

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

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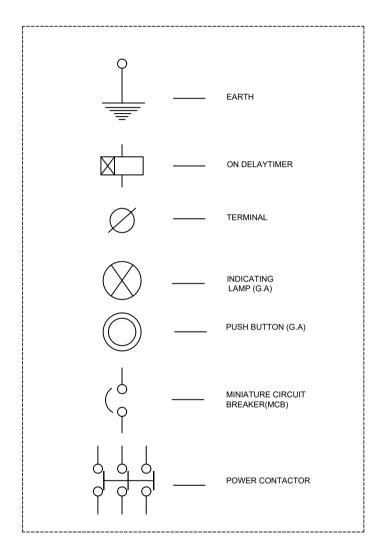
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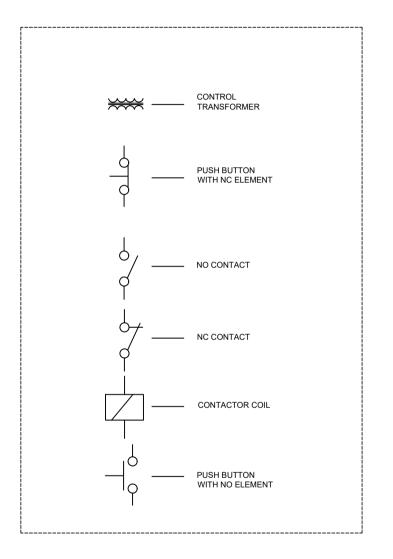
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VACUUM PUMP ANJAN DRUGS.



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#### SUPPLY CHARACTERSTICS. Α.

: 415VAC, 3 Phase, 4Wire System

: 10kA For 1 Sec Fault level

Supply Variation: Voltage 415V, ±10%, 50HZ ±5%

Control Supply : 230VAC ± 10% Rated Insulation : 1100 Volts Design Ambient : 35 °C

#### B. **EXECUTION**

Safe Area Panel with IP42

# 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)

#### **WIRING** Ε.

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.

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SIZES

Power circuit: 2.5 To 10 sq.mm as per Motor KW Rating with

R, Y, B Colour Code.

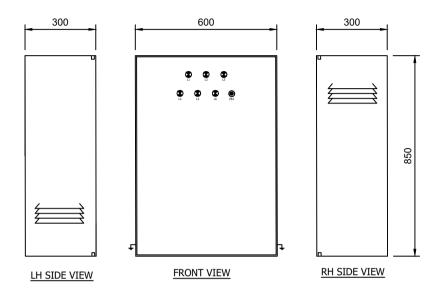
Control circuit: 0.75 sq.mm as Per Below Colour Code

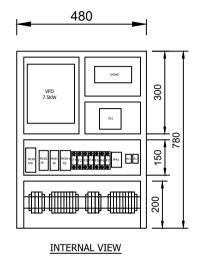
Sr No	PURPOSE	COLOR	SIZE
1	230VAC	Gray	0.75 sq mm
2	Netural	Black	0.75 sq mm
3	24VDC +	Orange	0.5 sq mm
4	0V -	Voilet	0.5 sq mm
5	PLC I/O	Blue	0.5 sq mm
6	Earthing	Yellow + Green	1.5 sq mm

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SYSTEM

PUMP

EDS300

VACUUM PUMP ANJAN DRUGS.

## 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

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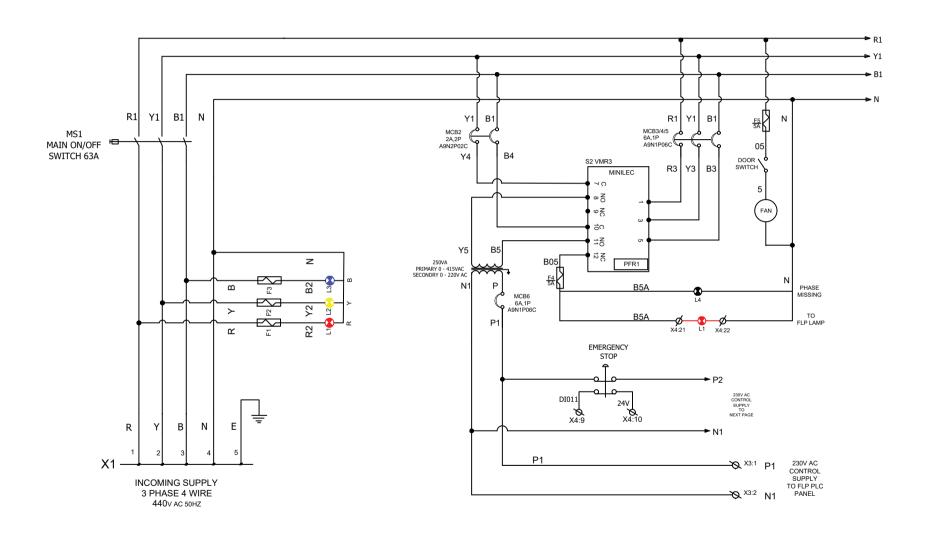
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600

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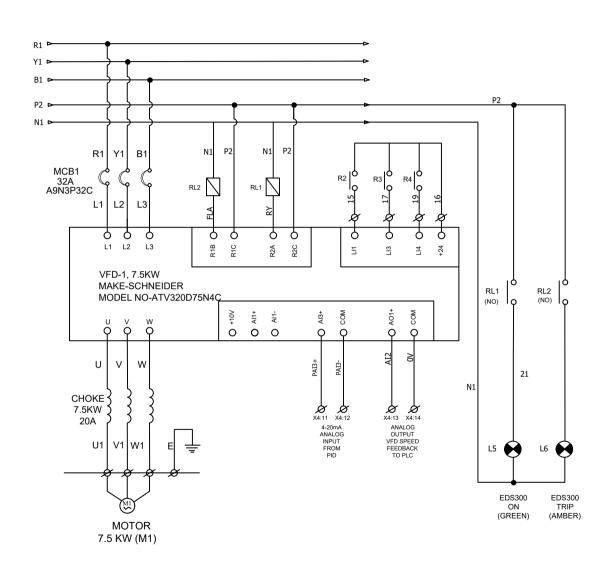
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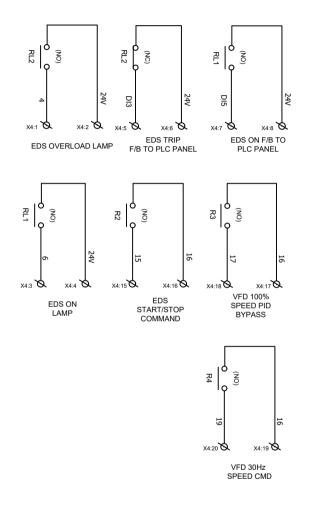
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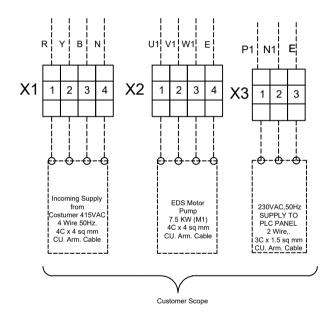
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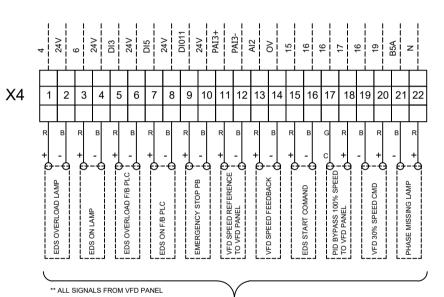
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Customer Scope 1 sq mm X 22C CU. Armd. cable

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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 PANE	L (H) 850 mm X (W) 600 mm X (D) 300 mm	MS SHEET /RAL 7035	-	-	01				

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