Doc Type:

Doc Group:

BAR = 25mm AT PLOT SCALE

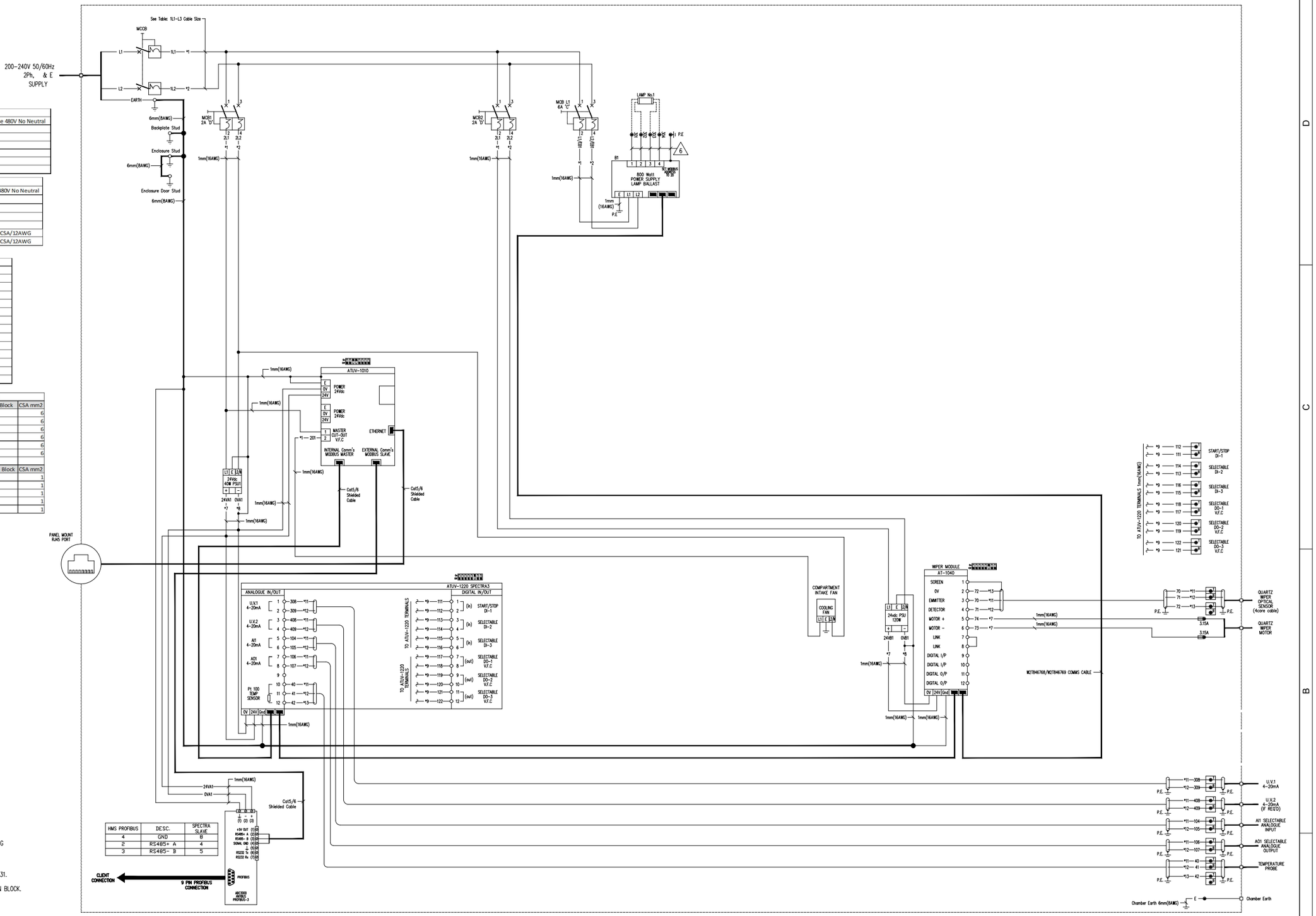
STD:297x420_A3 v1.4

MCCB ISOL Size				
System	1&2 Phase 200-240V	3Phase 380-440V with Neutral	3Phase 380-440V No Neutral	3Phase 480V No Neutral
1x800	10A	NA	NA	NA
2X800	15A	NA	NA	NA
3x800	25A	NA	NA	NA
4x800	30A	NA	NA	NA
6x800	40A	16A	16A	16A
8x800	NA	25A	25A	20A

1L1-1L3 Cable Size				
System	1&2 Phase 200-240V	3Phase 380-440V with Neutral	3Phase 380-440V No Neutral	3Phase 480V No Neutral
1x800	2.5mm2 CSA/12AWG	NA	NA	NA
2X800	2.5mm2 CSA/12AWG	NA	NA	NA
3x800	2.5mm2 CSA/12AWG	NA	NA	NA
4x800	4mm2 CSA/10AWG	NA	NA	NA
6x800	6mm2 CSA/8AWG	2.5mm2 CSA/12AWG	2.5mm2 CSA/12AWG	2.5mm2 CSA/12AWG
8x800	NA	2.5mm2 CSA/12AWG	2.5mm2 CSA/12AWG	2.5mm2 CSA/12AWG

Conductor Insulation Colour		
Ref	Number	RoW
L1	*1	Brown
L2	*2	Black
L3	*3	Grey
3*N	*4	Blue
230V	*5	Red
1*N	*6	Light Blue
24v	*7	Dark Blue
0v	*8	Violet
IP/OP	*9	Yellow
Earth	*10	Green & Yellow
I/O Cable	*11	White
I/O Cable	*12	Brown
I/O Cable	*13	Green

Earth Cable Sizing Table	
Enclosure Metal Parts to Protective Earth Block	CSA mm2
Enclosure Body to PE	6
Removable Side Panels to PE	6
Backplate to PE	6
Gland Plates to PE	6
Fuse Switch Bracket to PE	6
Removable Door to PE	6
Electrical Components to Protective Earth Block	CSA mm2
Spectra Components	1
Enclosure and Door Mounted Fans	1
Anti-Condensation Heater	1
PSU	1
Wiper Board	1



HMS PROFIBUS	DESC.	SPECTRA SLAVE
4	GND	8
2	RS485+ A	4
3	RS485- B	5

NOTES:

1. WARNING: ALWAYS SELECT THE ELECTRONIC BALLAST ADDRESS BEFORE INSTALLING INTO PANEL AND BEFORE THE SUPPLY TO THE BALLAST IS SWITCHED ON.
2. MAINTAIN SHORT TAIL CUTBACK LENGTHS.
3. ALL CAT-5e/6A DATA CABLES TO BE SHIELDED TYPE.
4. NO MORE THAN 2 CONDUCTORS CONNECTED TO ONE SIDE OF A TERMINAL.
5. NOTE NOT REQUIRED.
6. TERMINATE INTERNAL LAPP OLFLEX LAMP CABLE EARTH TO BALLAST MOUNTING PLATE USING RING TERMINAL AND OTHER SIDE TO EARTH TERMINAL. USE CABLE: Lapp Cable Olflex 150H05VV-F 5core 2.5mm CSA
7. UNLESS OTHERWISE NOTED, ALL SINGLE CORE CABLE TO BE TRI-RATED BS6231.
8. ON 16x800W & 30x800W PANELS, RUN ALL NEUTRALS BACK TO DISTRIBUTION BLOCK.
9. NOTE NOT REQUIRED.

REV	DESCRIPTION	DATE	DWN	CKD	APPD	ECN
F	BUSBAR REMOVED	14.07.23	MS	JE	MP	
E	BUSBAR ADDED	30.01.23	MS	JE	MP	ECN0203
D	ANALOGUE TERMINALS UPDATED	05.01.23	M.S	J.E	M.P	ECN0194
C	MCCB DETAILS ADDED TO SCHEMATIC	23.06.22	MS	JE	MP	
B	0V CONDUCTOR COLOUR UPDATED TO VIOLET	13.05.22	MS	JE	MP	ECN0131
G	ANYBUS MODULE GRAPHICS UPDATED TO REFLECT CURRENT COMPONENT	15.05.24	MS	MP	MP	ECN0229

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DWN BY: MS	DATE 26.08.21
CKD BY: JE	DATE 26.08.21
APPD BY: MP	DATE 26.08.21
MGD BY:	SCALE NTS
PART NUMBER	

TITLE: ES_1X800_H03353_06E1_1
CONTROL PANEL
ELECTRICAL SCHEMATIC

CLIENT

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PROJ/PROD NUMBER	CODE	FILE/DRAWING NUMBER	SHEET	REV
	EC-DOS01	ES_1X800_H03353_06E1_1	1 OF 1	G