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FIRST USED ON

PROJECT : ANJAN DRUGS.

PROJECT NO. : NY07R2000


JOB TITLE : EDS300 VACUUM PUMP SYSTEM

DRAWING NO. : SGC/AD/2122/116

PANEL DESCRIPTION : SAFE AREA VFD CONTROL PANEL

PO NO. : -

QUANTITY : 10 NOS

0	01.12.2021	DRAWING FOR APPROVAL			PHS	SG	IK
REV.	DATE	PARTICULARS			DRAWN	CHECKED	APPROVED
DRN: PHS		COMPONENT		MAIN PAGE			
I. DATE: 30.11.2021		EDS300 VACUUM PUMP SYSTEM					
TECHNICAL		AUTOCAD DRAWING EDWARDS DRAWING NO.: NY07R2004					
APPR'D		SIZE	DRAWING NUMBER			SHEET No.	
		A4	SGC/AD/2122/116			1 OF 8	

REVISED BY:
 ECD No.:
 DATE: 30.11.2021

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DATE: 30.11.2021

EDS300 VACUUM PUMP SYSTEM
ANJAN DRUGS.

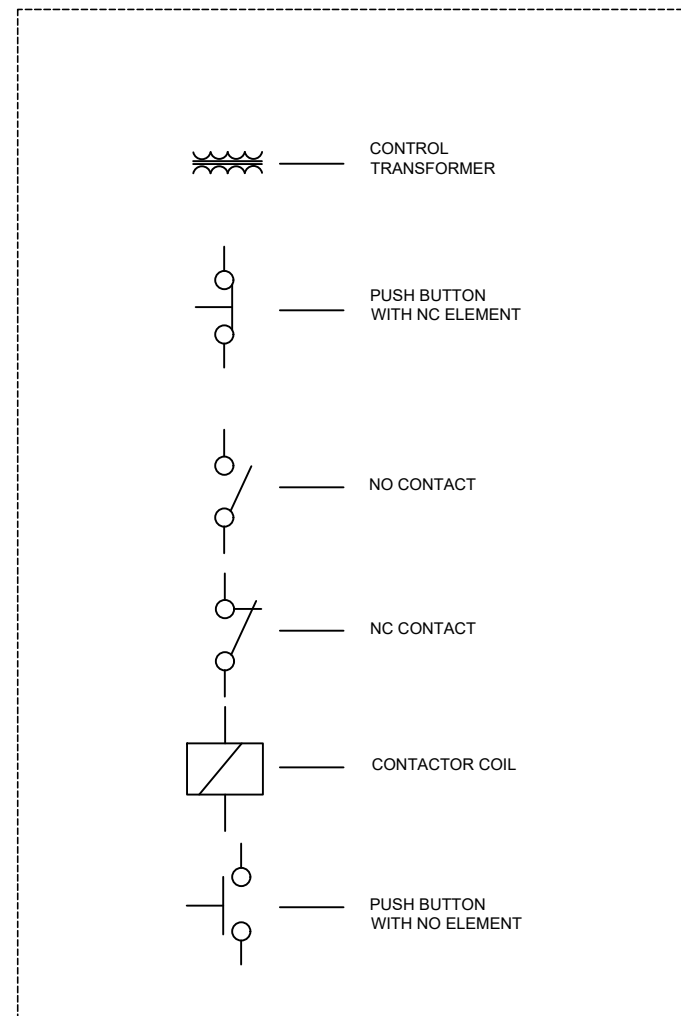
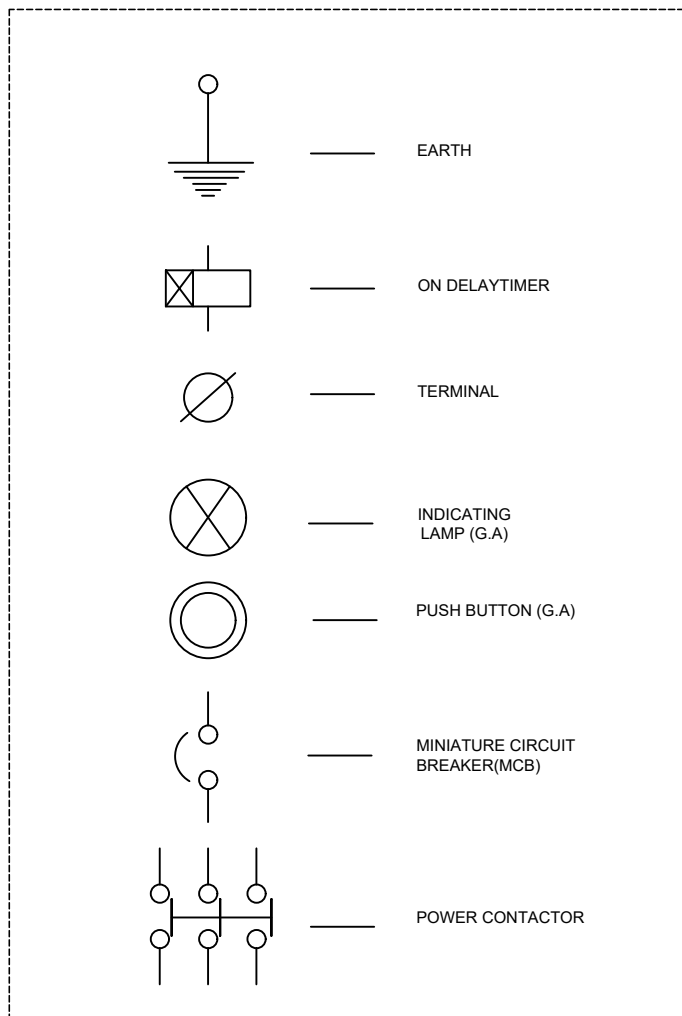
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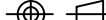
SIZE

SGC/AD/2122/116

ISSUE

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0	01.12.2021	DRAWING FOR APPROVAL		PHS	SG	IK
REV.	DATE	PARTICULARS	DRAWN	CHECKED	APPROVED	
DRN: PHS		COMPONENT	ELECTRICAL SYMBOLS			
I. DATE: 30.11.2021		EDS300 VACUUM PUMP SYSTEM				
TECHNICAL		AUTOCAD DRAWING EDWARDS DRAWING NO.: NY07R2004				
APPR'D		SIZE	DRAWING NUMBER		SHEET No.	ISSUE
		A4	SGC/AD/2122/116		2 OF 8	0

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EDS300 VACUUM PUMP SYSTEM
ANJAN DRUGS.

DRAWING NUMBER
SGC/AD/2122/116

SIZE
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A. SUPPLY CHARACTERSTICS.

System : 415VAC, 3 Phase, 4Wire
 Fault level : 10kA For 1 Sec
 Supply Variation : Voltage 415V, $\pm 10\%$, 50HZ $\pm 5\%$
 Control Supply : 230VAC $\pm 10\%$
 Rated Insulation : 1100 Volts
 Design Ambient : 35 °C

B. EXECUTION

Safe Area Panel with IP42

C. CONSTRUCTION

Size: (H) 850 mm X (W) 600 mm X (D) 300 mm
 Mounting Plate: (H)780 mm X (W) 480 mm
 Panel color: RAL 7035
 Mounting Type: Wall Mounting panel
 Cable Entry: Bottom side

F. TERMINALS.

Control terminals
 (Connectwell make Unbreakable Nylon based)

For Control circuit clip on screw type terminals will be provided (Minimum 2.5 sq. mm screw type terminals)

E. WIRING

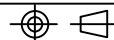
All Panel internal Wiring done by PVC insulated flexible wire of 1100V Grade copper flexible conductor having following cross section & Field wiring done by Copper Armored cable.

SIZES

Power circuit : 2.5 To 10 sq.mm as per Motor KW Rating with R, Y, B Colour Code.

Control circuit : 0.75 sq.mm as Per Below Colour Code

Sr No	PURPOSE	COLOR	SIZE
1	230VAC	Gray	0.75 sq mm
2	Netural	Black	0.75 sq mm
3	24VDC +	Orange	0.5 sq mm
4	0V -	Voilet	0.5 sq mm
5	PLC I/O	Blue	0.5 sq mm
6	Earthing	Yellow + Green	1.5 sq mm

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I. DATE: 30.11.2021		AUTOCAD DRAWING			EDS300 VACUUM PUMP SYSTEM		
TECHNICAL		EDWARDS DRAWING NO.:			NY07R2004		
APPR'D		SIZE	DRAWING NUMBER			SHEET No.	
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EDS300 VACUUM PUMP SYSTEM
 ANJAN DRUGS.

DRAWING NUMBER

SGC/AD/2122/116

SIZE

A4

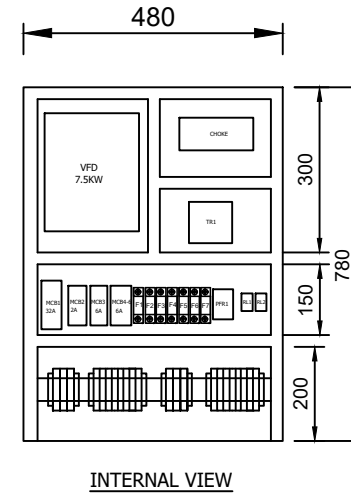
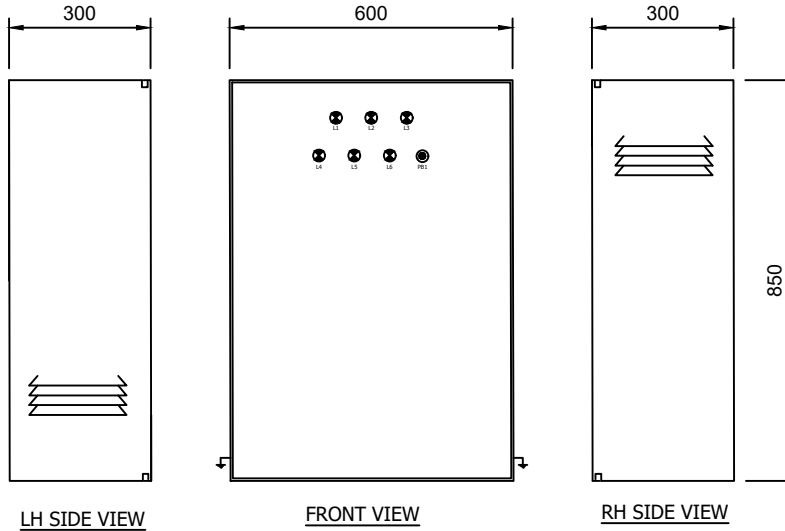
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PANEL LEGENDS

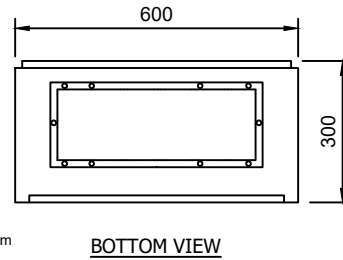
Sr No	TAG	DESCRIPTION	TYPE
1	L1	R PHASE	RED, 230VAC
2	L2	Y PHASE	RED, 230VAC
3	L3	B PHASE	RED, 230VAC
4	L4	PHASE MISSING	RED, 230VAC
5	L5	EDS ON	GREEN, 230VAC
6	L6	EDS TRIP	AMBER, 230VAC
7	PB1	EMERGENCY STOP	RED PB WITH NC

QTY - 10 NOS.

NOTES :-

Safe Area Panel with IP42

- Size: (H) 850 mm X (W) 600 mm X (D) 300 mm
- Mounting Plate: (H) 780 mm X (W) 480 mm
- Panel color: RAL 7035
- Mounting Type: Skid Mounting panel
- Cable Entry: Bottom side



0	01.12.2021	DRAWING FOR APPROVAL			PHS	SG	IK
REV.	DATE	PARTICULARS			DRAWN	CHECKED	APPROVED
DRN: PHS		SAFE AREA PANEL GA					
I. DATE: 30.11.2021		EDS300 VACUUM PUMP SYSTEM					
TECHNICAL		AUTOCAD DRAWING EDWARDS DRAWING NO.: NY07R2004					
APPR'D		SIZE	DRAWING NUMBER			SHEET No.	
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EDS300 VACUUM PUMP SYSTEM
ANJAN DRUGS.

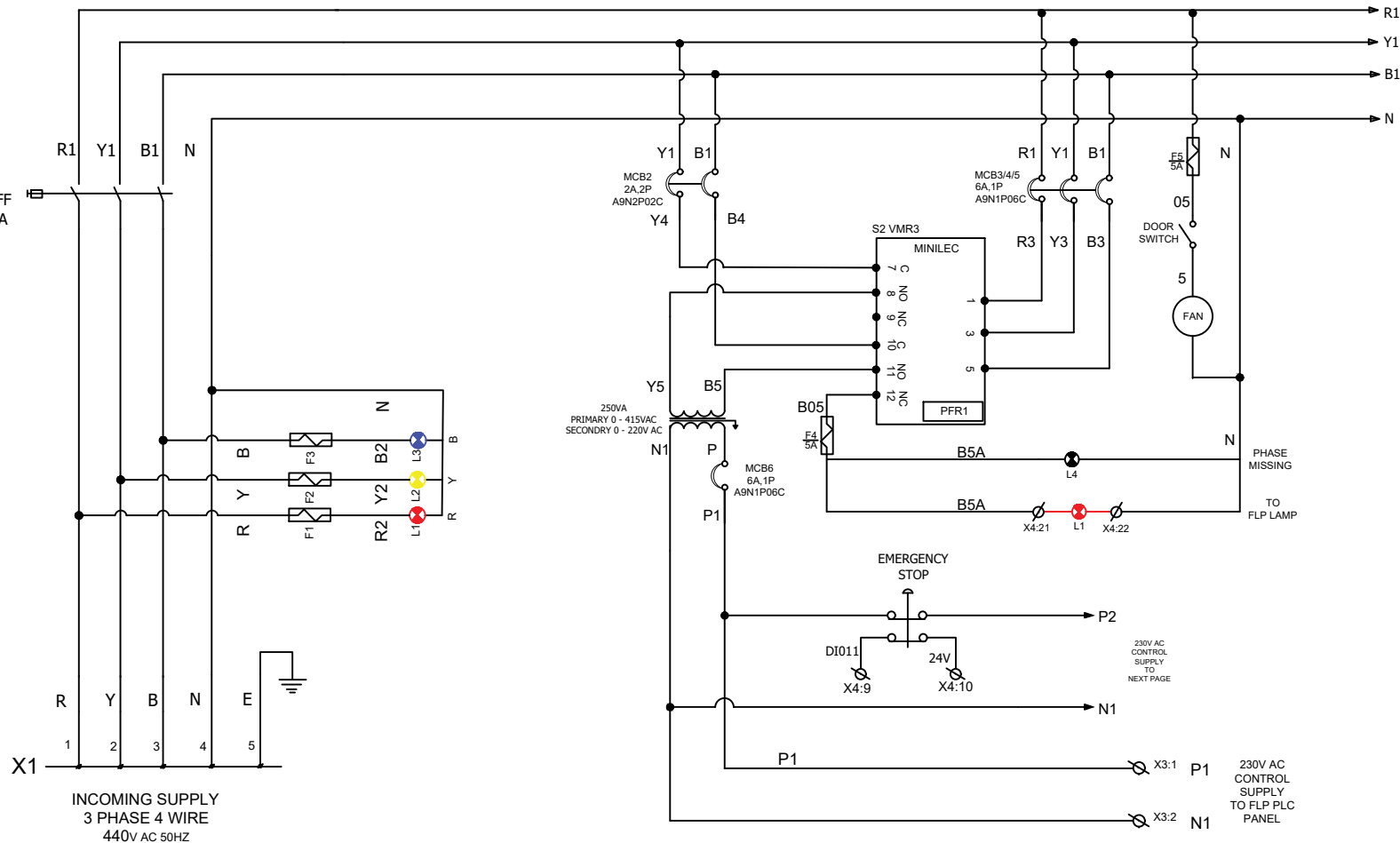
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REV.	DATE	PARTICULARS	PHS	SG	IK
0	01.12.2021	DRAWING FOR APPROVAL			
DRN: PHS		COMPONENT	DRAWN	CHECKED	APPROVED
I. DATE: 30.11.2021		EDS300 VACUUM PUMP SYSTEM			
TECHNICAL		AUTOCAD DRAWING			
APPR'D		SIZE	DRAWING NUMBER	SHEET No.	ISSUE
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EDS300 VACUUM PUMP SYSTEM
ANJAN DRUGS.

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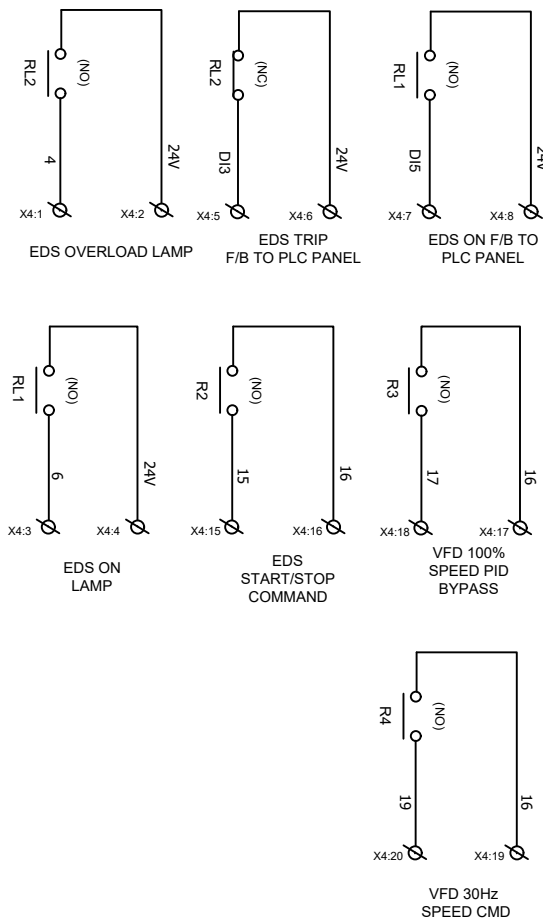
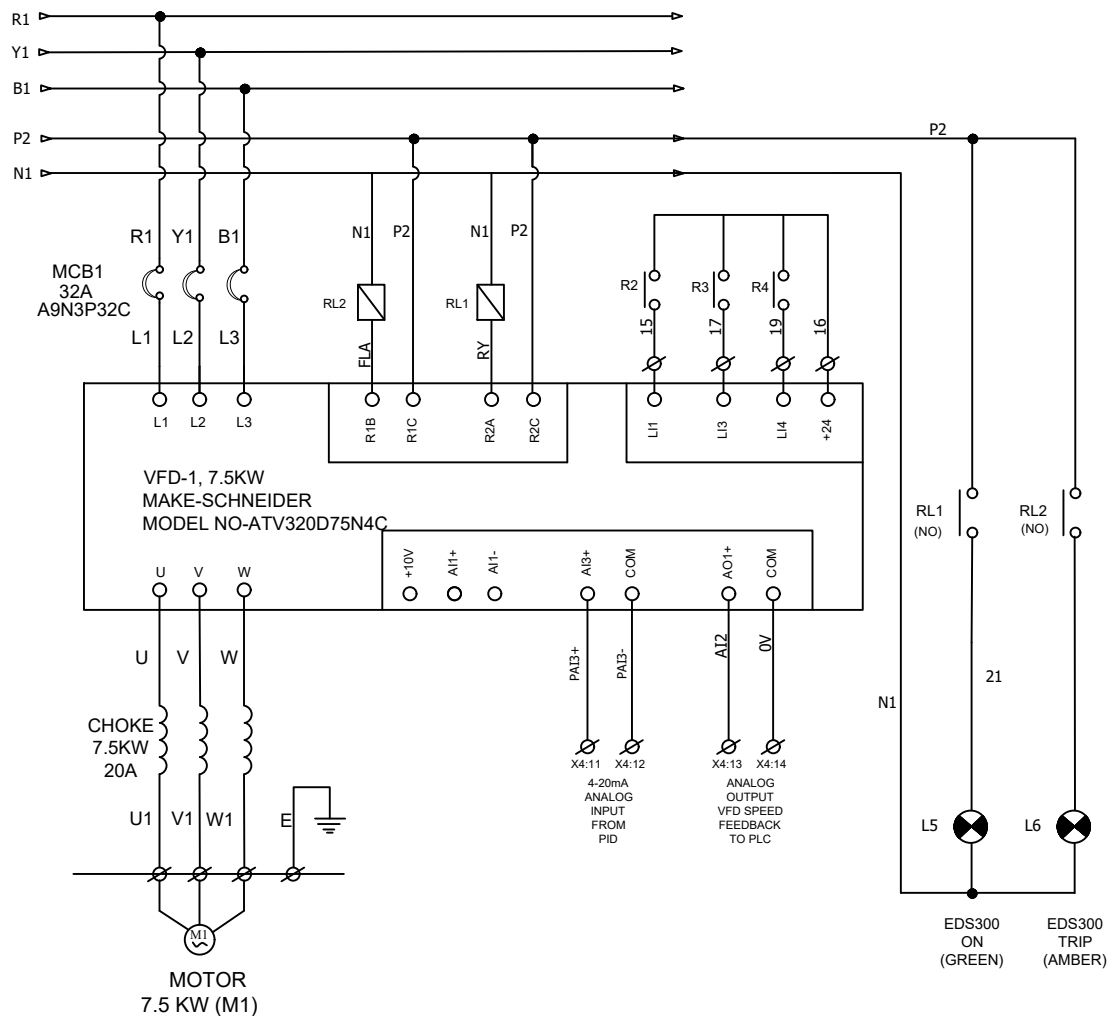
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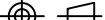
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REV.	DATE	PARTICULARS	DRAWN	CHECKED	APPROVED	
DRN: PHS		COMPONENT	POWER CIRCUIT OF VFD			
I. DATE: 30.11.2021			EDS300 VACUUM PUMP SYSTEM			
TECHNICAL		AUTOCAD DRAWING	EDWARDS DRAWING NO.: NY07R2004			
APPR'D		SIZE	DRAWING NUMBER		SHEET No.	
		A4	SGC/AD/2122/116		6 OF 8	

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DATE: 30.11.2021

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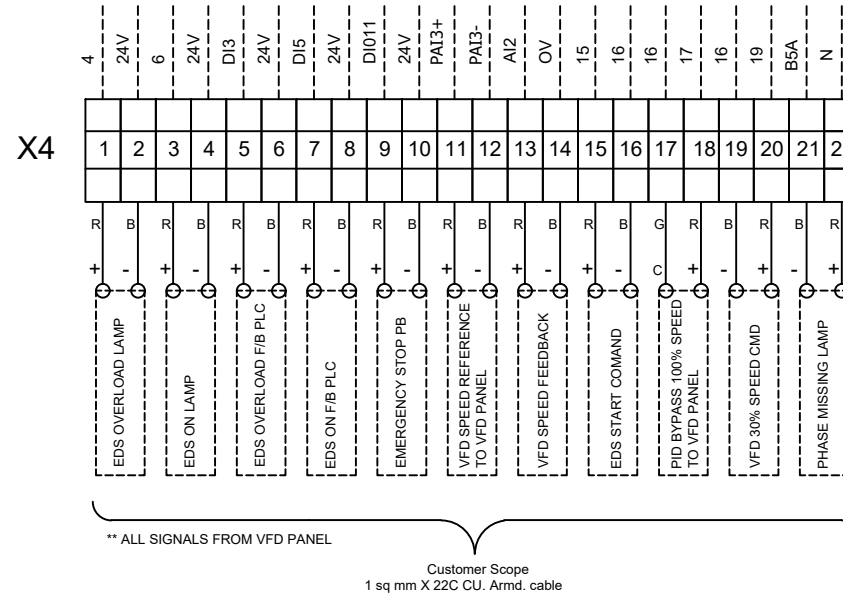
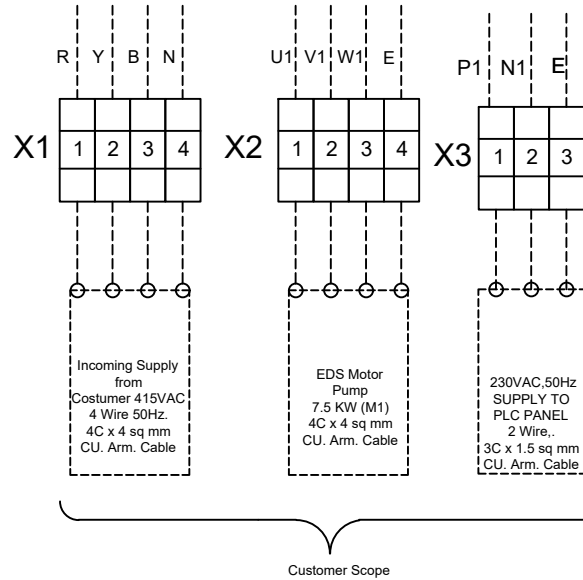
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REV.	DATE	PARTICULARS		DRAWN	CHECKED	APPROVED
DRN: PHS		COMPONENT	TERMINATION DETAILS			
I. DATE: 30.11.2021		EDS300 VACUUM PUMP SYSTEM				
TECHNICAL		AUTOCAD DRAWING	EDWARDS DRAWING NO.: NY07R2004			
APPR'D		SIZE	DRAWING NUMBER			SHEET No.
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EDS300 VACUUM PUMP SYSTEM
ANJAN DRUGS.

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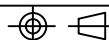
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BILL OF MATERIAL

SR. NO	TAG	EQUIPMENT NAME	SPECIFICATION	MAKE.	MODEL NO.	QTY
1	MS1	MAIN SWITCH	63A,3P, 10KA	SALZER	LBS63	01
2	MCB1	MCB FOR PUMP	32A,3P	SCHNEIDER	A9N3P32C	01
3	MCB2	MCB FOR PRIMERY FOR T/R	2A,2P	SCHNEIDER	A9N2P02C	01
4	MCB3,4,5	MCB FOR PFR	6A,1P	SCHNEIDER	A9N1P06C	03
5	MCB6	MCB FOR CONTROL	6A,1P	SCHNEIDER	A9N1P06C	01
6	VFD	VFD FOR PUMP	7.5KW	SCHNEIDER	ATV320D75N4C	01
7	-	CHOKE	7.5KW,20A	RELIABLE	-	01
8	TR1	TRANSFORMER	250VA,PRI-415VAC,SEC-230VAC	RELIABLE	-	01
9	PFR-1	PHASE FAILURE RELAY	380-415V AC	MINILEC	S2 VMR3	01
10	X1,X2,X3	POWER TERMINAL	16 SQ.MM	CONECTWELL	CTS16UN	11
11	X4	CONTROL TERMINAL	4 SQ.MM	CONECTWELL	CDL4UN	10
12	RL1/RL2	CONTROL RELAY	230V AC, 3A	SCHNEIDER/OMRON	MY4N-GS	02
13	L1	RED LAMP (R-PHASE)	230V AC	SCHNEIDER	XA2EVM4LC	01
14	L2	YELLOW LAMP (Y-PHASE)	230V AC	SCHNEIDER	XA2EVM8LC	01
15	L3	BLUE LAMP (B-PHASE)	230V AC	SCHNEIDER	XA2EVM6LC	01
16	L4	RED LAMP (PHASE MISSING)	230V AC	SCHNEIDER	XA2EVM4LC	01
17	L5	GREEN LAMP (EDP250-ON)	230V AC	SCHNEIDER	XA2EVM3LC	01
18	L6	AMBER LAMP (EDP250-TRIP)	230V AC	SCHNEIDER	XA2EVM5LC	01
19	PB1	EMERGENCY PUSHBUTTON (RED)	-	SCHNEIDER	ZBE-102N	01
19	F1-F5	FUSE TERMINAL	-	-	-	05
20	SIZE OF PANEL	(H) 850 mm X (W) 600 mm X (D) 300 mm	MS SHEET /RAL 7035	-	-	01

0	01.12.2021	DRAWING FOR APPROVAL		PHS	SG	IK
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DRN: PHS		COMPONENT	BILL OF MATERIAL			
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