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

MCCB ISOL Size 690V	
System	MCCB Size
1x1500	10A
1x2500	15A
2x1500	15A
2x2500	15A
2x3000	15A
4x3000	30A

1L1-1L3 Cable Size 690V		
System	Cable Size (Cross Sectional Area)	Cable Size (AWG)
1x1500	2.5mm2	12
1x2500	4mm2	10
2x1500	4mm2	10
2x2500	4mm2	10
2x3000	4mm2	10
4X3000	6mm2	8

Transformer TX1 KVA	
1x1500	2.5kVA
1x2500	4.5kVA
2x1500	4.5kVA
2x2500	12.5kVA
2x3000	12.5kVA
4x3000	25kVA

2L1-2L2 Cable Size 415V		
System	Cable Size (Cross Sectional Area)	Cable Size (AWG)
1x1500	2.5mm2	12
1x2500	4mm2	10
2x1500	4mm2	10
2x2500	4mm2	10
2x3000	4mm2	10
4x3000	6mm2	8

MCB EB1-EB4 Sizes				
System	MCB EB1	MCB EB2	MCB EB3	MCB EB4
1x1500	6A	NA	NA	NA
1x2500	10A	NA	NA	NA
2x1500	16A	NA	NA	NA
2x2500	10A	10A	NA	NA
2x3000	16A	16A	NA	NA
4x3000	16A	16A	16A	16A

CAT-5/6 Cable PINOUT (ATUV-1040 Wiper to Ballast1 Cable Only)	
ATUV-1040 Connector PIN	4kW Ballast Connector PIN
4 (blue)	1
5 (blue/white)	2
8 (brown)	3

690V 60Hz 3Ph, & E SUPPLY

NOTES:

1. INSTRUMENT EARTH BAR TO BE BONDED TO PROTECTIVE EARTH INSIDE PANEL.

REV	DESCRIPTION	DATE	DWN	CKD	APPD	ECN
D	0V CONDUCTOR COLOUR UPDATED TO VIOLET	07.03.22	MS	JE	MP	ECN0131
C	Transformer; MCCB Isolator Size Tables Updated per ECN0054	15.09.21	MS	JE	MP	ECN0054
B	Wiper conductor colours and marker references updated	13.04.21	MS	JE	MP	ECN0051
A	Issued for Manufacture	25.09.20	MS	JE	MP	

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DWN BY: MS	DATE 25.09.20	
CKD BY: JE	DATE 25.09.20	
APPD BY: MP	DATE 25.09.20	
MGD BY:	SCALE NTS	

TITLE: ES_4x3000_H03253_46E4_2
CONTROL PANEL
ELECTRICAL SCHEMATIC

CLIENT

EVOQUA WATER TECHNOLOGIES
Genesis House, Richmond Hill Pemberton
Wigan, UK, WN5 8AA, +44 1942 216161

PART NUMBER	PROJ/PROD NUMBER	CODE	FILE/DRAWING NUMBER	SHEET	REV
		EC-DOS01	ES_4x3000_H03253_46E4_2	1 OF 1	D

Doc Type:

BAR = 25mm AT PLOT SCALE Doc Group:

STD:297x420_A3 v1.4