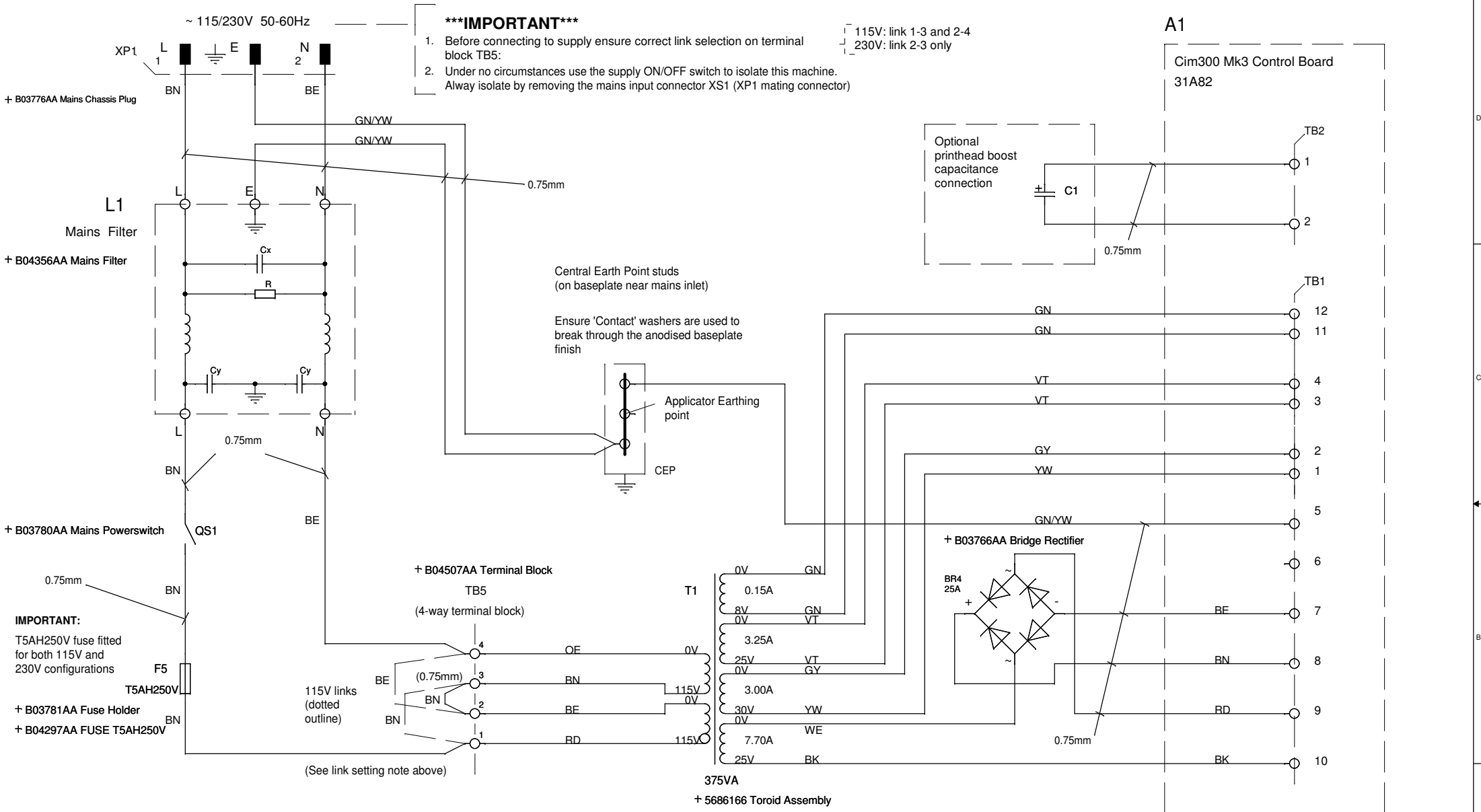


CIMJET 300

DISPENSER ELECTRICAL SCHEMATICS



All wire: Tri-rated 105°C 600V VW-1 0.75mm² (except T1 transformer wires)

REV	DESCRIPTION	DATE	ACTND	APPVD
A	FIRST ISSUE	25/06/01	IS	
B	ECO123, ECR5940, add solenoid cable lengths	19-09-02	AB	
C	ECO688, ECR6820, Change Beacon assy	20-02-03	AB	IS
D	ECO1299, ECR7270, add gap sensor length	08-06-04	AB	
E	ECO2006, ECR8212, Change Motor Supplier	15/04/05	AB	
EB	ECO-MTL10534, Change Cim300 Dispenser Wiring Diagram	24/02/06	KJH	

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Title

CIM300 MK3 DISPENSER WIRING SCHEMATIC

Size

A3

Document Number

5550391

Rev

EB

Date:

Monday, March 06, 2006

Sheet

1 of 3

RANGE	SWITCH NO.	PRINthead VOLTS	PRINthead RESISTANCE RANGE (Ohms)				
			160/12 CE	107/12 CE	107/12 FLAT	104/8 FLAT	152/8 FLAT
LO RANGE	0	15.38	n/a	n/a	n/a	n/a	n/a
	1	15.69	n/a	n/a	n/a	n/a	n/a
	2	15.99	n/a	n/a	n/a	n/a	n/a
	3	16.30	n/a	n/a	n/a	n/a	n/a
	4	16.61	n/a	n/a	n/a	n/a	n/a
	5	16.92	n/a	n/a	n/a	517 to 537	n/a
	6	17.23	n/a	n/a	n/a	538 to 558	n/a
	7	17.54	n/a	n/a	n/a	559 to 577	n/a
	8	17.81	n/a	n/a	n/a	578 to 598	n/a
	9	18.12	n/a	n/a	n/a	599 to 620	n/a
	A	18.43	n/a	n/a	n/a	621 to 642	n/a
	B	18.74	n/a	n/a	n/a	643 to 665	n/a
	C	19.04	n/a	n/a	n/a	666 to 689	561 to 580
	D	19.35	n/a	n/a	n/a	690 to 712	581 to 599
	E	19.66	n/a	n/a	n/a	713 to 738	600 to 619
HI RANGE	F	19.97	n/a	n/a	n/a	n/a	620 to 639
	0	19.84	n/a	n/a	n/a	n/a	n/a
	1	20.26	n/a	n/a	1055 to 1098	n/a	640 to 664
	2	20.67	n/a	n/a	1099 to 1145	n/a	665 to 684
	3	21.09	n/a	n/a	1146 to 1194	n/a	685 to 778
	4	21.50	n/a	n/a	1195 to 1241	n/a	n/a
	5	21.91	n/a	n/a	1242 to 1290	n/a	n/a
	6	22.33	1071 to 1111	1071 to 1111	1291 to 1340	n/a	n/a
	7	22.74	1112 to 1150	1112 to 1150	1341 to 1387	n/a	n/a
	8	23.10	1151 to 1190	1151 to 1190	1388 to 1435	n/a	n/a
	9	23.51	1191 to 1234	1191 to 1234	1436 to 1489	n/a	n/a
	A	23.93	1235 to 1278	1235 to 1278	n/a	n/a	n/a
	B	24.34	1279 to 1323	1279 to 1323	n/a	n/a	n/a
	C	24.76	1324 to 1369	1324 to 1369	n/a	n/a	n/a
	D	25.17	1370 to 1416	1370 to 1416	n/a	n/a	n/a
	E	25.59	1417 to 1465	1417 to 1465	n/a	n/a	n/a
	F	26.00	n/a	n/a	n/a	n/a	n/a

PROCEDURE

1. CHECK PRINthead TYPE.
2. SELECT RANGE WITH LK10, POSITIONS 'HI' AND 'LO'.
3. SELECT SW2 HEX SWITCH POSITION FOR PRINthead RESISTANCE.
4. ENSURE PRINthead CABLE MATCHES THE PRINthead FITTED.

REV	DESCRIPTION	DATE	ACTND	APP'VD
A	FIRST ISSUE	25/06/01	IS	
B	ECO123, ECR5940, add solenoid cable lengths	19-09-02	AB	
C	ECO688, ECR6820, Change Beacon assy	20-02-03	AB	IS
D	ECO1299, ECR7270, add gap sensor length	08-06-04	AB	
E	ECO2006, ECR8212, Change Motor Supplier	15/04/05	AB	
EB	ECO-MTL10534, Change Cim300 Dispenser Wiring Diagram	24/02/06	KJH	

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Title

Cim300 Dispenser Wiring

Size A3

Document Number 5550391

Rev EB

Date: Monday, March 06, 2006

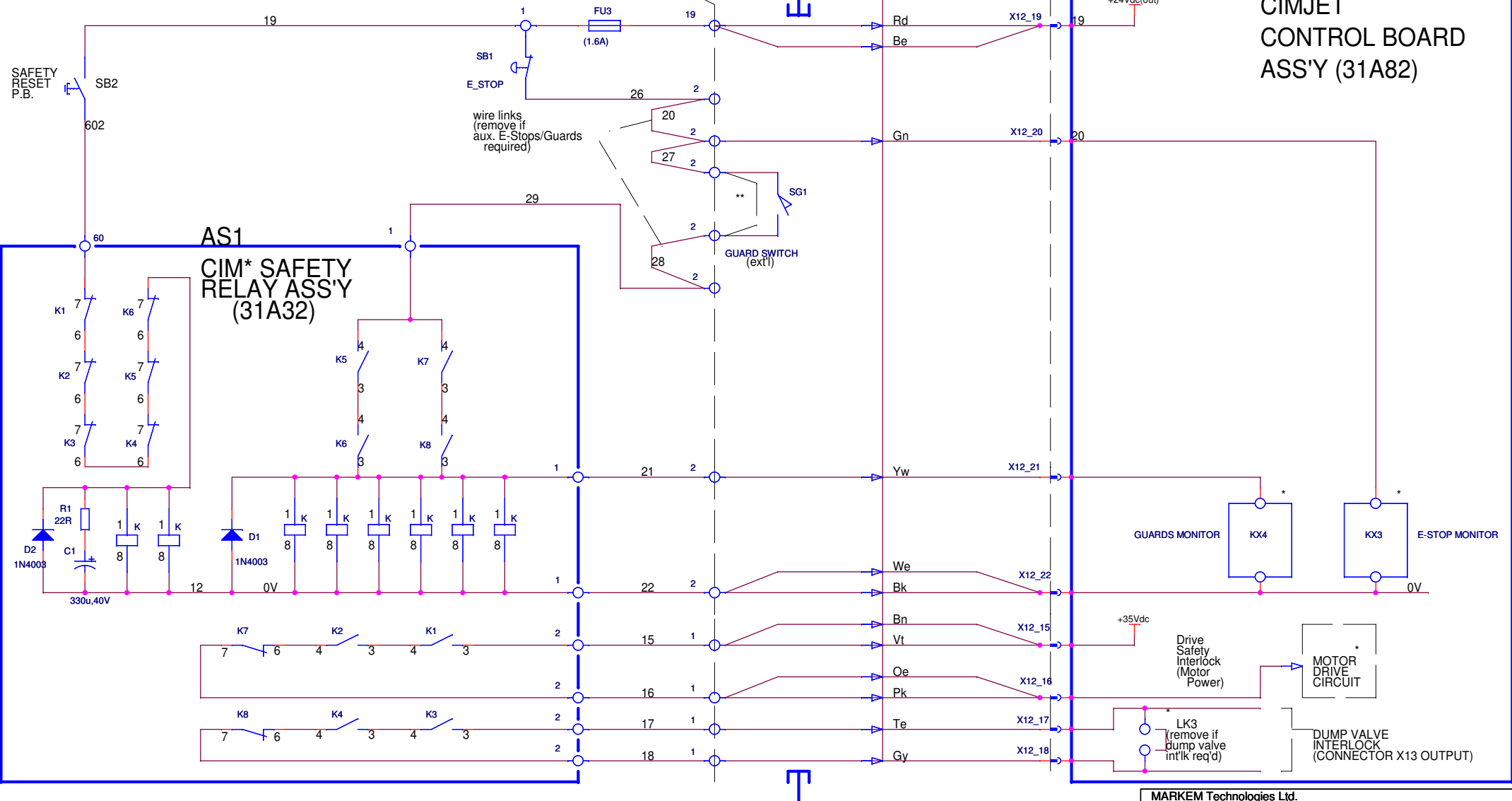
Sheet 3 of 3

** - Link required if
no guard switch
fitted.

W1
36 x 0.22
(7-2-36C)

- Notes:
1. Wire colours: 1st colour- background 2nd colour- tracer
 2. All wires blue 0.75sqmm unless otherwise specified
 3. Cable ass'y W1: screen to be terminated to the case at both ends (360deg. contact)
 4. Case AC1 and D-type connector shell to be metal

AC1 EXT'L I/O AND SAFETY MODULE



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Title CIM300 EXTERNAL I/O AND SAFETY OPTION SCHEM.			
Size A3	Document Number 31056BA		Rev B
Date: Monday, June 14, 2004		Sheet	1 of 2

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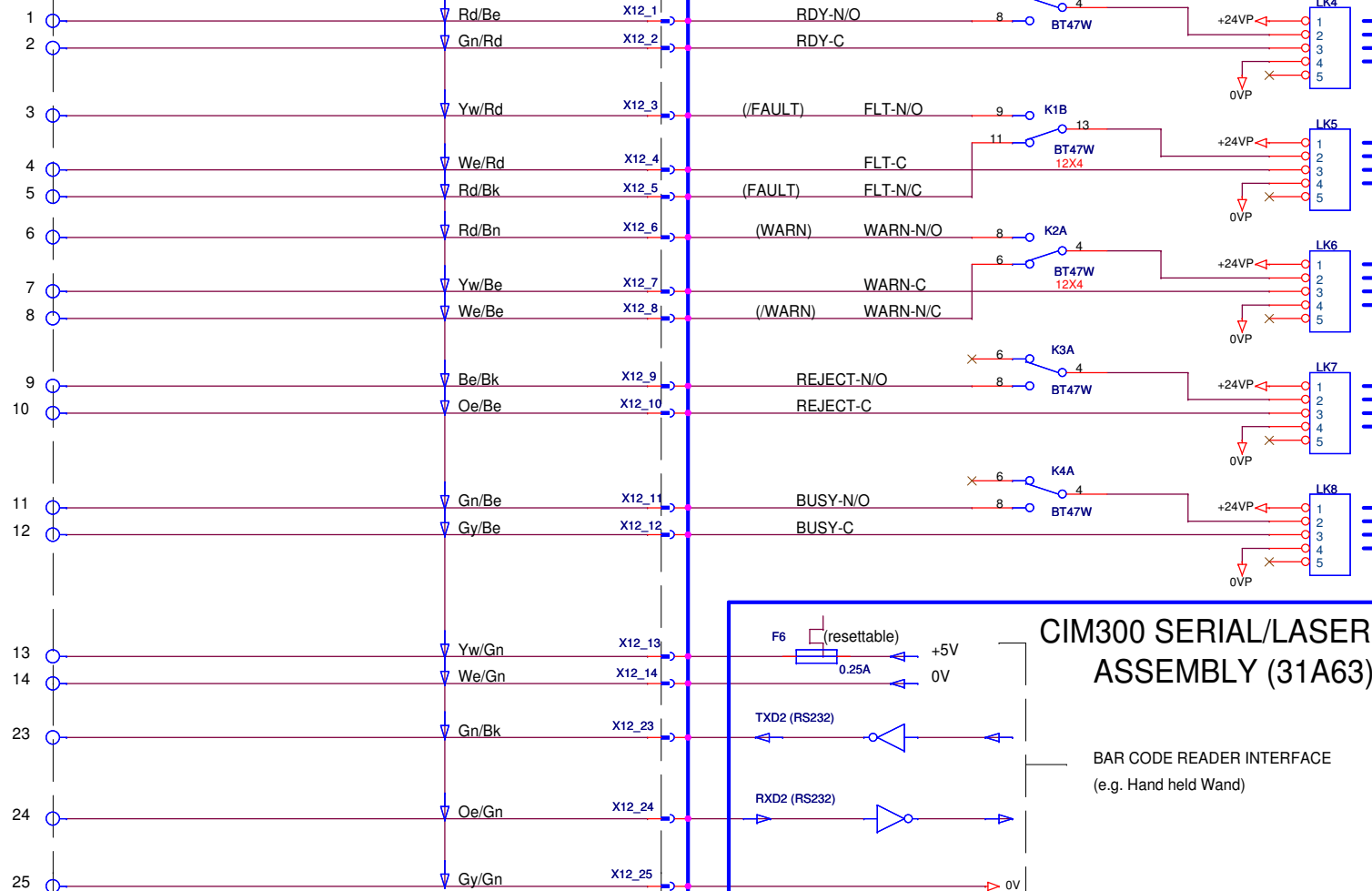
CIMJET
CONTROL BOARD
ASS'Y (31A82)

AC1
EXT'L I/O AND
SAFETY MODULE

XT1
KLIPPON
CONNECTORS

W1
36 x 0.22
(7-2-36C)

X12
I/O CONNECTOR
(25W-D SKT)



metal cable
gland

Notes:

- Wire colours: 1st colour- background
2nd colour- tracer
- All wires blue 0.75sqmm unless
otherwise specified
- Cable ass'y W1: screen to be terminated to case
at both ends (360deg. contact)
- Case AC1 and D-type connector shell
to be metal

CIM300 SERIAL/LASER
ASSEMBLY (31A63)

BAR CODE READER INTERFACE
(e.g. Hand held Wand)

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NG7 2RF

File
CIM300 EXTERNAL I/O OPTION SCHEM.

Size
A3 Document Number
31056BA

Date: Monday, June 14, 2004

Sheet 2 of 2

Rev
B

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REV	DESCRIPTION	DATE	ACT'ND	APP'VD
1	FIRST ISSUE	05/02/96	KB	
B	Reference to Control Board changed to 31A82 (from 31A23)	14/06/04	IS	

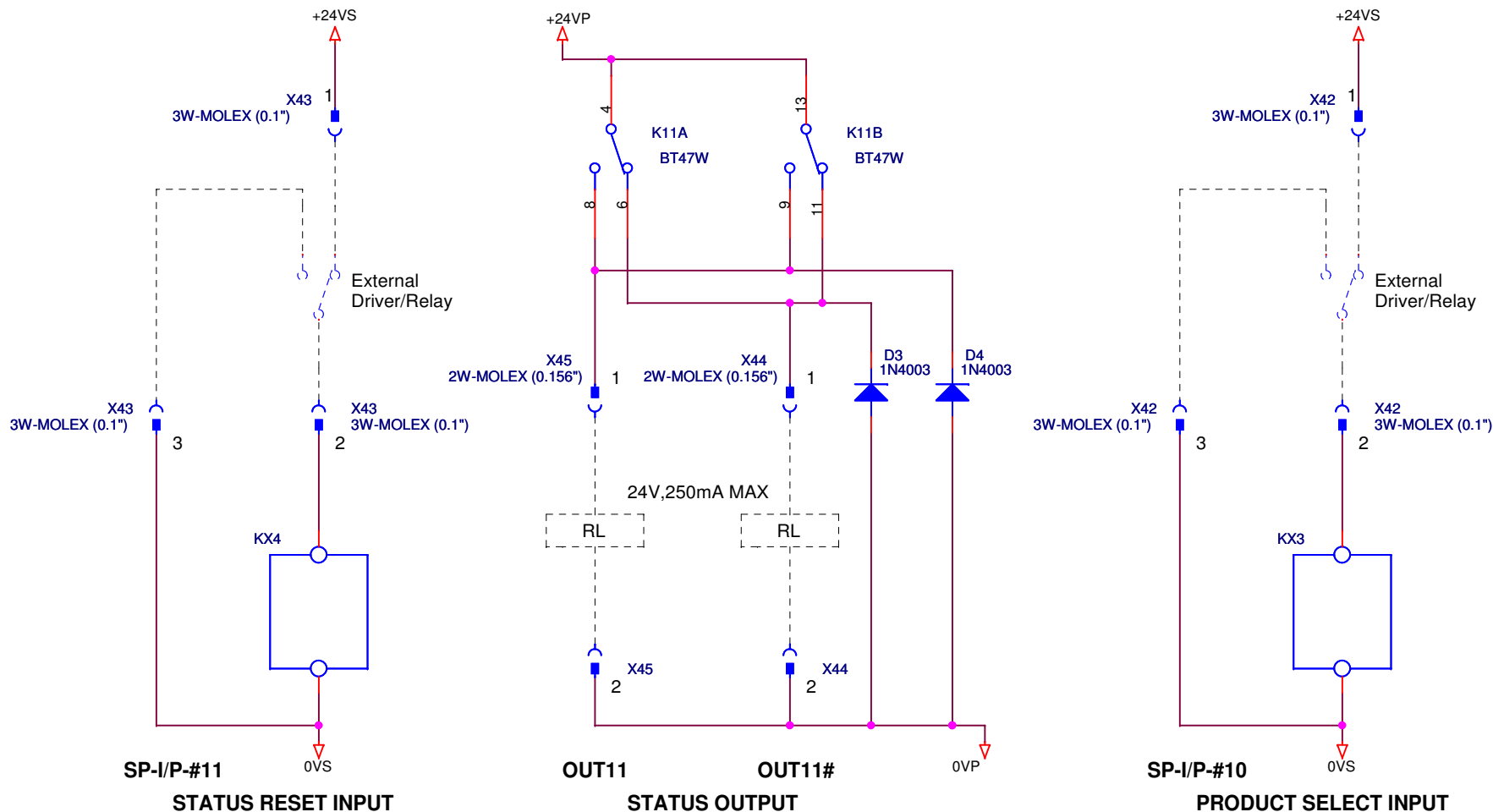
5

4

3

2

1



NOTE: Components shown by solid lines are located on the 31A63A Serial /Laser Board Assembly (31026BA schematic).

These I/O signals are not available on external connectors, connections will have to be added as appropriate for the installation.

REV	DESCRIPTION	DATE	ACT'ND	APP'VD
A	FIRST ISSUE	25-06-01	AB	
B	ECO106, ECR5957, add product select input to drawing	13/09/01	AB	IS

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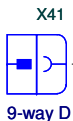
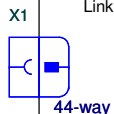
Markem Technologies Ltd.		
Alexander Fleming Building Nottingham Science and Technology Park University Boulevard, Nottingham NG7 2RF Tel. +44 (0)115 9430055		
Title Cimjet 300 Status I/O + Product Select I/P Connections		
Size A4	Document Number 5550384	Rev B
Date: Tuesday, September 18, 2001	Sheet 1	of 1

Cimjet300 Unit

31A82 Control Board

31A63 Serial Laser Board

LK11 = +24V:
Link: 1-2 & 3-4



X41 - RS-232 Comms

Pin	Function
2.	RS-232 - RXD
3.	RS-232 - TXD
5.	0 V (isolated)

X23 Product Sensor Connector

Pin	Function
4	+24 V
5	Laser Gate Input
6	0V



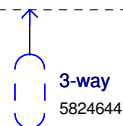
X7 Scanner Connector

Pin	Function
1	+24 V
2	TXD Programming
3	RXD Programming
5	0V
10	TXD Host
11	RXD Host
13	LAS-G-RD
14	LAS-G-OUT-N/O
15	LAS-G-OUT-COM



Scanner Set-up Configuration

Not required for normal operation

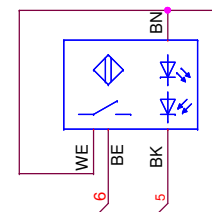


Personal Computer

COM1

SICK CLV431
Set-up Application

9-way D



CLV431 Laser Scanner Kit - 36173BA

Kit also includes bracket and
31A63 Serial Laser Board

SICK CLV431 Laser Scanner
(B05343AA)

15-way HDD



SICK CLV431 Scanner Connector

Pin	Function
1	+24 V
2	TXD Programming
3	RXD Programming
5	0V
10	RXD Host
11	TXD Host
13	LAS-G-RD
14	LAS-G-OUT-N/O
15	LAS-G-OUT-COM

B05344AA - 6" Alternative Crossover Extension

5825274

REV	DESCRIPTION	DATE	ACT'ND	APP'VD
AA	FIRST ISSUE, MTL19255	30/11/06	AWB	<App'vd1>

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HIGHFIELDS SCIENCE PARK
UNIVERSITY BOULEVARD
NOTTINGHAM NG7-2QN 0115 9430055

Title
CIM300 SICK CLV431 WIRING SCHEMATIC.

Size
A3

Document Number

10022156

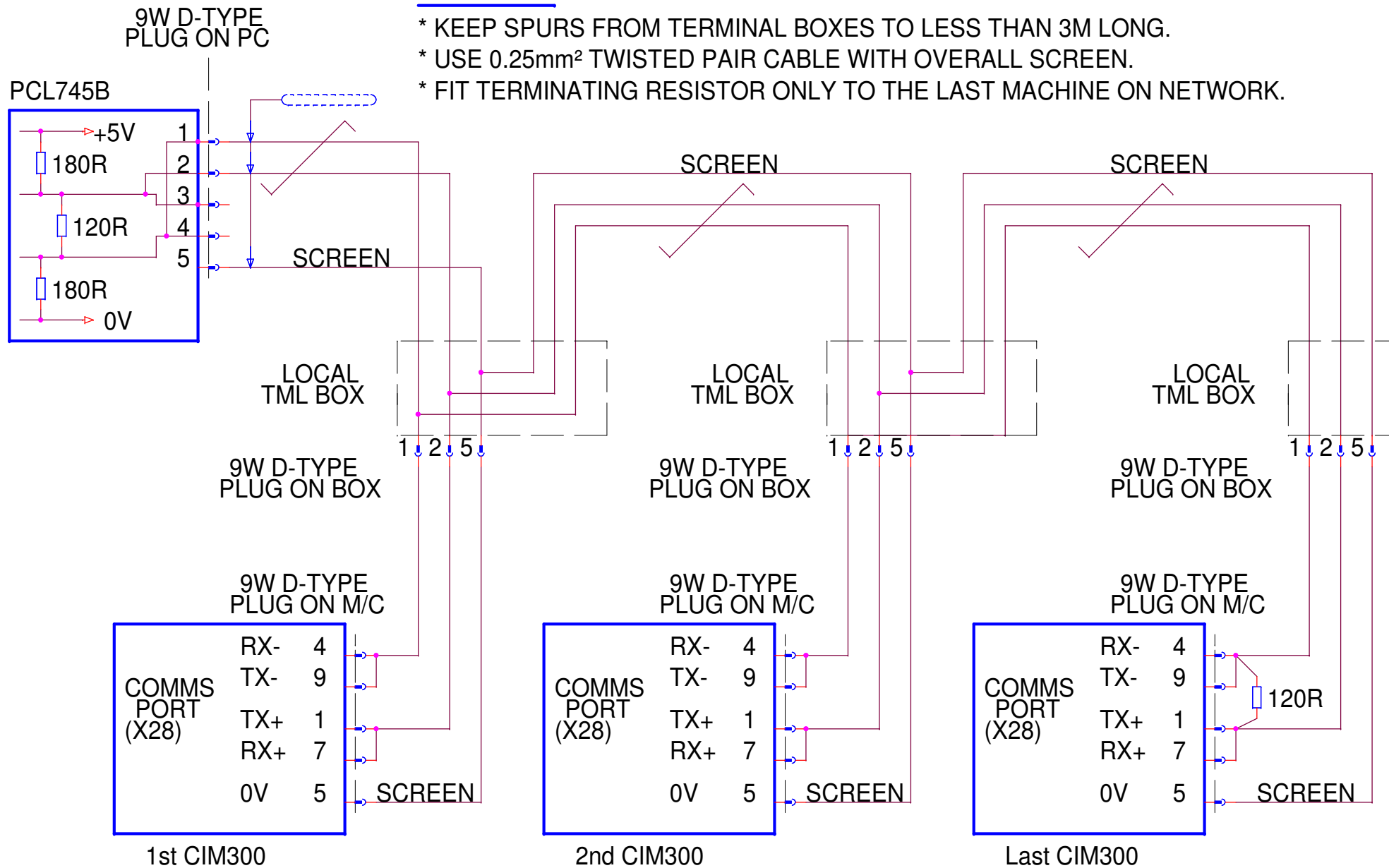
Rev
AA

Date: Friday, December 01, 2006

Sheet 1 of 1

NOTE :

- * KEEP SPURS FROM TERMINAL BOXES TO LESS THAN 3M LONG.
- * USE 0.25mm² TWISTED PAIR CABLE WITH OVERALL SCREEN.
- * FIT TERMINATING RESISTOR ONLY TO THE LAST MACHINE ON NETWORK.



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HIGHFIELDS SCIENCE PARK
UNIVERSITY BOULEVARD
NOTTINGHAM NG7-2QN 0115 9430055

Title
CIM300 RS485 NETWORK SCHEMATIC

Size
A3 Document Number
31058B

Date: Wednesday, March 15, 2000

Sheet 1 of 1

Rev
A2

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REV	DESCRIPTION	DATE	ACT'ND	APP'VD
A1	INITIAL RELEASE	06/02/96	KH	
A2	TEXT SIZE INCREASED FOR MANUAL USE. MARKEMISED.	16/04/97	KH	