

Page No.	Decision December these		D = == - '			
	Drawing Description	Rev 0	Rev 0 Rev 1		Remark	
	COVER PAGE	~				
2	CONTENT	~				
3	CUT OUT AND MOUNTING DETAILS	~				
4	DESIGN SPECIFICATION	~				
5	PANEL GA LAYOUT	~				
6	SINGLE LINE DIAGRAM	~				
7	SINGLE LINE DIAGRAM	~				
8	WIRING DIAGRAM - POWER	~				
9	WIRING DIAGRAM - CONTROL	~				
10	WIRING DIAGRAM - PLC	~				
11	WIRING DIAGRAM - PLC	~				
12	WIRING DIAGRAM – TP, and ETHERNET SWITCH	<b>→</b>				
13	WIRING DIAGRAM AMPLIFIER, SDE-30, MOOG VALVE	<b>→</b>				
14	BLANK	<b>→</b>				
15	BLANK	<b>→</b>				
16	BILL OF MATERIAL	~				

John Cockerill

JOHN COCKERILL INDIA PVT. LTD. STANDARD ROLLING MILLS LTD, KENYA

3

STEERING

NA

Description STEERING SYSTEM

5

Drawing No (3)-CMIA00-20020-XX001-00

Function

P.O.No.

SOA No.

6

1000114989

A-CT20020

Item

Qty

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MRW

AMP

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21-JUL-2020

Designed

Checked

Revision

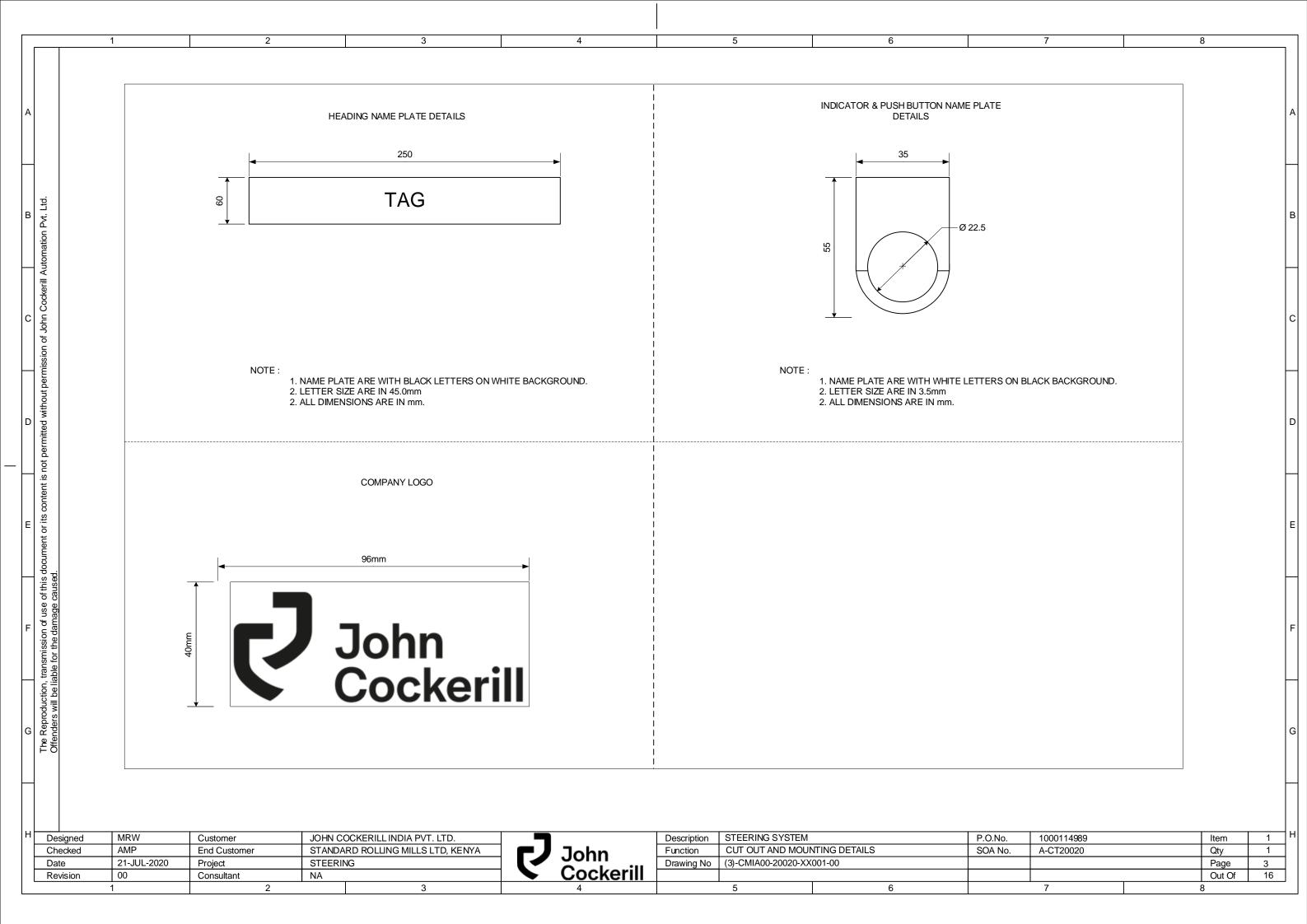
Date

Customer

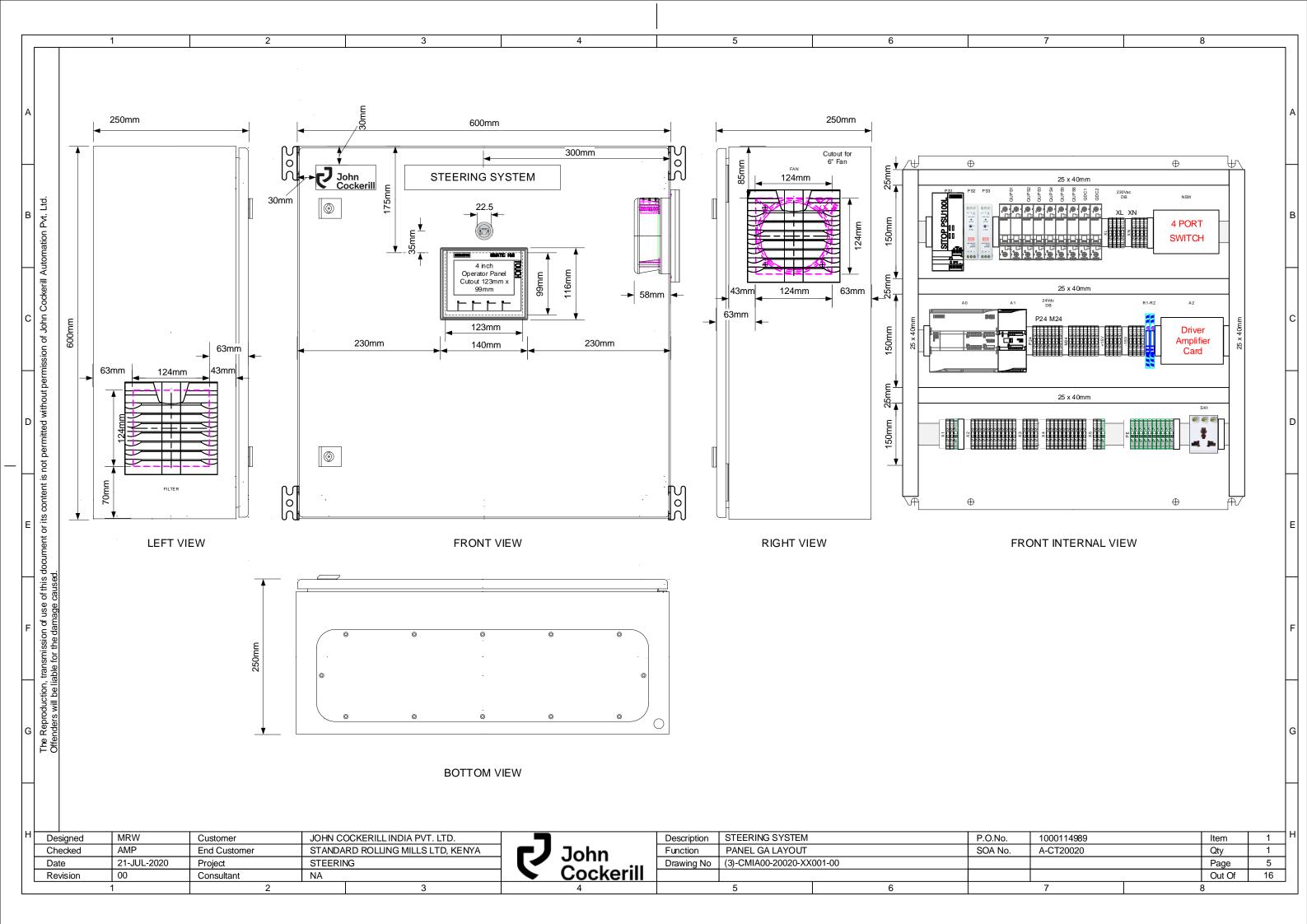
Consultant

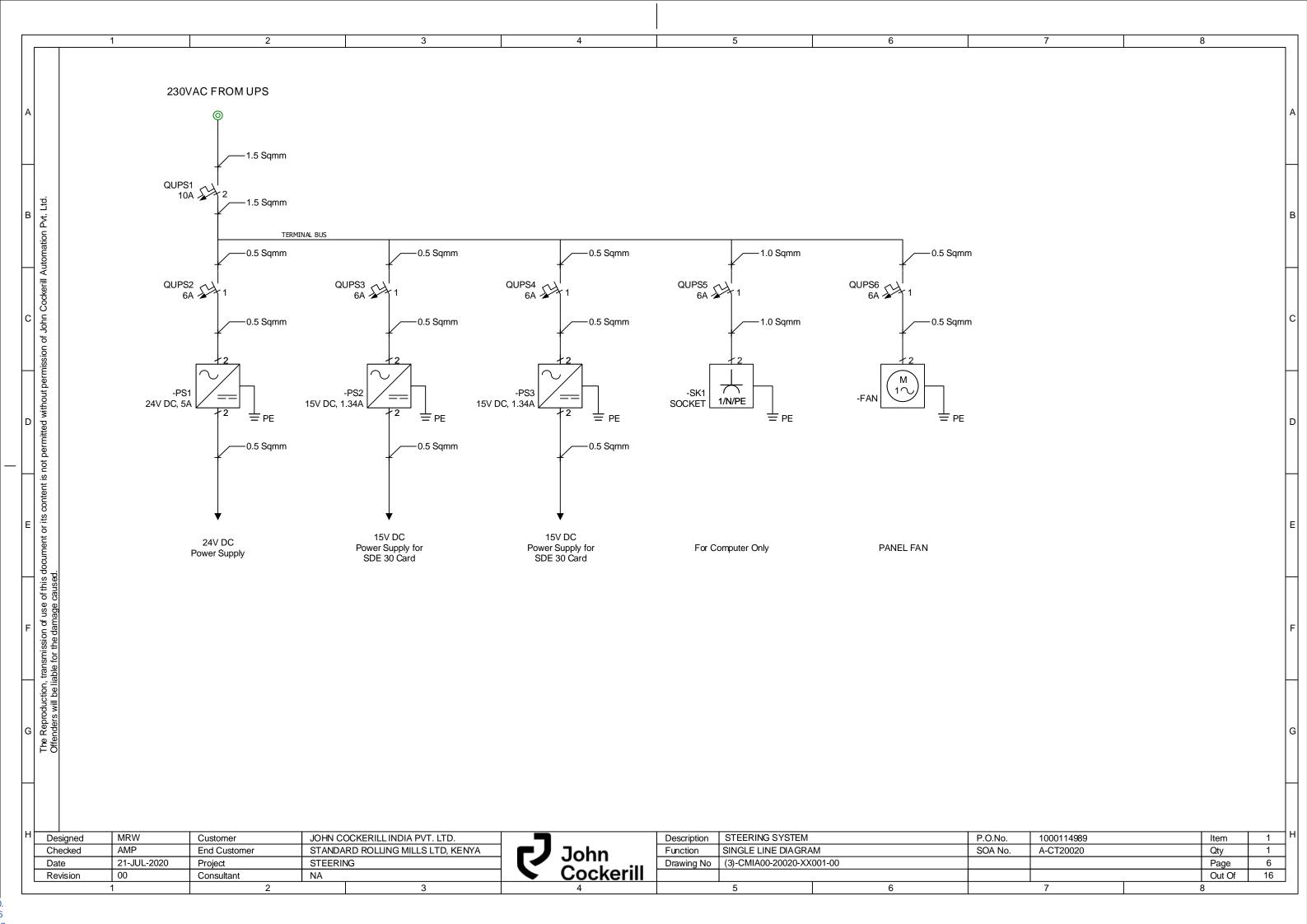
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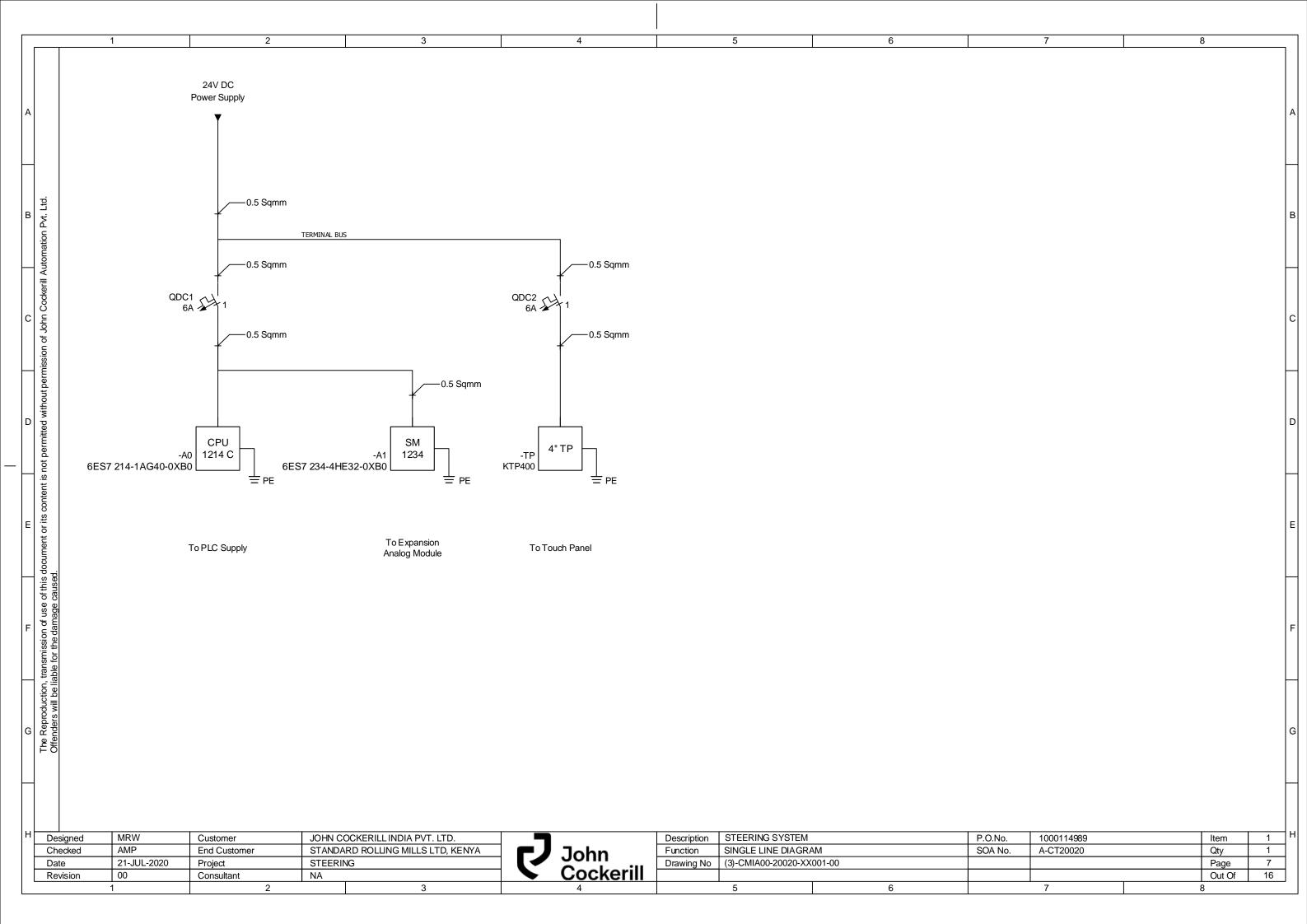
End Customer

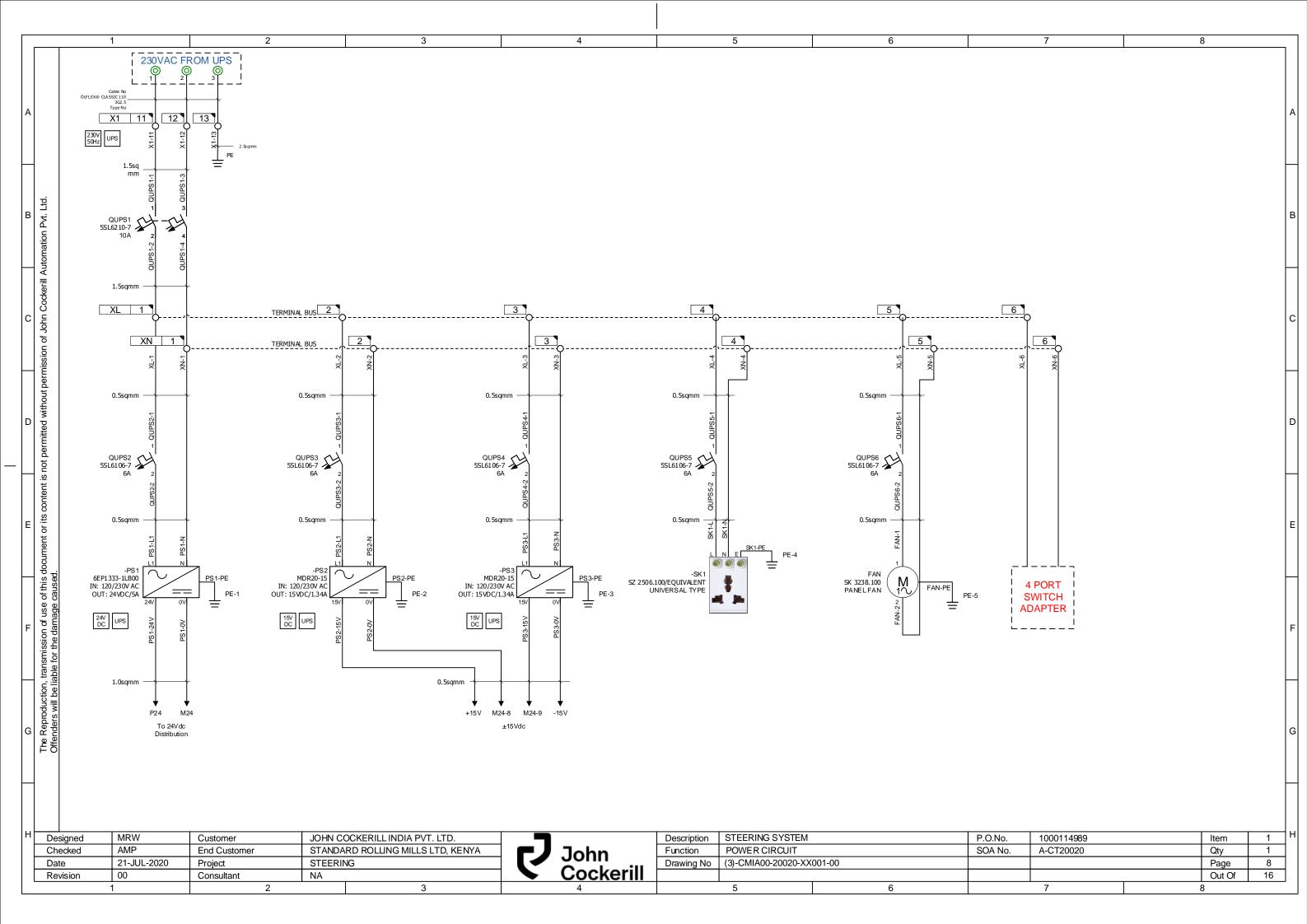


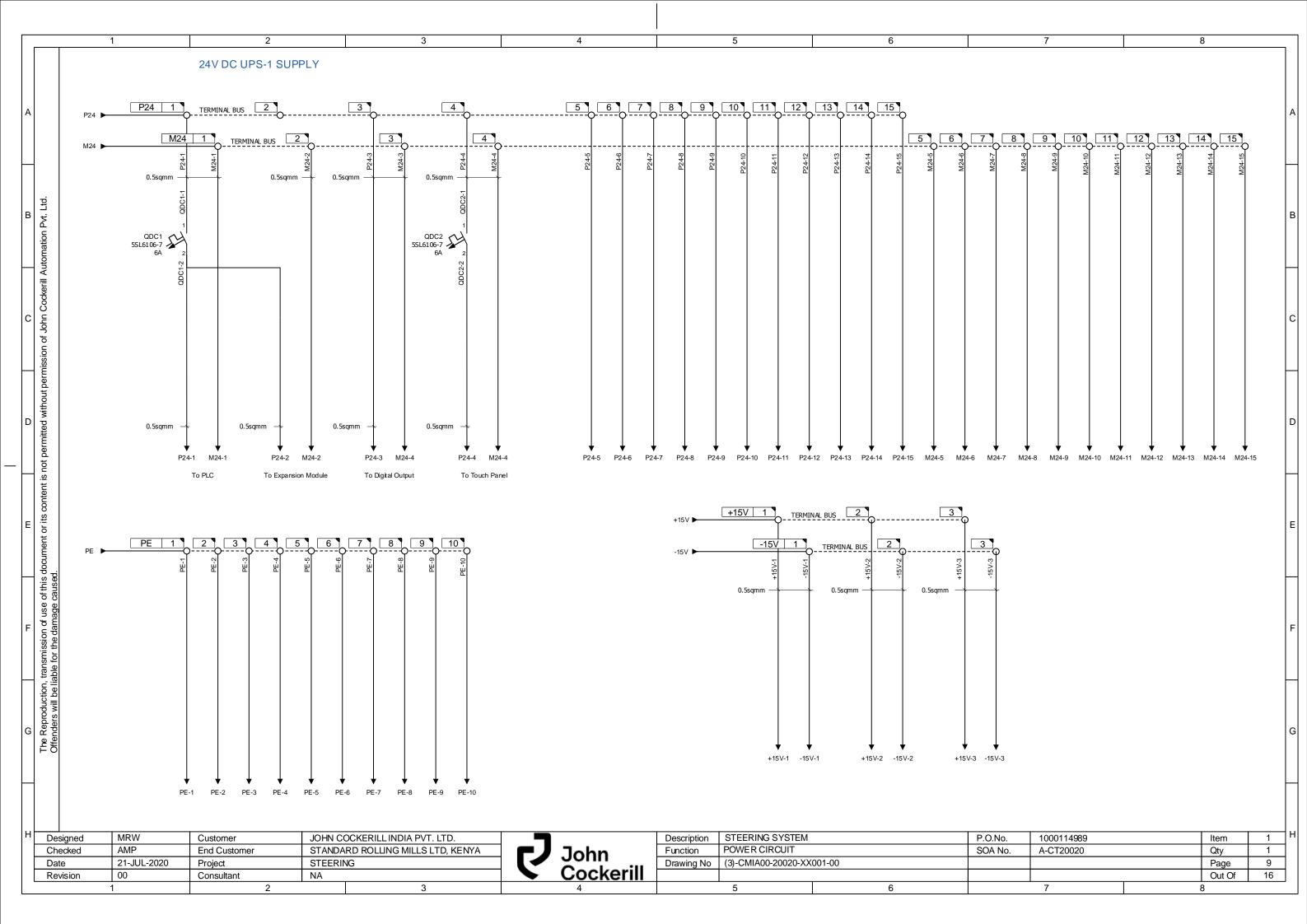
1	2	3	4		5	6	7		8
			<u>DESIGN SF</u>	PECIFICAT	TION				
1. PANEL CONSTRU	<u>JCTION</u>			<u>2. WIR</u>	ING SCHEME				
1.1 SYSTEM					2.1 WIRE SIZES AND	TYPE			
1. AM	BIENT TEMPERATURE	45 DegC			1. AC CONT	TROL VOLTAGE	1.5 sq.mm FLEXIBLE N	/ULTISTRAND Cu. CABLE	
2. ALTITUDE		<1000 Meters AB	OVE SEA LEVEL		2. DC CONT	TROL VOLTAGE	1.5 mm sq. FLEXIBLE MULTISTRAND Cu. CABLE		
3. HUMIDITY 96% NON-CONDENSATING			3. ANALOG	CHANNELS	0.2 mm sq. MULTICORE SHIELDED FLEXIBLE CABLE				
4. FAULT LEVEL 7.5kA for 1se		7.5kA for 1sec			4. DIGITAL ( 5. EARTH	CHANNELS	SINGLE CORE 0.5 sq. mm MULTISTRAND UNSHIELD COPPER 2.5 sq.mm FLEXIBLE MULTISTRAND Cu. CABLE		OPPER
5. SY	STEM SUPPLY	230Vac UPS			2.2 TERMINAL		2.5 Sq.IIIIII FLEXIBLE IV	OLTISTRAND Cu. CABLE	
					1. POWER	TERMINALS	4.0 sq.mm (GREY)		
1.2 PANEL DIM	ENSIONS (H X W X D)mm	600 (H) X 600 (W	) X 250 (D)			L TERMINALS	2.5 sq.mm (GREY)		
4.2 CONCTRU	TION				2.2 WIRE COLOUR		oq (O)		
1.3 CONSTRUC 1. TYI		WALL MOUNT				TROL VOLTAGE	PHASE :	RED	
	SE PLINTH HEIGHT	NA					NEUTRAL :	BLACK	
	SEPLINTHHEIGHT TING ANGLE	PROVIDED AT T	HE TOP				PANEL EARTH :	GREEN / YELLOW	
4. AC			D DOOR WITH CAM LOCK		2. DC CONT	TROL VOLTAGE	POSITIVE:	BLUE	
	COMMENDED MIN. CLEARANCE	AT FRONT:	1000mm				NEGATIVE:	WHITE	
		AT REAR:	NA		3. PLC I/O'S	3	DIGITAL INPUT:	24VDC – BLUE	
6. MA	XIMUM AMBIENT AIR TEMP	45°C					DIGITAL OUTPUT:	24VDC – BLUE	
7. DE	GREE OF PROTECTION	IP54					ANALAOG INPUT:	MULTICORE SHEILDED	
8. MA	TERIAL THICKNESS (MS SHEET)						ANALOG OUTPUT: MU		
	a. DOOR & FRAME	2 mm			2.3 FERRULING		WHITE/YELLOW PRIN		
	b. END COVER, PARTITION & REAR COVER	1.6 / 1.2 mm					LOCAL DEPENDENT N	MARKING METHOD	
	c. GLAND PLATE CONSTRUCTION	2 mm		<u>3. IER</u>	MINATION ARRAN				
	TURE EXTENSION	NA			3.1 POWER CABLE E		BOTTOM		
10. M	AKE	CMIA APPROVEI	D/RITTAL/ELDON		3.2 CONTROL CABLE 3.3 TYPE OF GLAND		BOTTOM UNDRILLED REMOVA		
4.4 DAINT					3.3 THE OF GLAND	PLATE	UNDRILLED REIVIOVAI	DLCITE	
1.4 PAINT	NT SHADE (INSIDE/OUTSIDE)	RAL 7032		<u>4. BUS</u>	: RAP				
	SE CHANNEL	NA		<u>4. BOO</u>	4.1 PANEL EARTH		Earthing Terminal Bus		
					,		_agaa.		
1.5 NAME PLAT	ES			<u>5. GEN</u>	IERAL				
1. CU	BICLE LABEL	BLACK LETTER (	ON WHITE BACKGROUND		5.1 LIVE PARTS		SHROUDED		
2. DE	VICE LABEL	BLACK LETTER (	ON YELLOW/WHITE BACKGROUND		5.2 DOOR EARTHING	3	PROVIDING FOR ALL	DOORS	
					5.3 SHIPPING SECTION	NC	AS SHOWN IN THE G.	A DRAWING (IF ANY)	
<u> </u>	<u></u>								
	Customer JOHN COCKERILL		୷ <b>ୁ</b> ସା	Description	STEERING SYSTEM	TION		0114989 T20020	Ite
	End Customer STANDARD ROLLI Project STEERING	NG MILLS LTD, KENYA	John Cockerill	Function Drawing No	DESIGN SPECIFICAT (3)-CMIA00-20020-XX		SOA No. A-C	T20020	Qt Pa
	Consultant NA		Cockerill	Diawing NO	(3) 511117100 20020-777				Ou

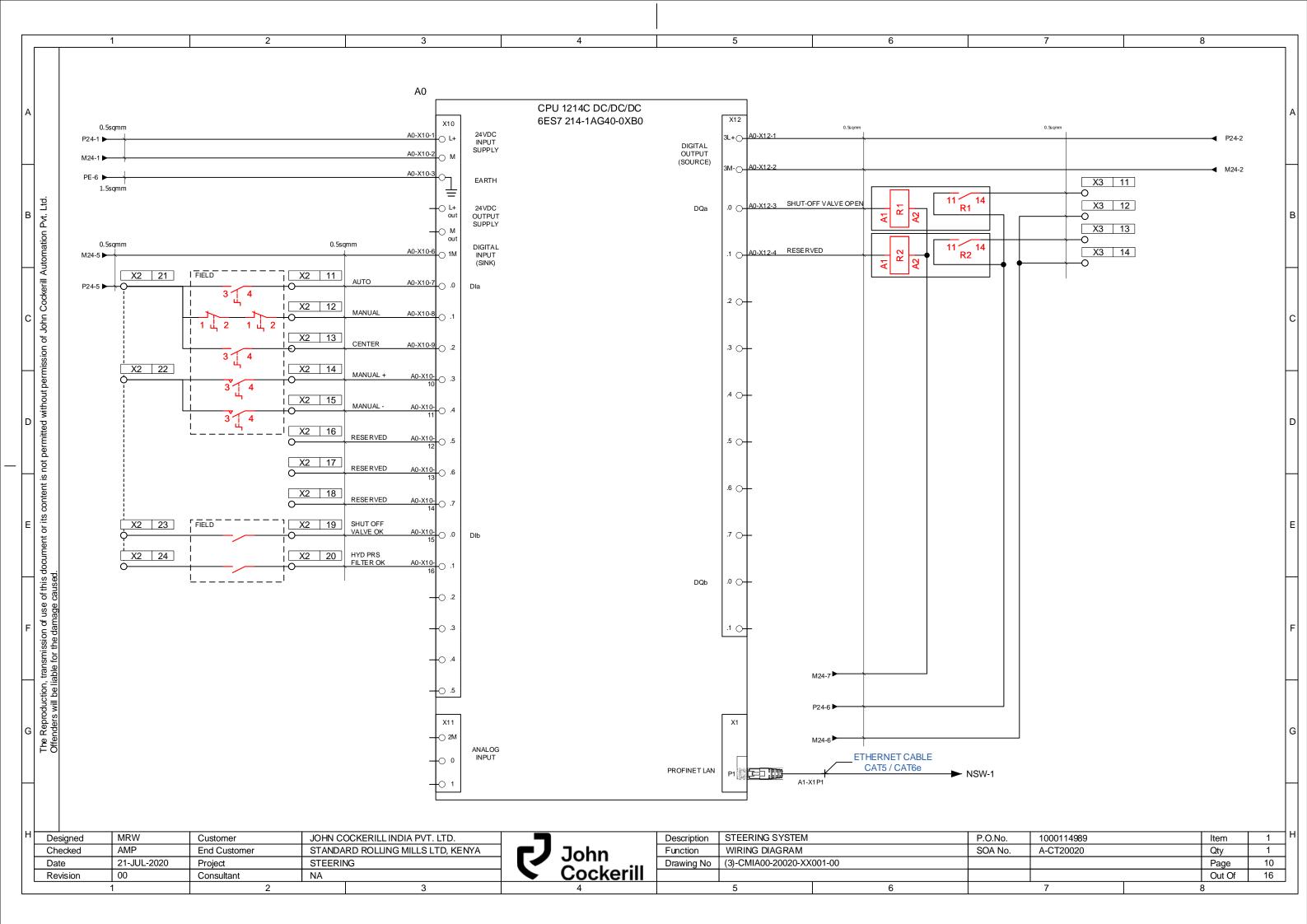


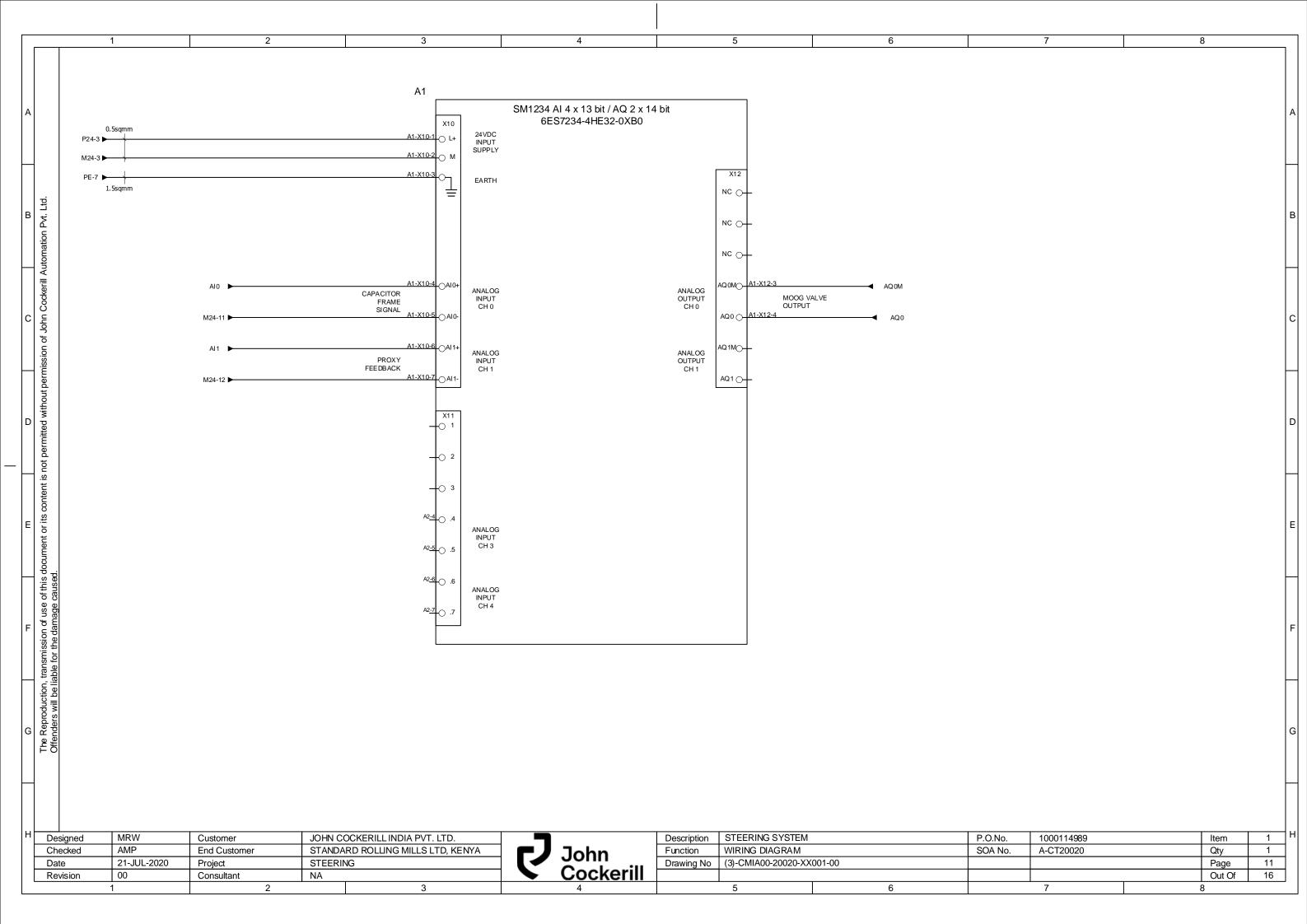


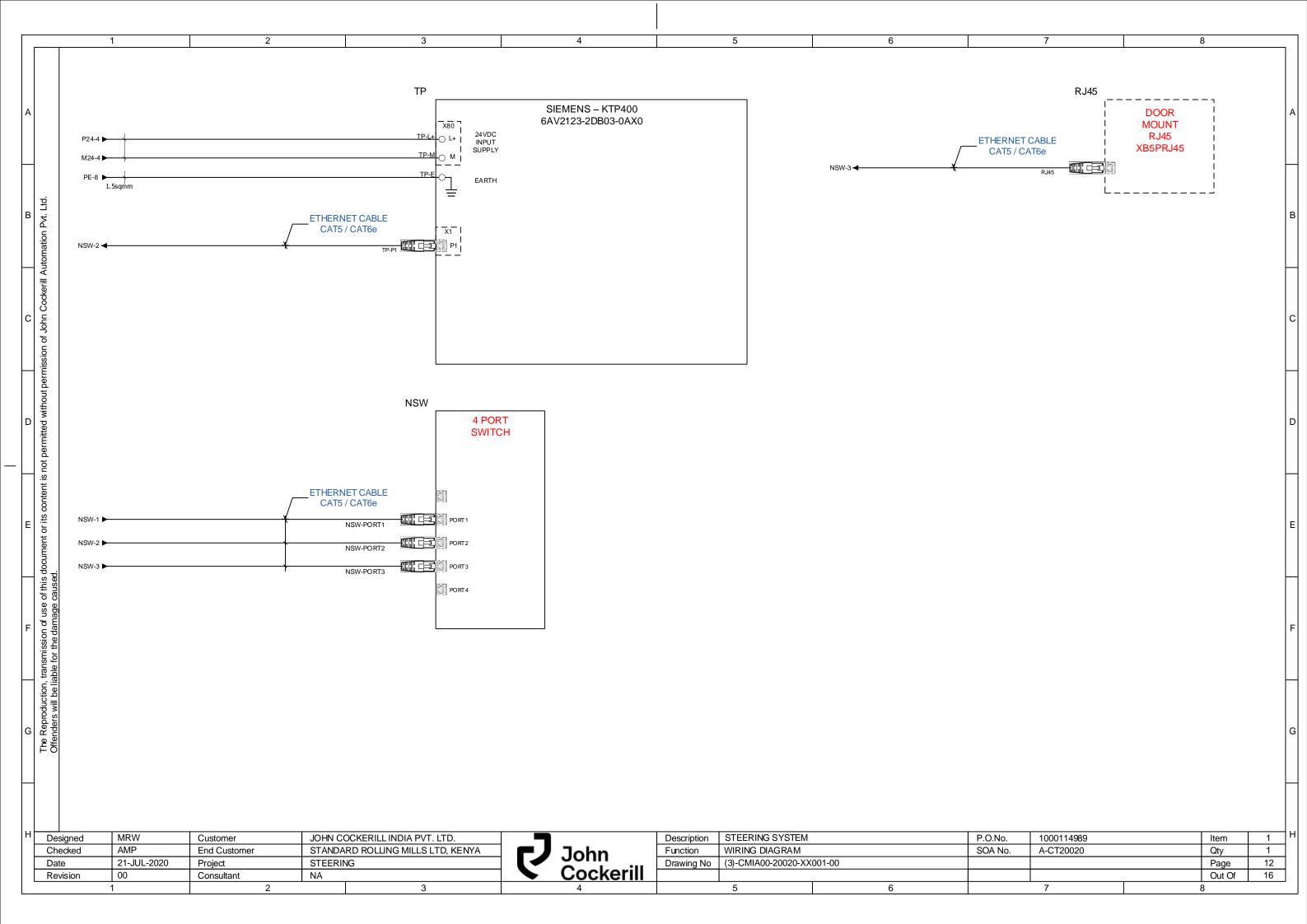


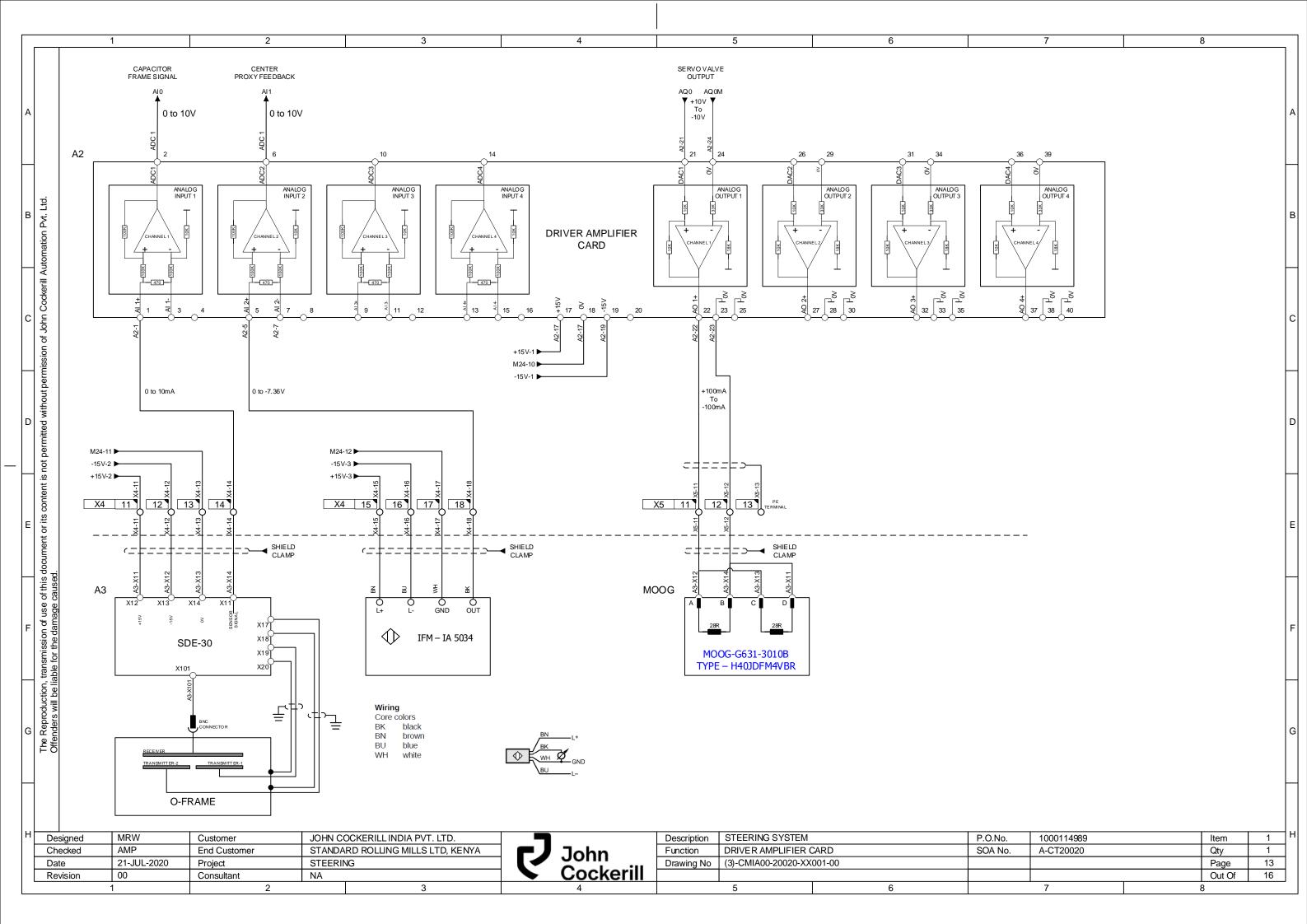


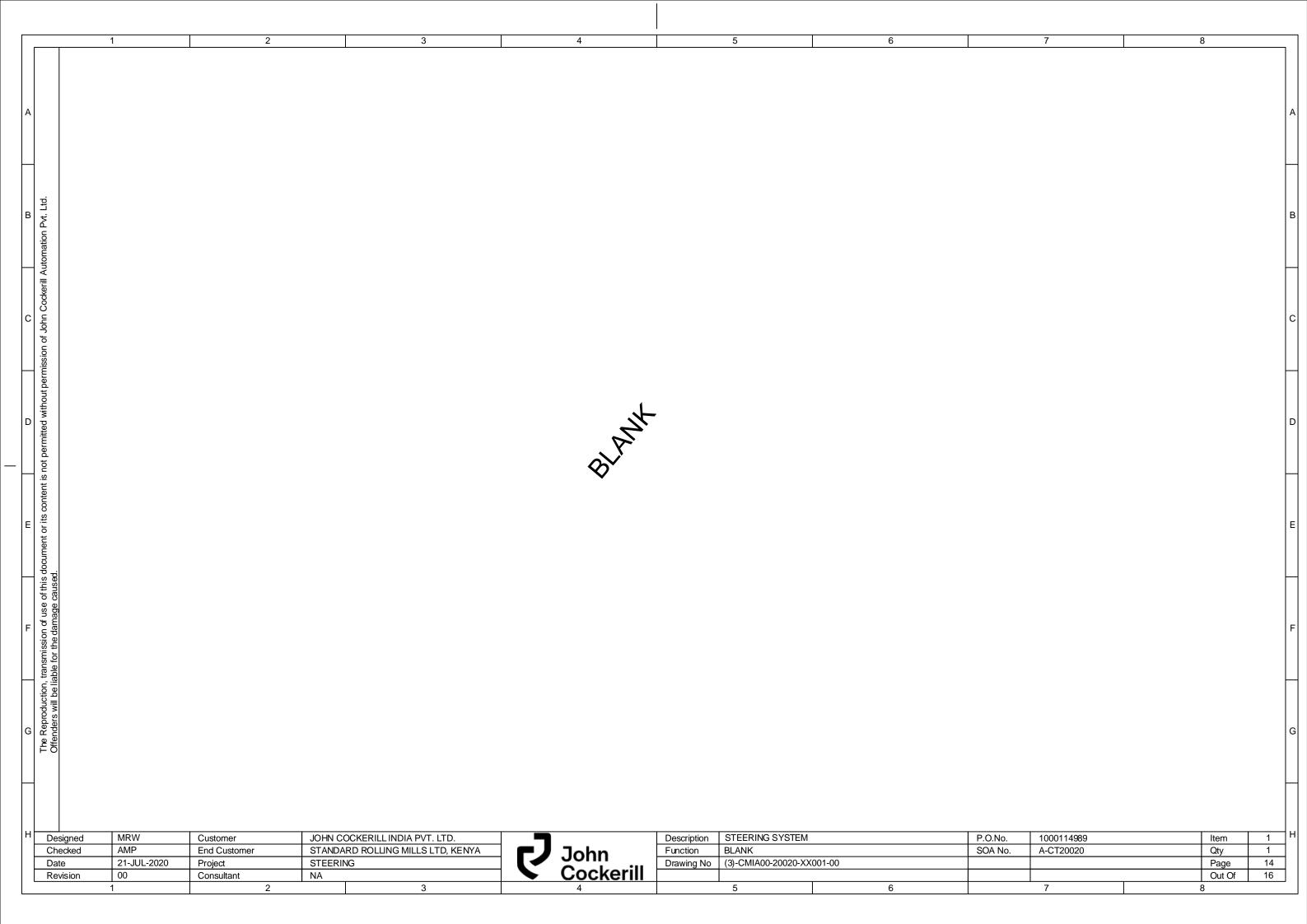


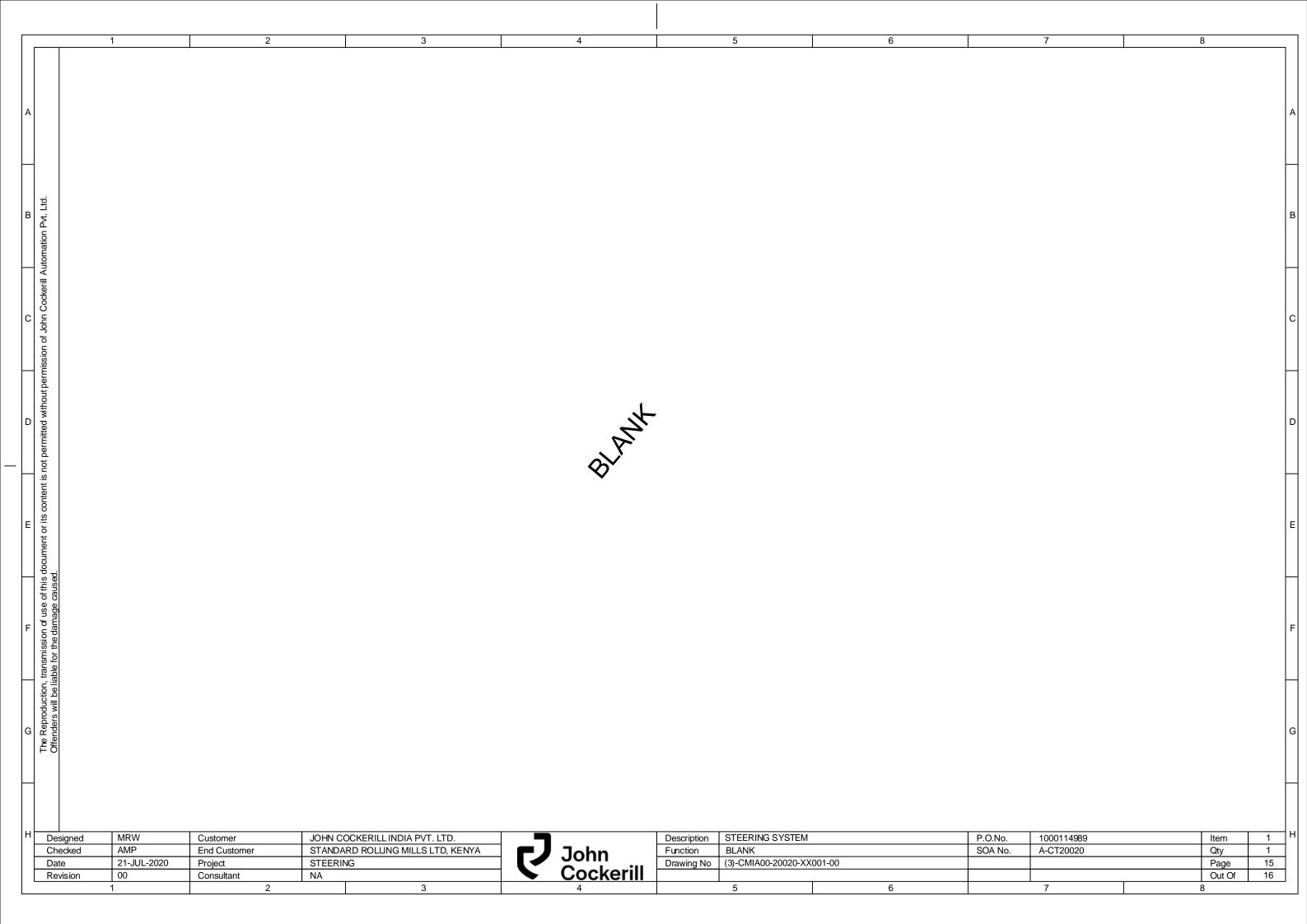












**BILL OF MATERIAL** Type No. Sr. Description Designation Make Quantity 5SL6210-7 DOUBLE POLE MCB, 10A C-Type 7.5kA QUPS1 **SIEMENS** 1. 1 QUPS2..QUPS6 2 5SL6106-7 SIEMENS 7 SINGLE POLE MCB, 6A C-Type 7.5kA QDC1,QDC2 PS1 3 6EP1333-1LB00 POWER SUPPLY 24VDC/5A **SIEMENS** 1 content is not permitted without permission of John Cockerill Automation Pvt. PS2, PS3 MDR20-15 POWER SUPPLY 15VDC/1.34A **MEANWELL** 2 **PANEL** RITTAL/EQUIVALENT 5 AE 1054.500 AE ENCLOSURE 1 SZ 2506.100 / CDINS6 3 PIN POWER SOCKET SK1 RITTAL / CONNECTWELL 1 COOLING FAN WITH FILTER (6") FAN 7 SK 3238.100 RITTAL/EQUIVALENT 1 8 SK 3238.200 **FILTER** RITTAL/EQUIVALENT **EXHAUST FILTER (6")** 1 Α0 6ES7 214-1AG40-0XB0 CPU 1214C DC/DC/DC SIEMENS 9 1 Α1 10 6ES7234-4HE32-0XB0 SM1234 AI 4 x 13 bit / AQ 2 x 14 bit SIEMENS 1 R1..R2 34.51.7.024.0010 SLIM RELAY 1CHANGEOVER 24VDC COIL FINDER/EQUIVALENT 2 11 R1..R2 SLIM RELAY SOCKET FINDER/EQUIVALENT 2 12 93.61.7.024 ΤP 13 6AV2123-2DB03-0AX0 SIMATIC KTP400 **SIEMENS** 1 14 AMPLIFIER\_CARD DRIVER AMPLIFIER CARD Α2 JC-A 1 SDE-30 O-FRAME ELECTRONICS (ON FIELD) А3 JC-A 1 15 NSW 16 TL-SF1005D 4 PORT NETWORK SWITCH **TPLINK** 1 RJ45 XB5PRJ45 PANEL MOUNT RJ45 CONNECTOR **SCHNEIDER** 17 1 RJ45 18 ZBSP1 PROTECTION COVER, PLASTIC, BLACK, FOR RJ45 PORT **SCHNEIDER** 1 JOHN COCKERILL INDIA PVT. LTD. STEERING SYSTEM Designed MRW Customer Description P.O.No. 1000114989 John Cockerill STANDARD ROLLING MILLS LTD, KENYA Checked AMP End Customer BILL OF MATERIAL SOA No. A-CT20020 Qty

(3)-CMIA00-20020-XX001-00

Drawing No

21-JUL-2020

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Project

Consultant

Date

Revision

STEERING

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