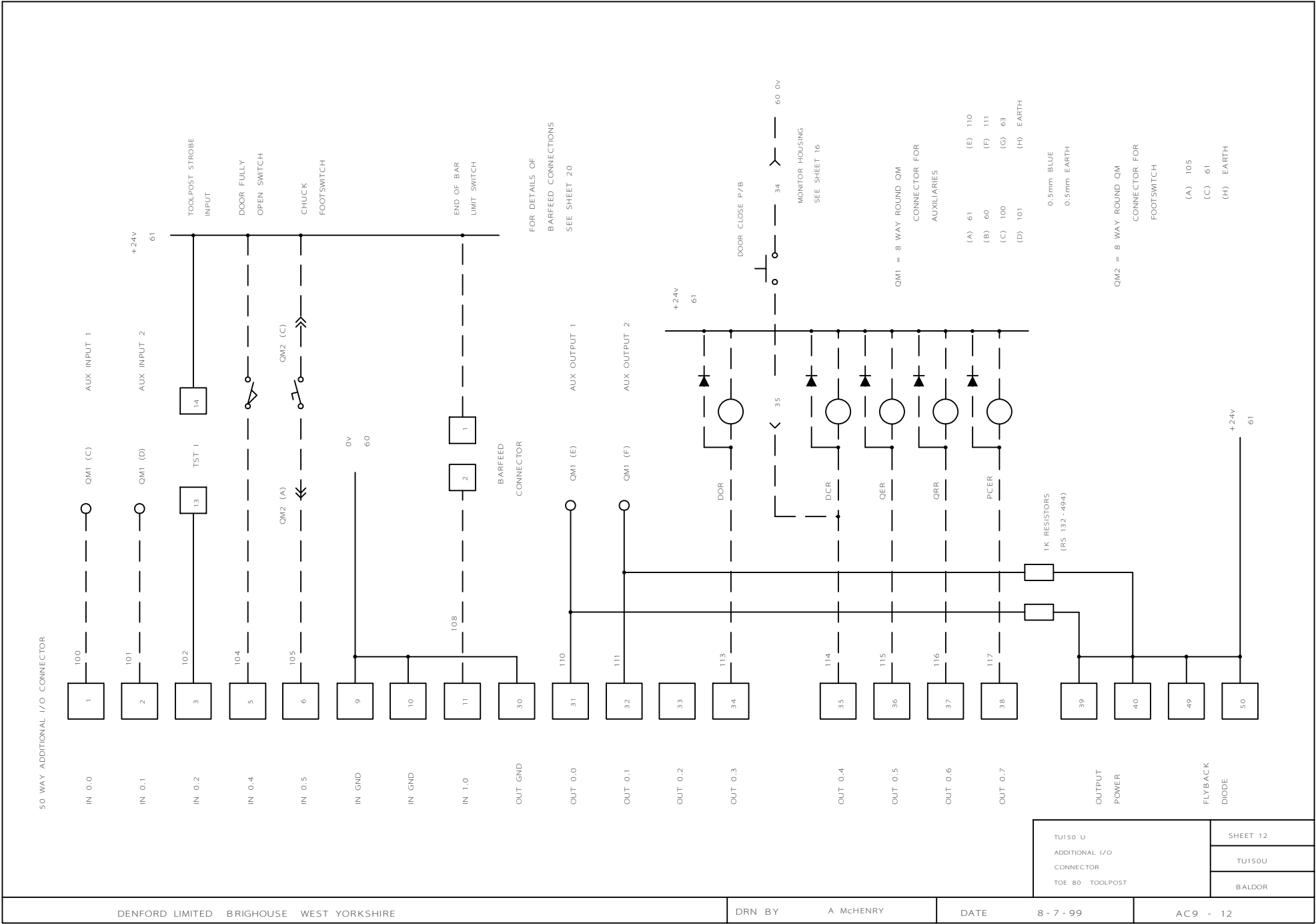
TUI50 U BARUFFALDI TOE 80 WIRING DIAGRAM	SHEET 10
	TUI50U
	BALDOR



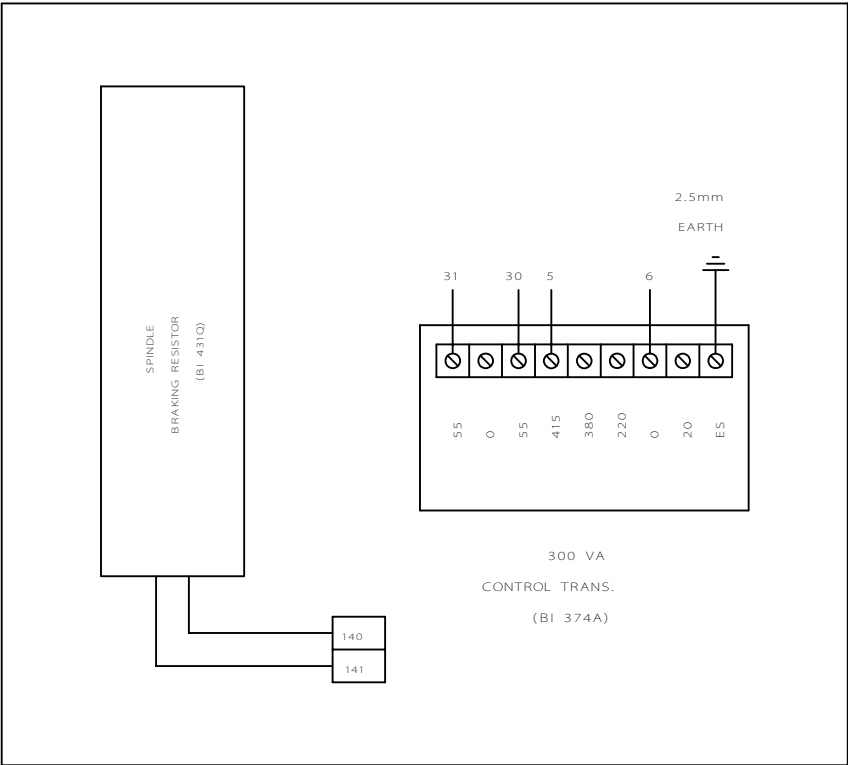
TU150 U E - STOP CIRCUIT	SHEET 11
	TU150U
	BALDOR



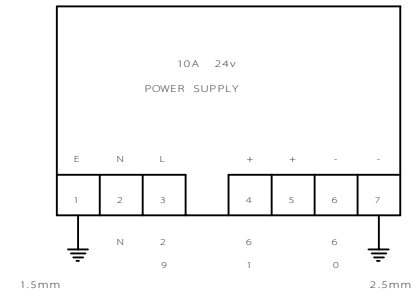
TU150 U E - STOP CIRCUIT	SHEET 11
	TU150U
	BALDOR



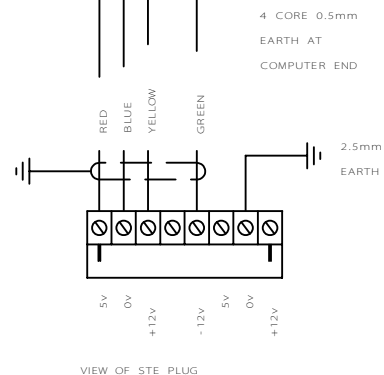
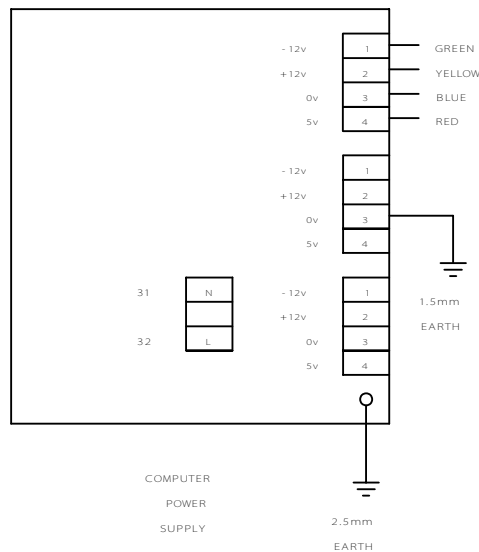
TRANSFORMER PLATE



24v POWER SUPPLY
MOUNTED ON BOTTOM OF CABINET



TU150 U POWER SUPPLY AND TRANSFORMER PLATE WIRING	SHEET 13
	TU150U
	BALDOR



LED
DISPLAY

STANDARD I/O UNIT
SEE SHEETS 2 AND 3

ADDITIONAL I/O UNIT
SEE SHEET 12

AXIS ENCODER
CONNECTORS
SEE SHEET 10

PART NUMBERS

RACK

BI 433E

SPINDLE ANALOGUE CARD

BI 433D

MINT CARD

BI 433G

COMPUTER

BI 463

POWER SUPPLY UNIT

RS 775-215

CONNECTOR KIT

RS 775-259

ADDITIONAL I/O CARD

BI 432M/24

COMPUTER
CONNECTIONS
SEE SHEET 18

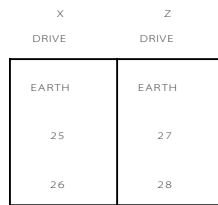
TUI50 U
OPTIMISED RACK
DETAILS

SHEET 14

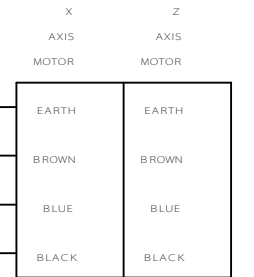
TUI50U

BALDOR

240v FROM
10A C/B'S
SEE SHEET 1



EARTH
STUD

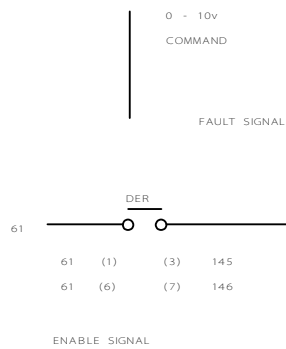


2
1
4
3

MOTOR
CONNECTOR

SIGNALS FROM RACK TO DRIVES

SEE SHEET 16
FOR DETAILS

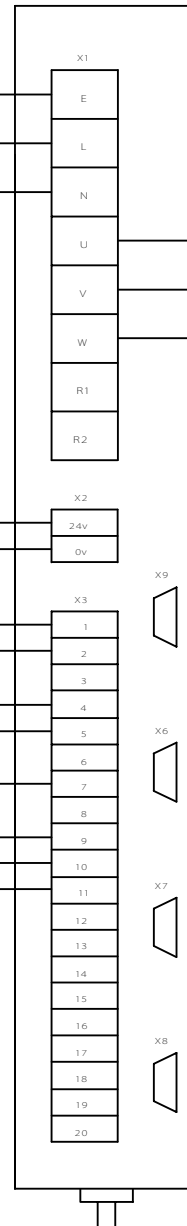


61
60

BLUE
RED

60

61



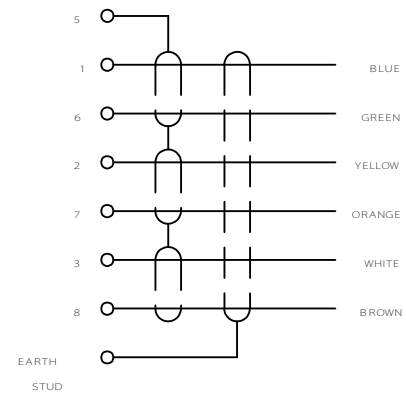
ENCODER
INPUT

RS 232
SIGNALS

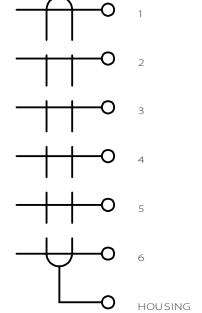
ENCODER
OUTPUT
SEE SHEET 16

RESOLVER
INPUT

RESOLVER
X8
9 WAY MALE



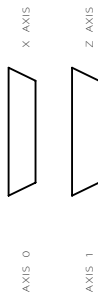
MOTOR
CONNECTOR
12 WAY ROUND



TRIAC VMC SERVO
BALDOR DRIVES
CONNECTIONS

SHEET 15
TUI50U
BALDOR

AXIS CONNECTOR
ARRANGEMENT

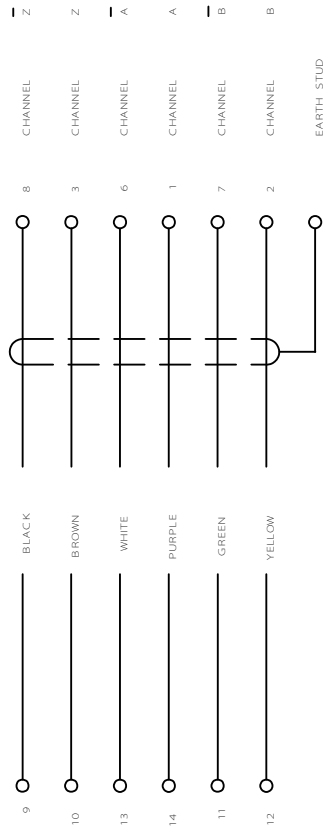


RACK CONNECTORS
15 WAY D TYPE
MALE PINS

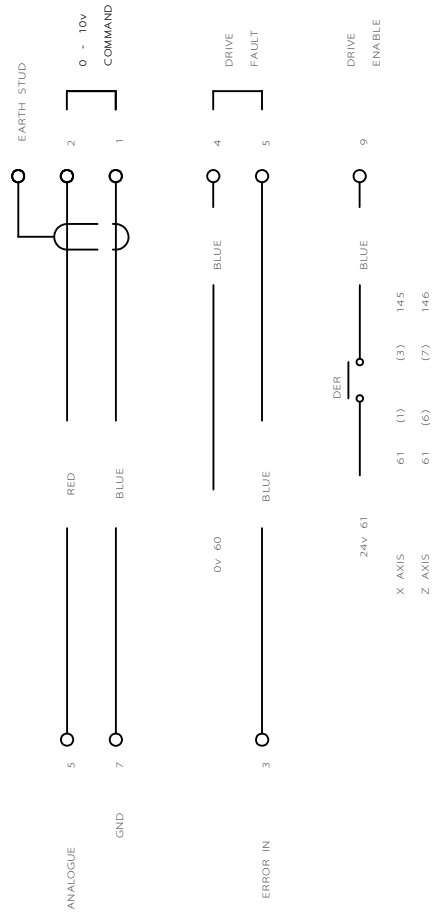
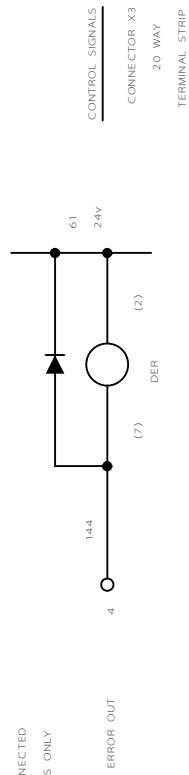
ENCODER SIGNALS

CONNECTOR X7
9 WAY

MALE PINS



NOTE
DER CONNECTED
TO X AXIS ONLY



TU150 U
RACK TO AXIS
DRIVE SIGNALS

SHEET 16
TU150U
BALDOR

4mm EARTH

PIN	COLOUR	WIRE
1	BROWN	7
2	BLUE	N
3	EARTH	E
4	RED	(2)
5	BLUE	(3)
6	YELLOW	(4)
7	BLACK	(6)
8	BROWN	(20)
9	SCREEN	(7)
10	BLACK	(1)
11	BROWN	(2)
12	RED	(3)
13	ORANGE	(5)
14	YELLOW	(6)
15	GREEN	(7)
16	BLUE	(8)
17	VIOLET	(10)
18	GREY	(11)
19	WHITE	(13)
20	PINK	(14)
21	SCREEN	

MONITOR
POWER

KEYPAD

MONITOR
SIGNALS

SCREEN TO SHELL

1mm
3 CORE
FLEX

8 CORE
SCREEN

12 CORE
SCREEN

* 8 CORE SCREEN
TO PUSHBUTTONS

4 CORE AND 2 CORES
TO MAIN PANEL

PIN	COLOUR	WIRE
22	BLACK*	RED 121
23	BROWN*	BLUE 122
24	RED*	RED 123
25	YELLOW*	BLUE 124
26	GREEN*	RED 98
27	BLUE*	BLUE 99
28	VIOLET*	YELLOW 63
29	WHITE*	GREEN 67
30	RED	136
31	BLUE	137
32	YELLOW	134
33	GREEN	135
34	RED	60
35	BLUE	114

PINS 36 - 42
ARE NOT USED

(* ONLY FITTED IF)
(MACHINE HAS POWER DOOR)

E - STOP
CONTACT 1

E - STOP
CONTACT 2

E - STOP
CONTACT 3

AXIS
OVERRIDE

SPINDLE AND
FEEDRATE
OVERRIDE
POTS

MANUAL DOOR
CLOSE P/B *

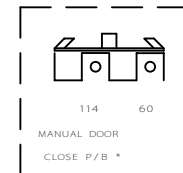
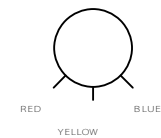
2 CORE
SCREEN

2 CORE
SCREEN

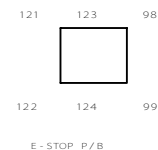
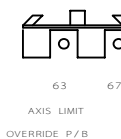
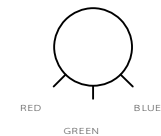
4 CORE
SCREEN

4 CORE
SCREEN

FEEDRATE
OVERRIDE POT.



SPINDLE SPEED
OVERRIDE POT.



FLEX TO PANEL
1.75m LONG



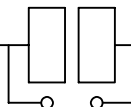
MALE PINS

MONITOR
CONNECTOR



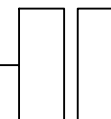
SCREEN TO SHELL

15 WAY
HIGH DENSITY
D TYPE



SCREEN TO SHELL

42 WAY
HARTING CONNECTOR



SCREEN TO PIN 21

COMPUTER



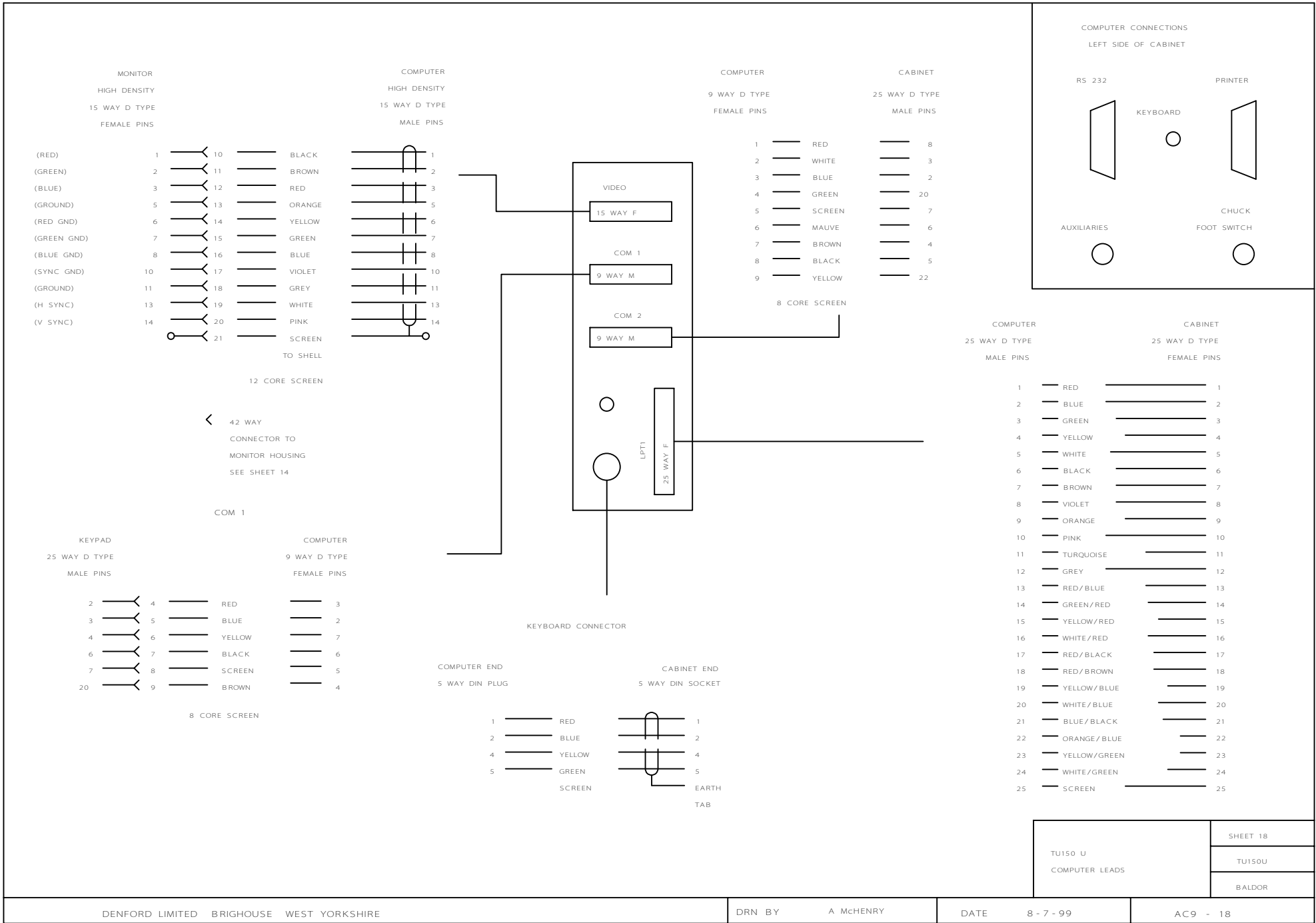
SCREEN TO SHELL

TUI50 U
OPERATORS PANEL
DIAGRAM

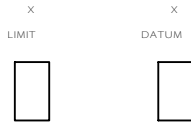
SHEET 17

TUI50U

BALDOR



VIEW FROM BACK
OF CASTING

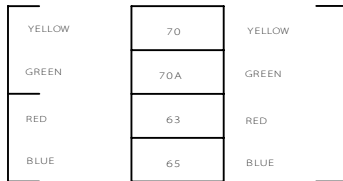


SADDLE CONNECTION BOX

1mm
SINGLES
FROM
SWITCHES

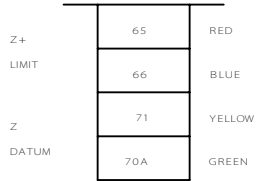
X
DATUM

X
LIMIT



4 CORE
SCREEN
0.2mm
TO PANEL

VIEW FROM TOP
OF SWITCH



4 CORE
SCREEN
0.2mm

Z -
LIMIT



2 CORE
SCREEN
0.2mm

INTERLOCK GUARD SWITCH
WITH SOLENOID

(REMOVE LINK 12 - 41)

GUARD
SWITCH
CONTACTS

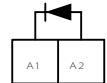
89 BLACK
204 RED
61 GREEN



BROWN 90
YELLOW 205
BLUE 88

8 CORE TO
DOOR PANEL

GUARD
SOLENOID

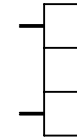


99 60

R B
E L
D U
E

2 CORE TO
MAIN PANEL
TERMINALS

61 BROWN
74 BLUE



AIR PRESSURE
SWITCH

N/C WHEN NO AIR
CONNECTED

COOLANT PUMP

BLUE 48
BLACK 49
BROWN 50
EARTH E
1mm FLEX
(WIRE IN STAR)

WORKLIGHT

BLACK 31
BLACK 42
EARTH E
0.5mm SINGLES

LUBE PUMP

BLACK 31
BLACK 33
EARTH E
1mm FLEX

LUBE FLOAT SWITCH

RED 73
BLUE 60
2 CORE SCREEN

SPINDLE MOTOR (WIRE IN DELTA)

1mm BLACK 4 CORE SCREEN

SPINDLE MOTOR FAN (SINGLE PHASE)

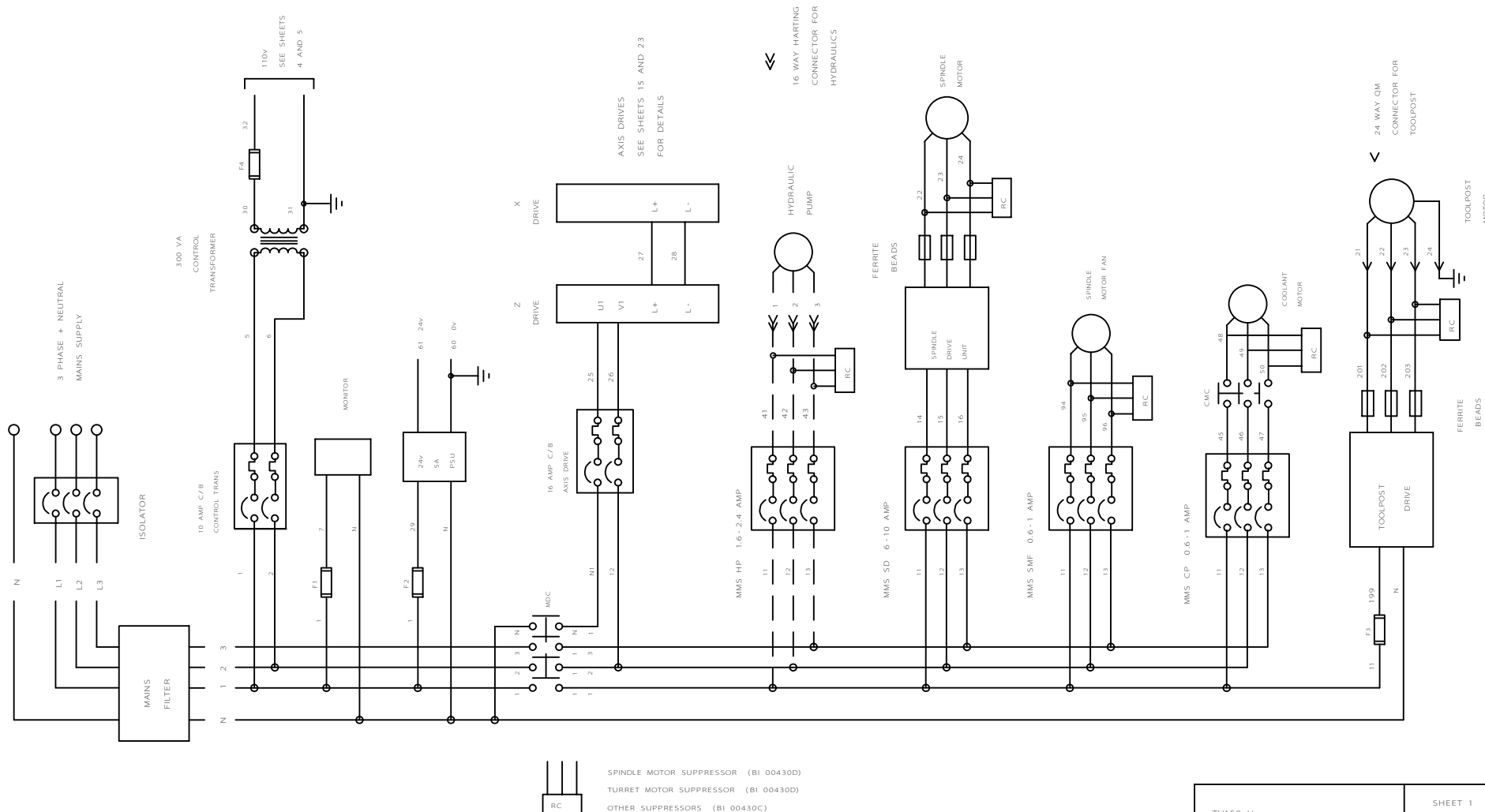
1mm 3 CORE FLEX

SPINDLE MOTOR THERMAL

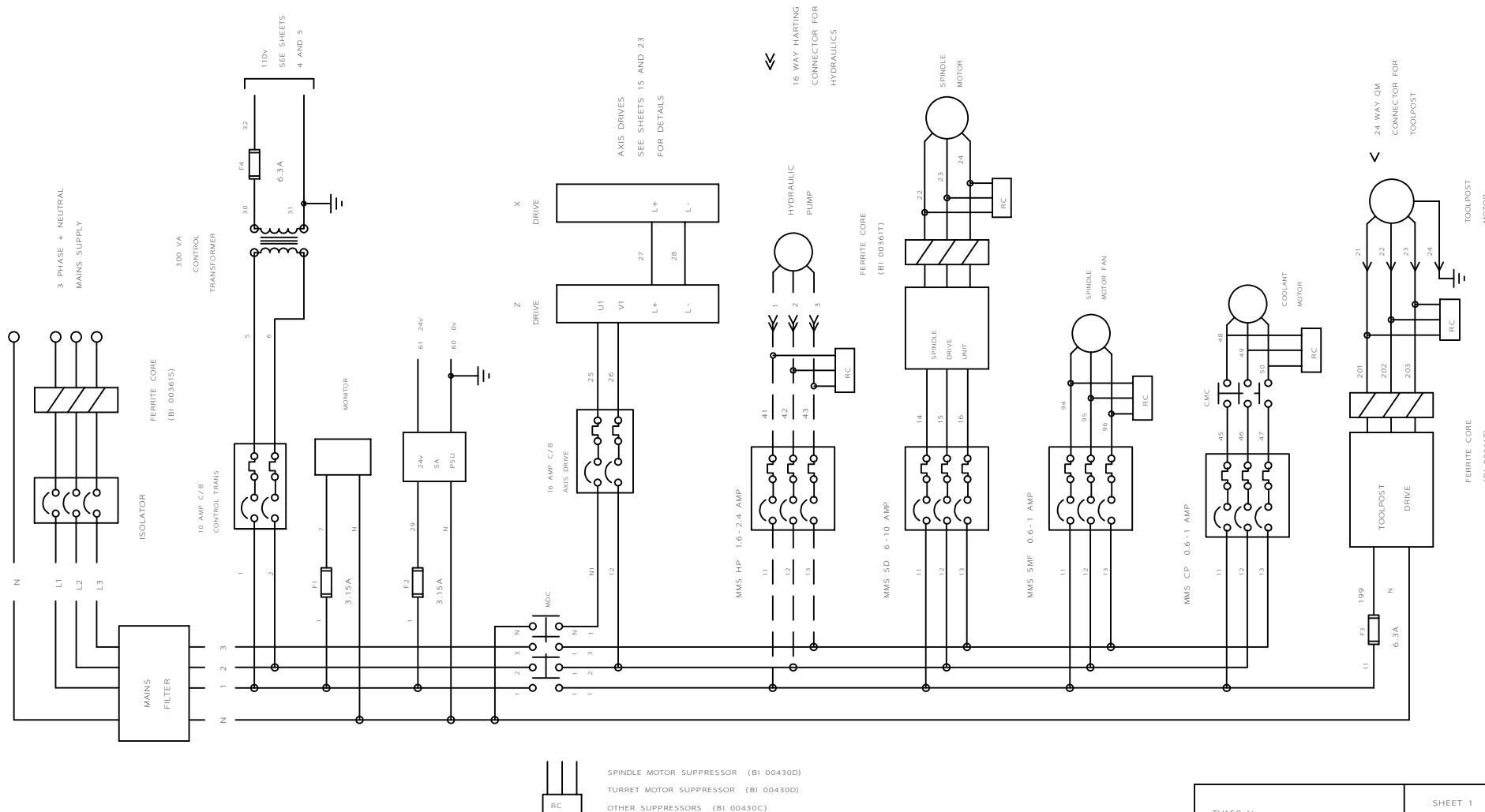
2 CORE SCREEN

TU150 U
SWITCH AND
MOTOR WIRING

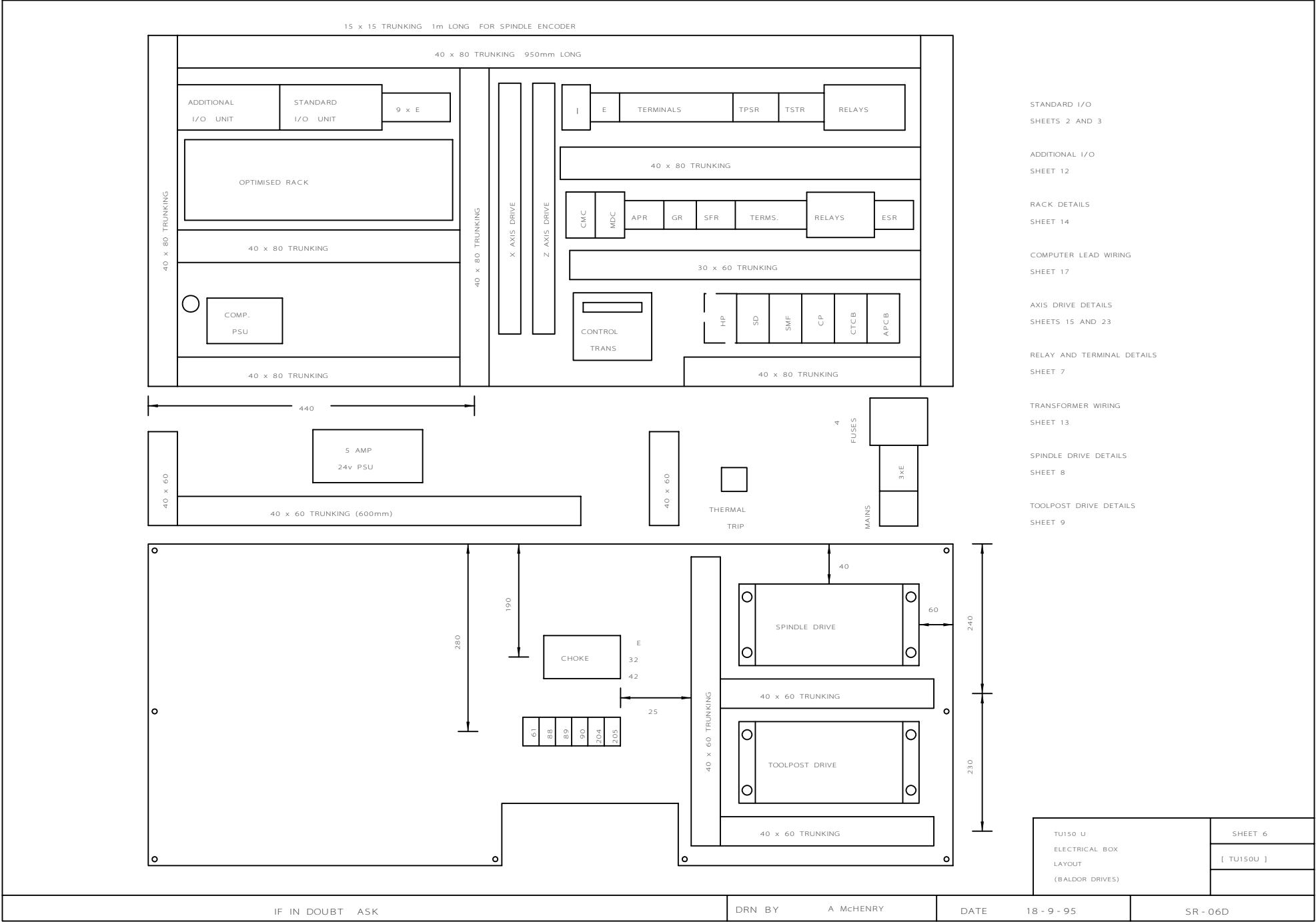
SHEET 19
TU150U
BALDOR

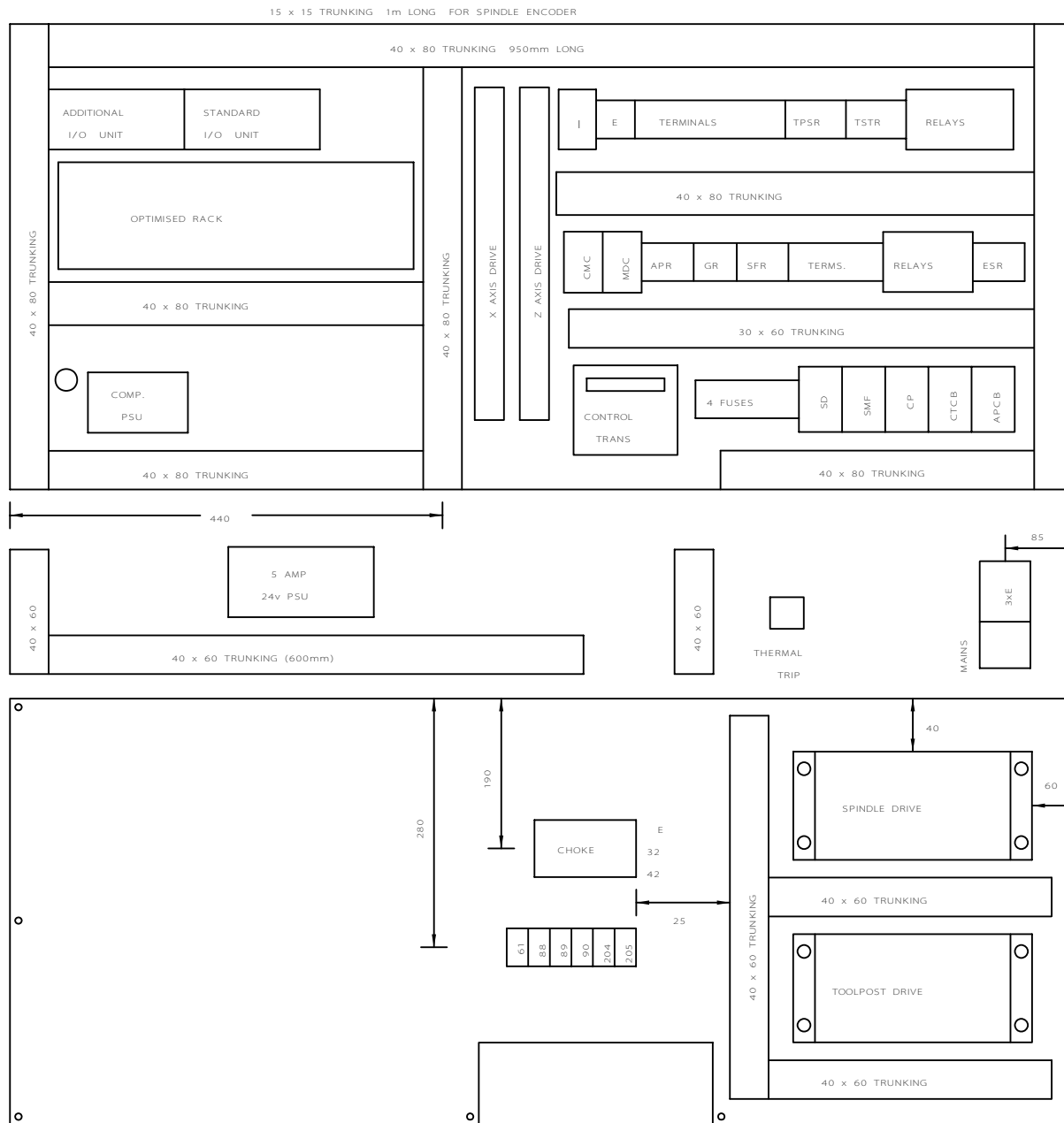


TU150 U POWER SCHEMATIC (BALDOR DRIVES)	SHEET 1
	[TU150U]



TU150 U POWER SCHEMATIC (BALDOR DRIVES)	SHEET 1
	[TU150U]





STANDARD I/O
SHEETS 2 AND 3

ADDITIONAL I/O
SHEET 12

RACK DETAILS
SHEET 14

COMPUTER LEAD WIRING
SHEET 17

AXIS DRIVE DETAILS
SHEETS 15 AND 23

RELAY AND TERMINAL DETAILS
SHEET 7

TRANSFORMER WIRING
SHEET 13

SPINDLE DRIVE DETAILS
SHEET 8

TOOLPOST DRIVE DETAILS
SHEET 9

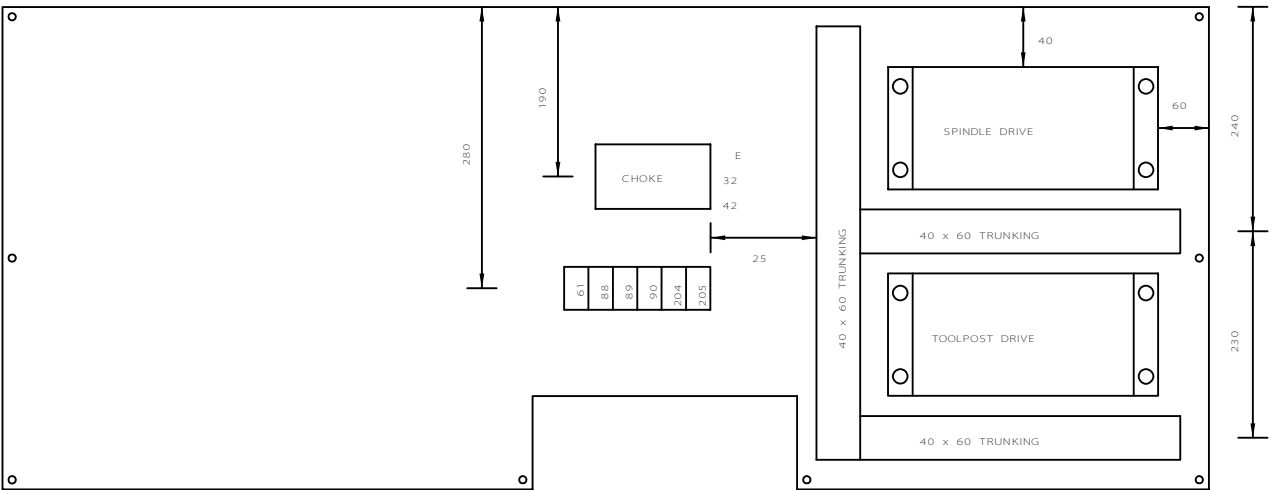
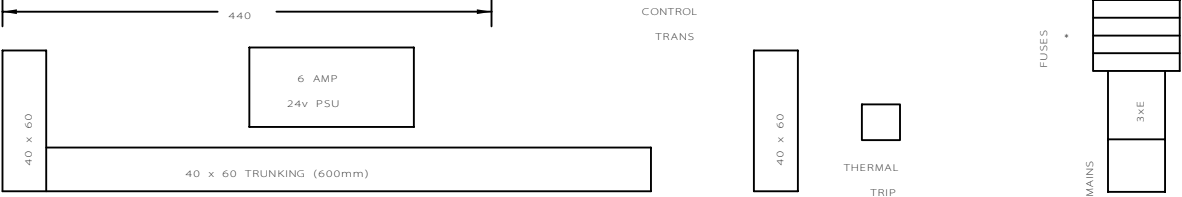
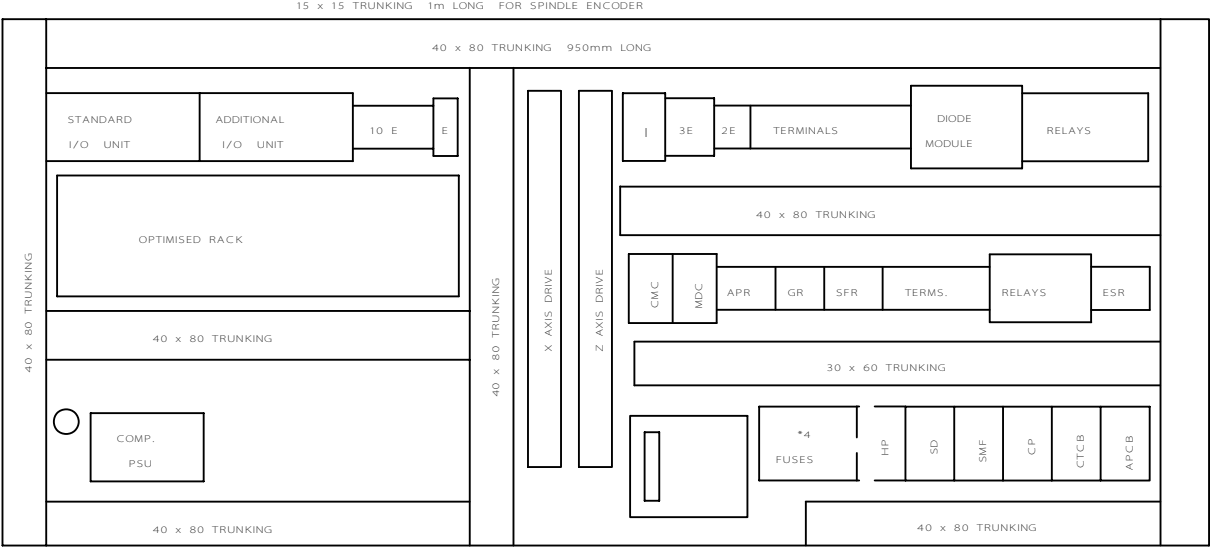
TU150 U ELECTRICAL BOX LAYOUT (BALDOR DRIVES)	SHEET 6
	[TU150U]

IF IN DOUBT ASK

DRN BY A MCHENRY

DATE 18 - 9 - 95

SR - 06E



STANDARD I/O
SHEETS 2 AND 3

ADDITIONAL I/O
SHEET 12

RACK DETAILS
SHEET 14

COMPUTER LEAD WIRING
SHEET 17

AXIS DRIVE DETAILS
SHEETS 15 AND 23

RELAY AND TERMINAL DETAILS
SHEET 7

TRANSFORMER WIRING
SHEET 13

SPINDLE DRIVE DETAILS
SHEET 8

TOOLPOST DRIVE DETAILS
SHEET 9

* FUSES

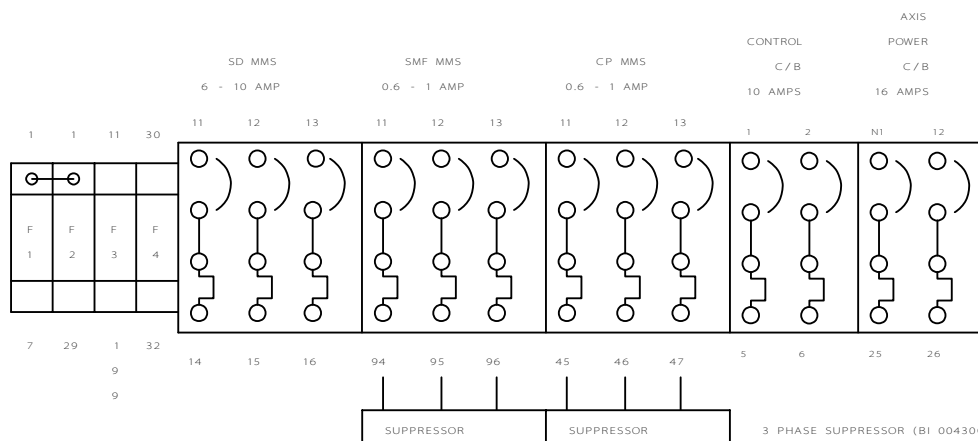
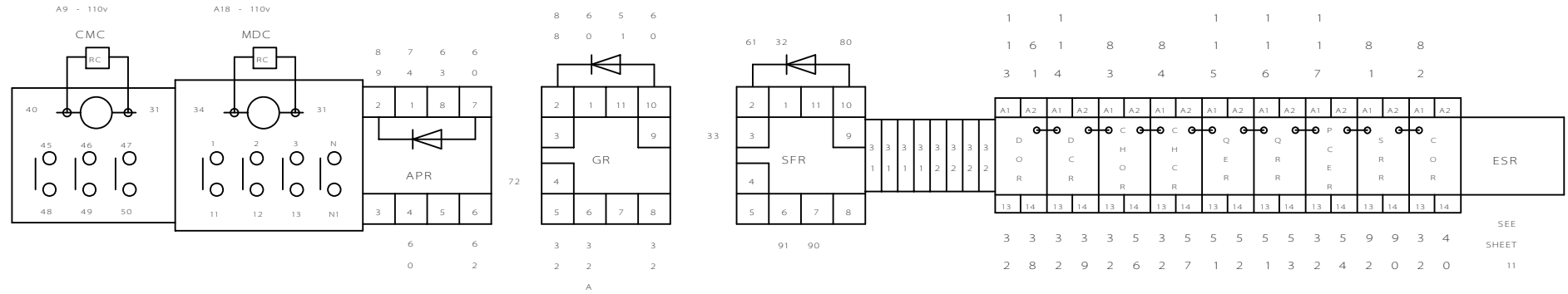
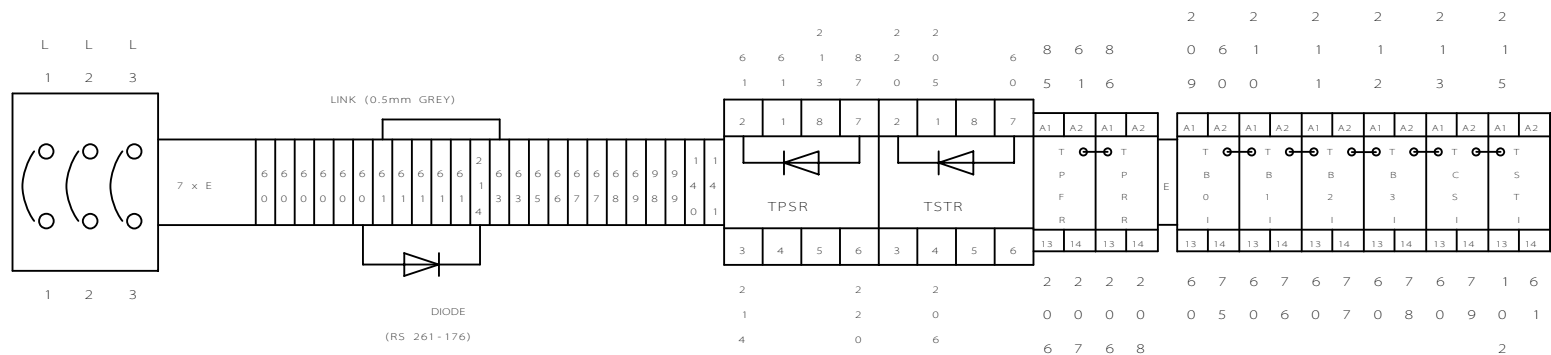
FUSES ARE USUALLY FITTED
ON MAIN PANEL

IF HYDRAULIC CHUCK IS FITTED
FUSES ARE PLACED ON BOTTOM
OF CABINET
NEXT TO MAINS TERMINALS

TU150 U
ELECTRICAL BOX
LAYOUT
(BALDOR DRIVES)

SHEET 6

[TU150U]



F1 3.15 A MONITOR
F2 3.15 A 24v PSU
F3 6.3 A TOOLPOST DRIVE
F4 6.3 A 110v CONTROL
ALL FUSES T TYPE

THERMAL TRIP AND EARTH TERMINALS
SEE SHEET 13

TU150 U RELAY WIRING DETAILS	SHEET 7
TOE 80 TURRET (BALDOR DRIVES)	[TU150U]

IF IN DOUBT ASK

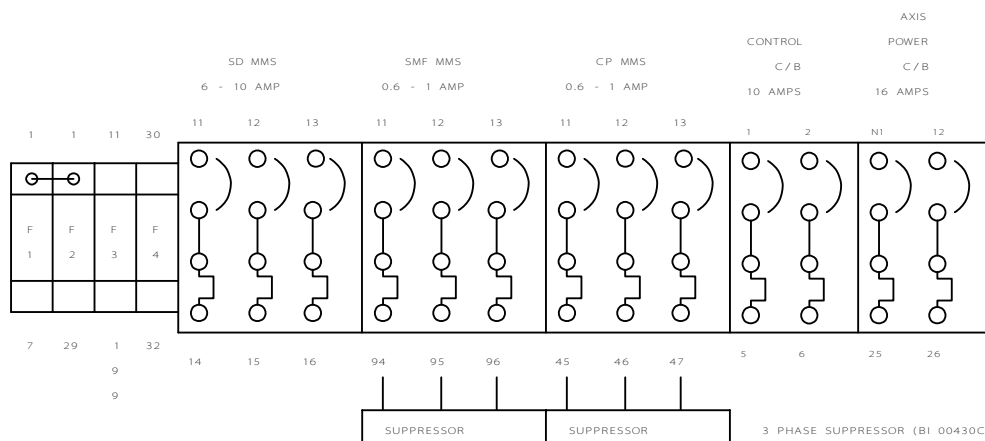
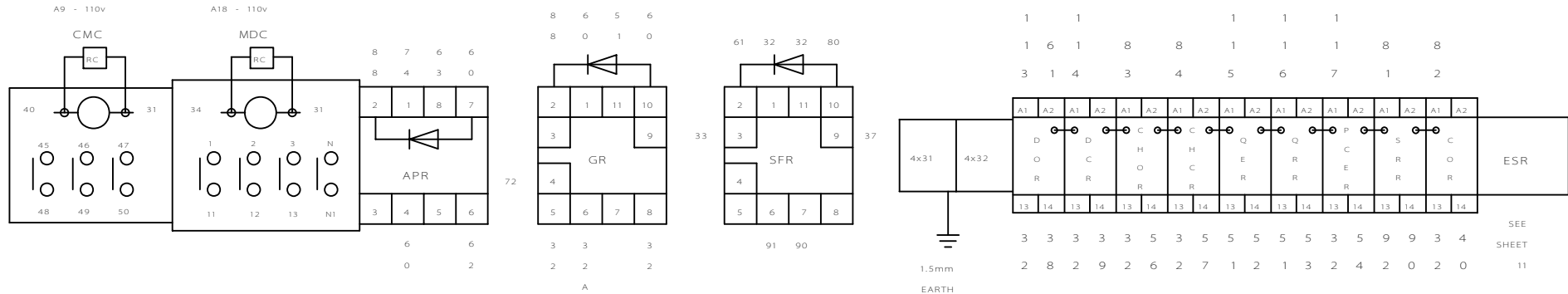
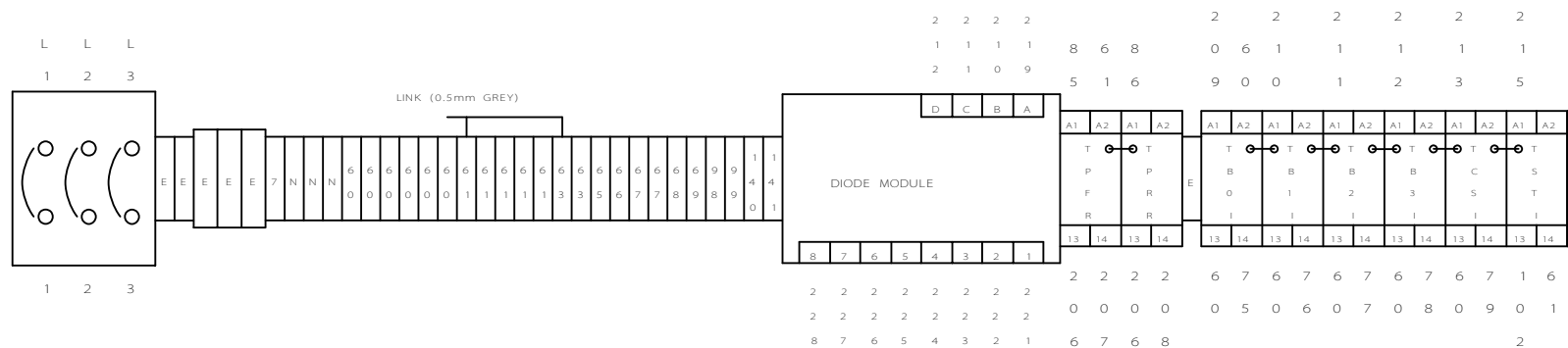
DRN BY

A MCHENRY

DATE

19-9-95

SR-07C



F1 3.15 A MONITOR
 F2 3.15 A 24v PSU
 F3 6.3 A TOOLPOST DRIVE
 F4 6.3 A 110v CONTROL
 ALL FUSES T TYPE

THERMAL TRIP AND EARTH TERMINALS
 SEE SHEET 13

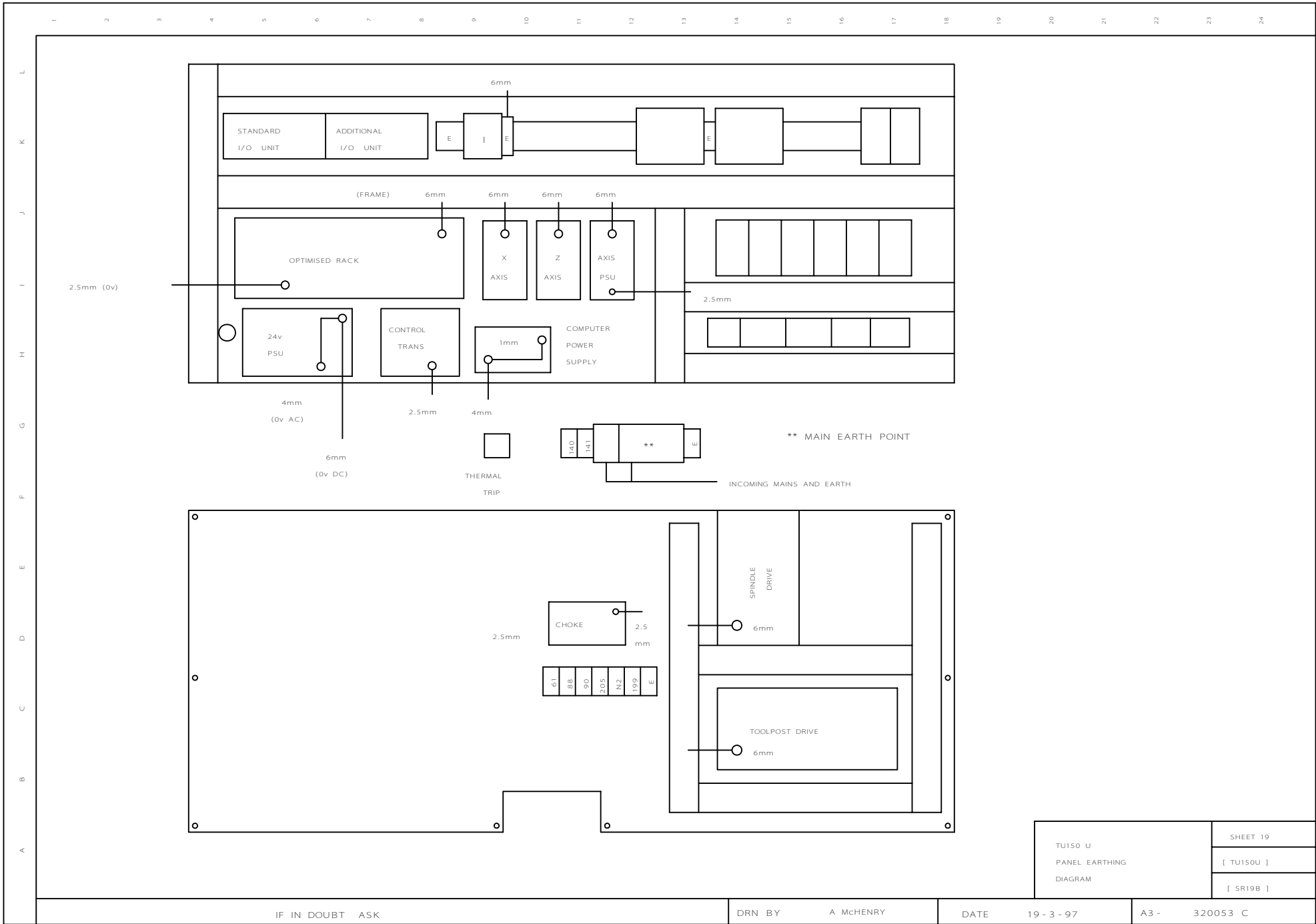
TU150 U RELAY WIRING DETAILS DMS TURRET (BALDOR DRIVES)	SHEET 7
	[TU150U]

IF IN DOUBT ASK

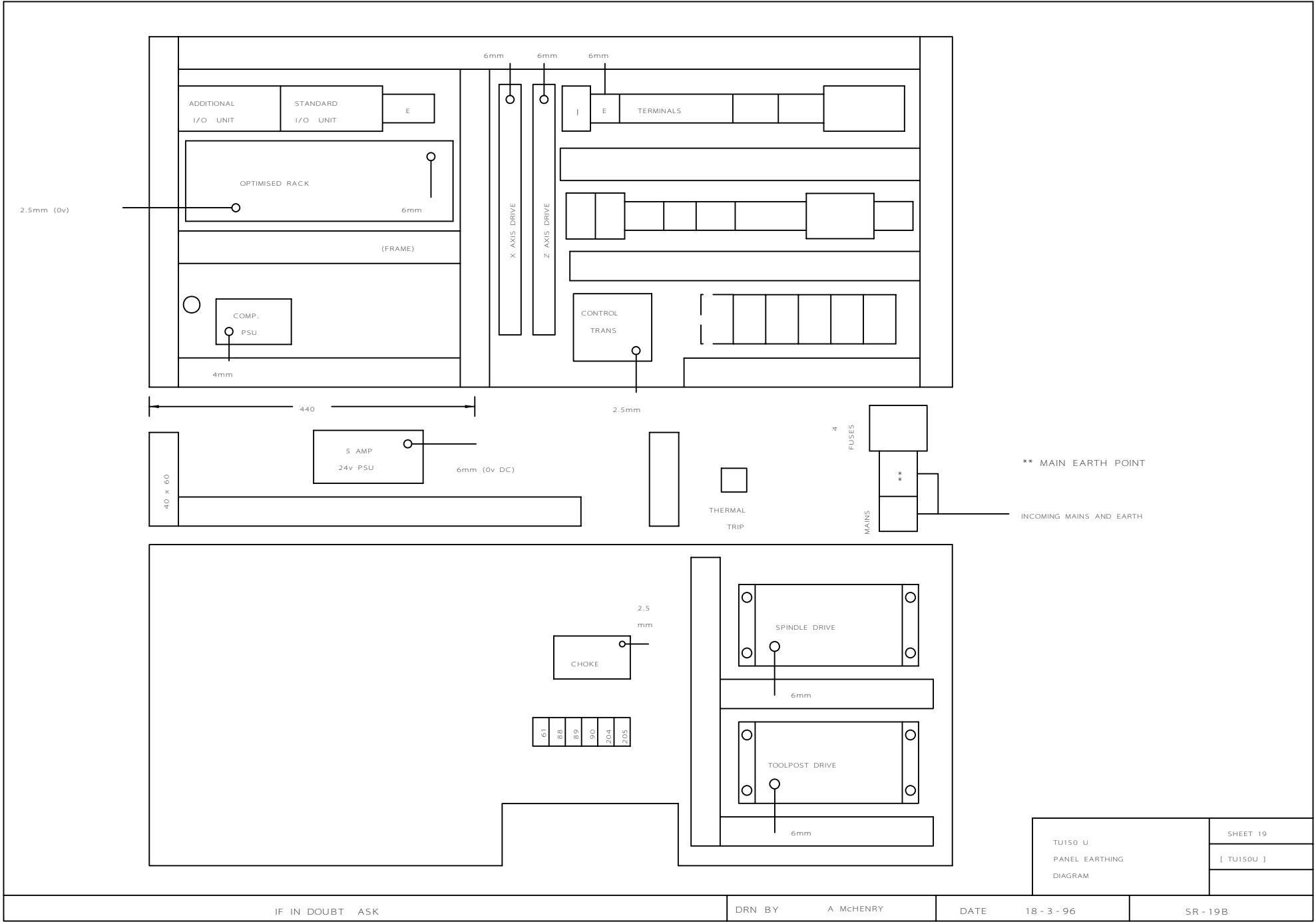
DRN BY A MCHENRY

DATE 26 - 4 - 96

SR - 07E



TU150 U PANEL EARTHING DIAGRAM	SHEET 19
	[TU150U]
	[SR19B]



IF IN DOUBT ASK

DRN BY A MCHENRY

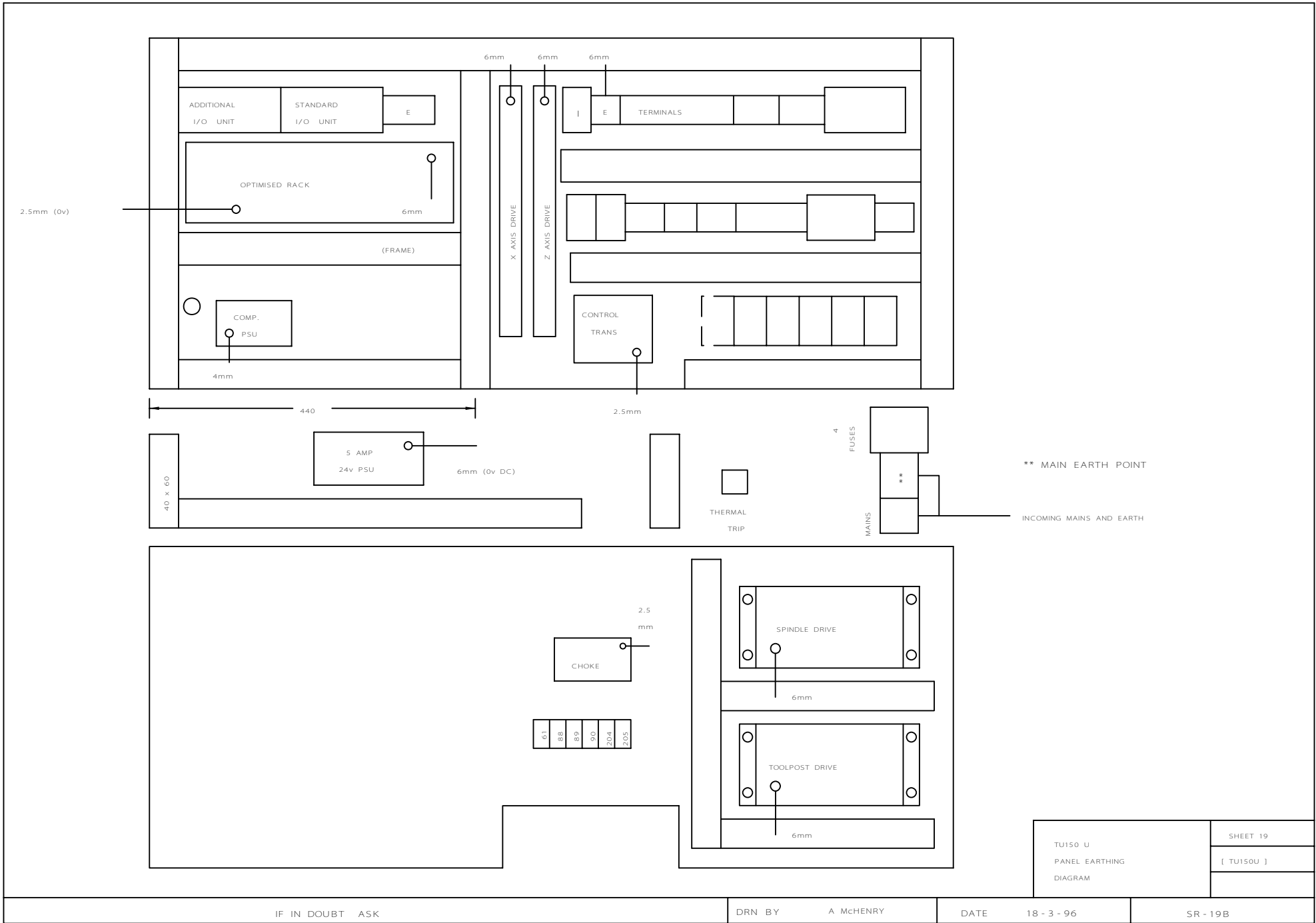
DATE 18 - 3 - 96

SR - 19B

TU150 U
PANEL EARTHING
DIAGRAM

SHEET 19

[TU150U]



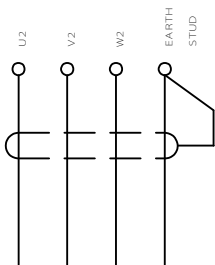
IF IN DOUBT ASK

DRN BY A MCHENRY

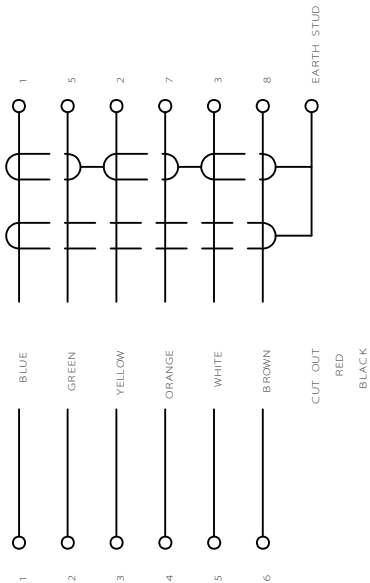
DATE 18 - 3 - 96

SR - 19B

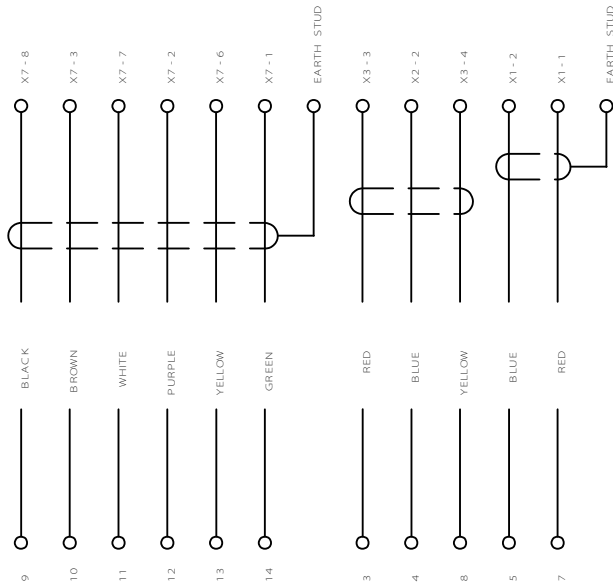
MOTOR
POWER
CONNECTOR



MOTOR
RESOLVER
CONNECTOR



RACK
AXIS
CONNECTORS



15 WAY
D TYPE
MALE

AXIS 0 = X AXIS
AXIS 1 = Z AXIS

TU150 U AXIS MOTOR POWER AND DRIVE SIGNALS	SHEET 23
	[TU150U]

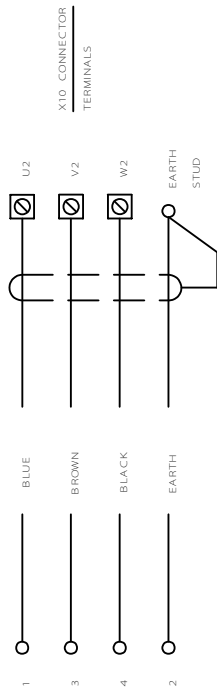
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DRN BY A MCHENRY

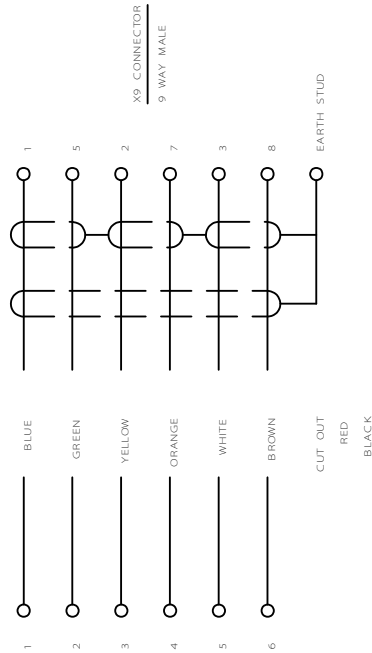
DATE 18 - 3 - 96

SR - 23

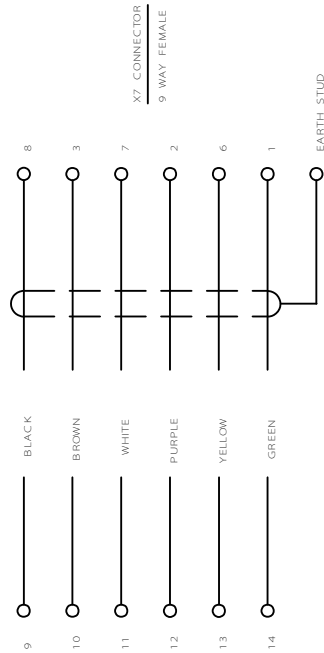
MOTOR
POWER
CONNECTOR



MOTOR
RESOLVER
CONNECTOR

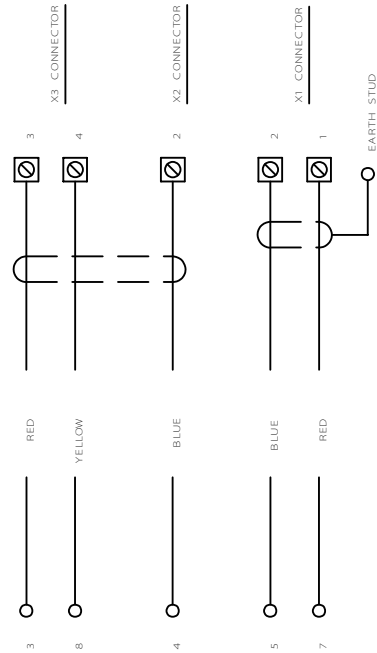


RACK
AXIS
CONNECTORS



15 WAY MALE

AXIS 0 || X AXIS
AXIS 1 || Z AXIS



TU150 U
AXIS MOTOR POWER
AND DRIVE SIGNALS

SHEET 23
[TU150U]

IF IN DOUBT ASK

DRN BY A MCHENRY

DATE 30 - 4 - 96

SR - 23A