ARTEMIS TECH
Private Limited

ARTEMISTECH PVT LTD

Customer Name	: Suprajeet Engineering Limited
Customer Address	: Unit-03, Plot 27, KIADB Industrial Area, Doddaballapur, Bengaluru - 561203, Karnataka
Project Name	: L5-50
Main Control Panel	: Panel 1000(H)×700×500
Incoming Supply	: 230V AC
Control Voltage	: 24V DC
Created By	: Aarti Dhengle

1-L5-50 EOL

Drawing	Description	Function	Location	Revision	Date	Created by	Folder	Folder description
01	Cover page	=F1	+L1	0	4/24/2025	Aarti Dhengle		
02	Drawings list	=F1	+L1	0	4/24/2025	Aarti Dhengle		
03	Abbreviations	=F1	+L1	0	4/24/2025	Aarti Dhengle		
04	Symbolic Representation	=F1	+L1	0	4/24/2025	Aarti Dhengle		
05	Power Wiring	=F1	+L1	0	4/24/2025	Aarti Dhengle		
06	Control Wiring	=F1	+L1	0	4/24/2025	Aarti Dhengle		
07	Electrical equipments	=F1	+L1	0	4/24/2025	Aarti Dhengle		
08	PLC	=F1	+L1	0	4/24/2025	Aarti Dhengle		
09	PLC CARD	=F1	+L1	0	4/24/2025	Aarti Dhengle		
10	PLC DI	=F1	+L1	0	4/24/2025	Aarti Dhengle		
11	T/L & M Relay	=F1	+L1	0	4/24/2025	Aarti Dhengle		
12	JOB O/P RELAY	=F1	+L1	0	4/25/2025	Aarti Dhengle		
13	JOB	=F1	+L1	0	5/5/2025	Aarti Dhengle		
14	Job-1 Relay	=F1	+L1	0	4/24/2025	Aarti Dhengle		
15	Job-2 Relay	=F1	+L1	0	4/25/2025	Aarti Dhengle		
16	Job-3 Relay	=F1	+L1	0	4/25/2025	Aarti Dhengle		
17	EDAC	=F1	+L1	0	4/24/2025	Aarti Dhengle		
18	Bill Of Materials grouped by manufacturer	=F1	+L1	0	4/24/2025	Aarti Dhengle		
19	Bill Of Materials grouped by manufacturer	=F1	+L1	0	4/24/2025	Aarti Dhengle		
20	Bill Of Materials grouped by manufacturer	=F1	+L1	0	4/24/2025	Aarti Dhengle		
21	Bill Of Materials grouped by manufacturer	=F1	+L1	0	5/5/2025	Aarti Dhengle		

ABBREVIATIONS

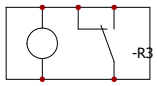
MCB	Miniature Circuit Breaker
SMPS	Switched Mode Power Supply
TB	Terminal Block
NO	Normally Open
NC	Normally Close
DI	Digital Input
DO	Digital Output
AI	Analog Input
NI	National Instruments
PLC	Programmable Logic Controller

SOLIDWORKS Electrical

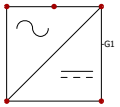
1	2	3	4	5	6	7	8	9	10

GENERAL SYMBOLIC REPRESENTATION

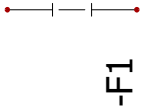
1CO RELAY



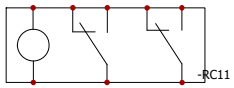
SMPS



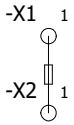
FUSE



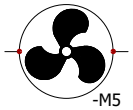
2CO RELAY



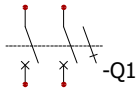
TERMINAL BLOCK (TB)



COOLING FAN

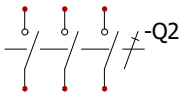


2 POLE MCB



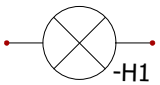
LIMIT SWITCH

LOAD BREAK SWITCH

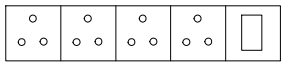


TOWER LAMP

INDICATOR



S.S. COMBINED BOX



Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	4/24/2025	Aarti Dhengle
		REV.	DATE	NAME
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1	Symbolic Representation	User data 2

CHANGES

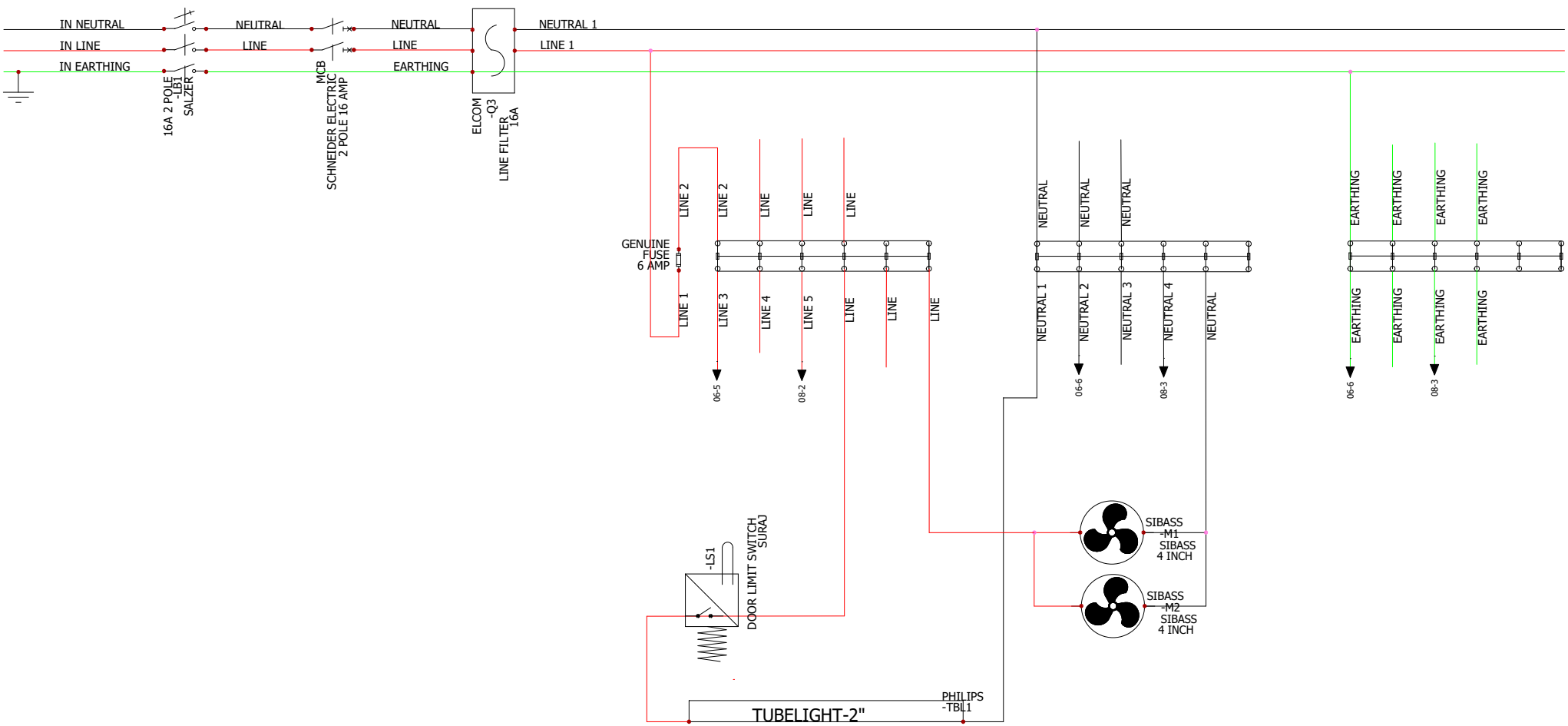
SCHEME 04

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052

230V, 50Hz Single phase AC SUPPLY

ROMA
S S COMBINE BOX
-SS2



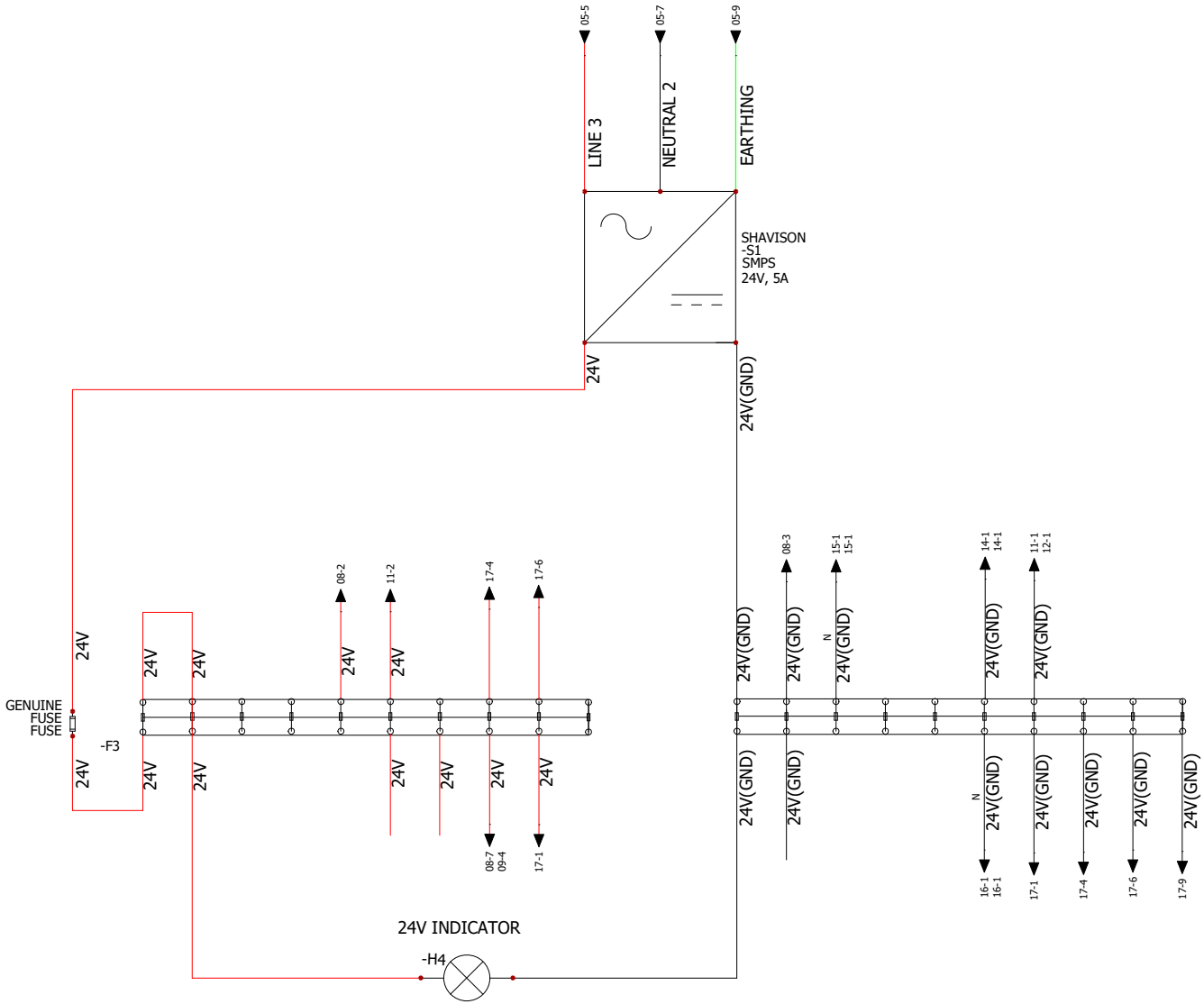
Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 05

REV.	DATE	NAME	CHANGES
0	4/24/2025	Aarti Dhengle	

User data 1: Power Wiring
User data 2:

SOLIDWORKS Electrical

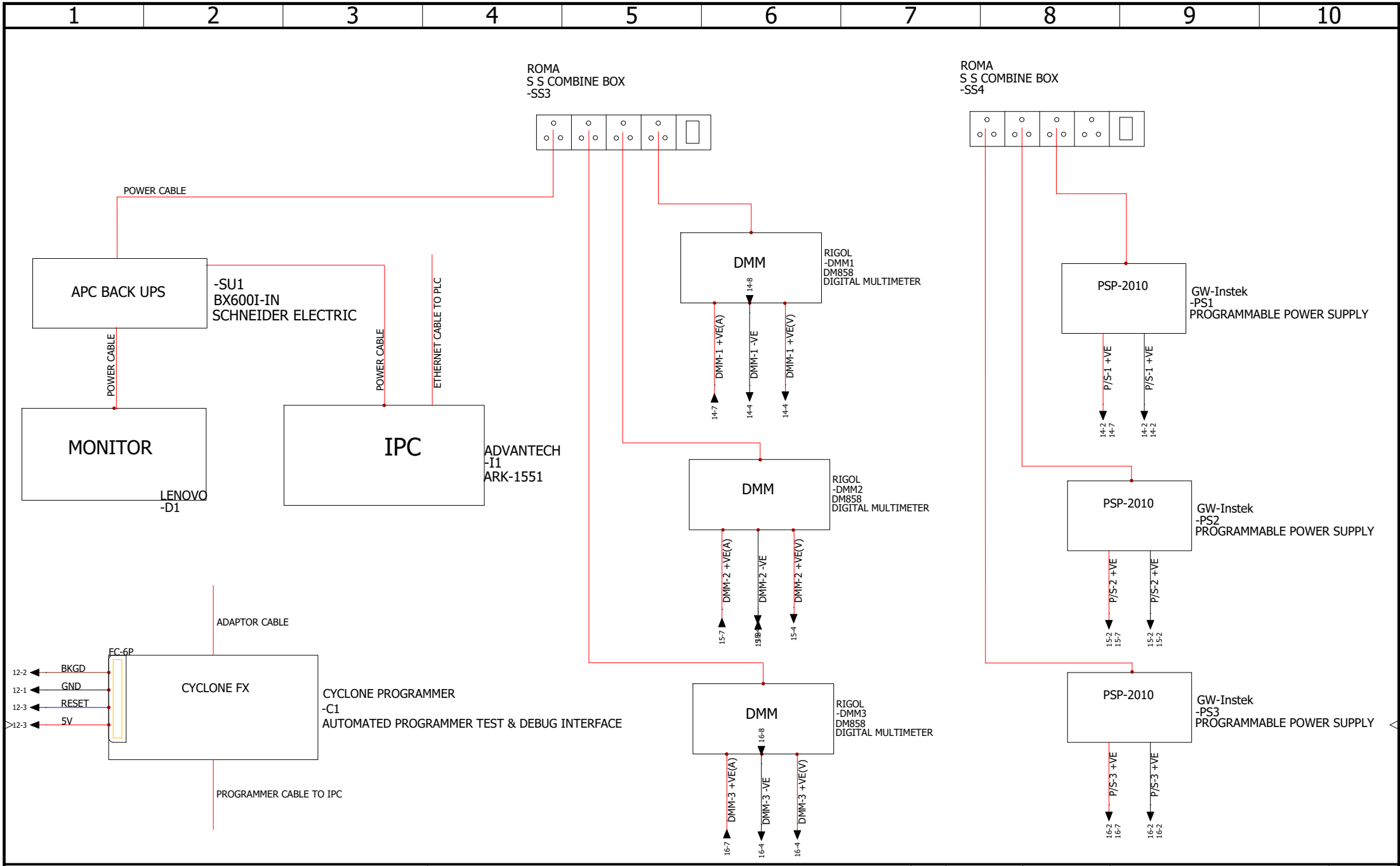
Document realized with version :2023.5.0.0052



Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	4/24/2025	Aarti Dhengle		SCHEME 06
		REV.	DATE	NAME	CHANGES	
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1	Control Wiring	User data 2		

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052



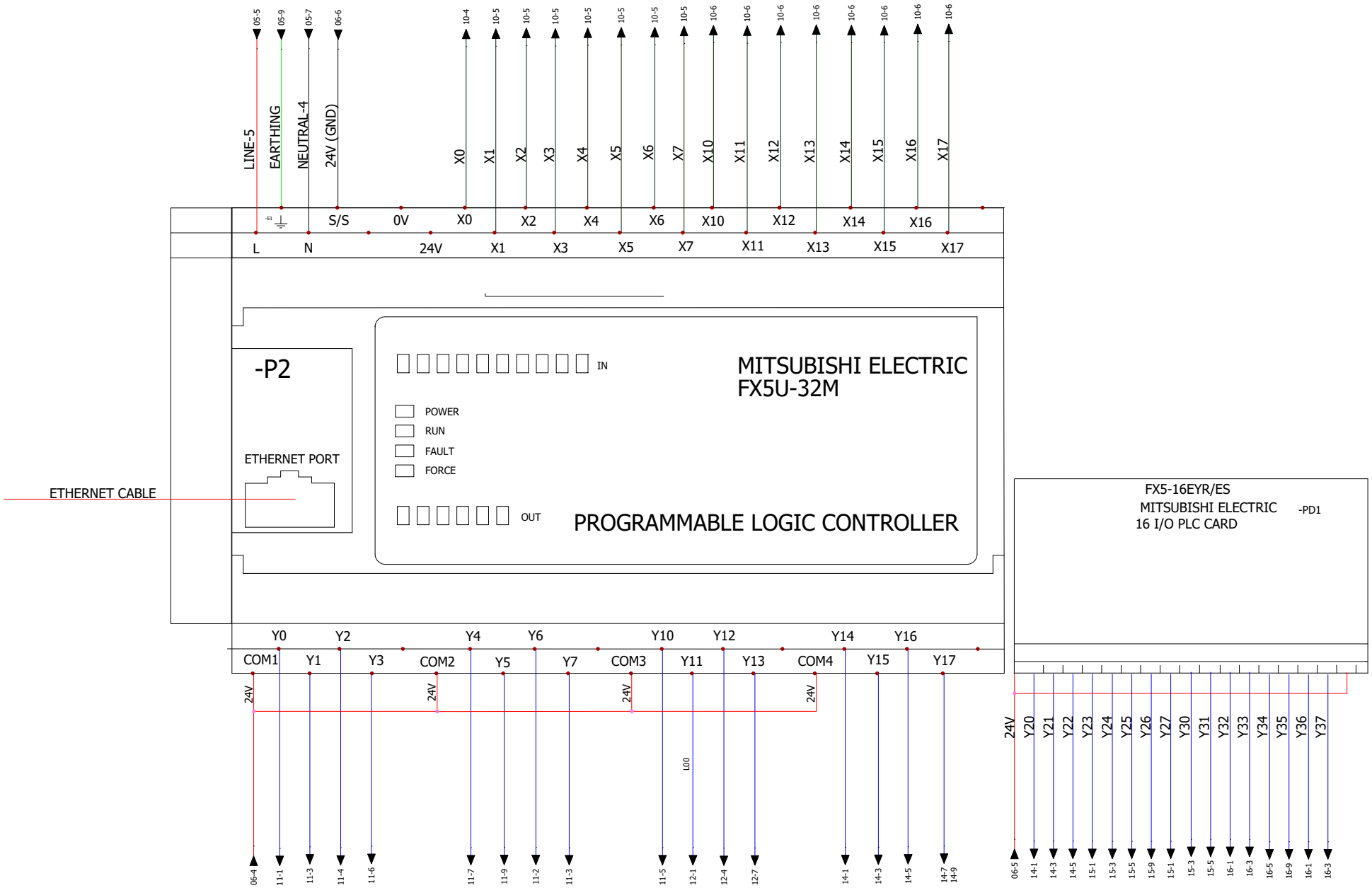
SOLIDWORKS Electrical

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 07

REV.	DATE	NAME	CHANGES
0	4/24/2025	Aarti Dhengle	

User data 1 | Electrical equipments | User data 2

Document realized with version :2023.5.0.0052



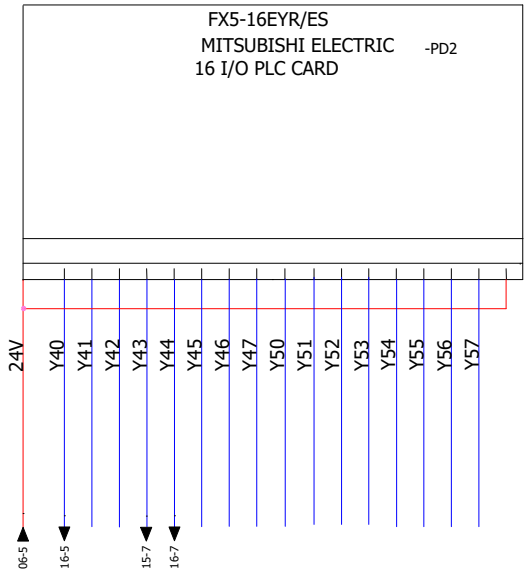
Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 08

REV.	DATE	NAME	CHANGES
0	4/24/2025	Aarti Dhengle	

User data 1: PLC
User data 2:

SOLIDWORKS Electrical

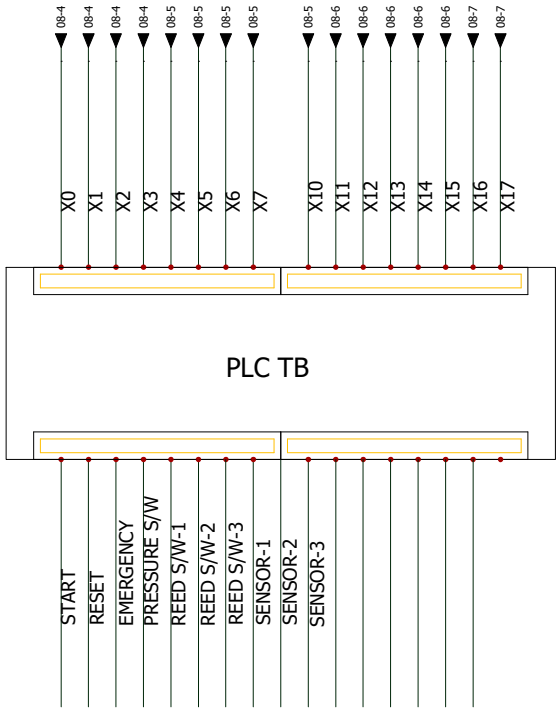
Document realized with version :2023.5.0.0052



SOLIDWORKS Electrical

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL		REVISION 0
		0 / 4/24/2025 / Aarti Dhengle /	SCHEME 09
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1: PLC CARD	User data 2

Document realized with version :2023.5.0.0052

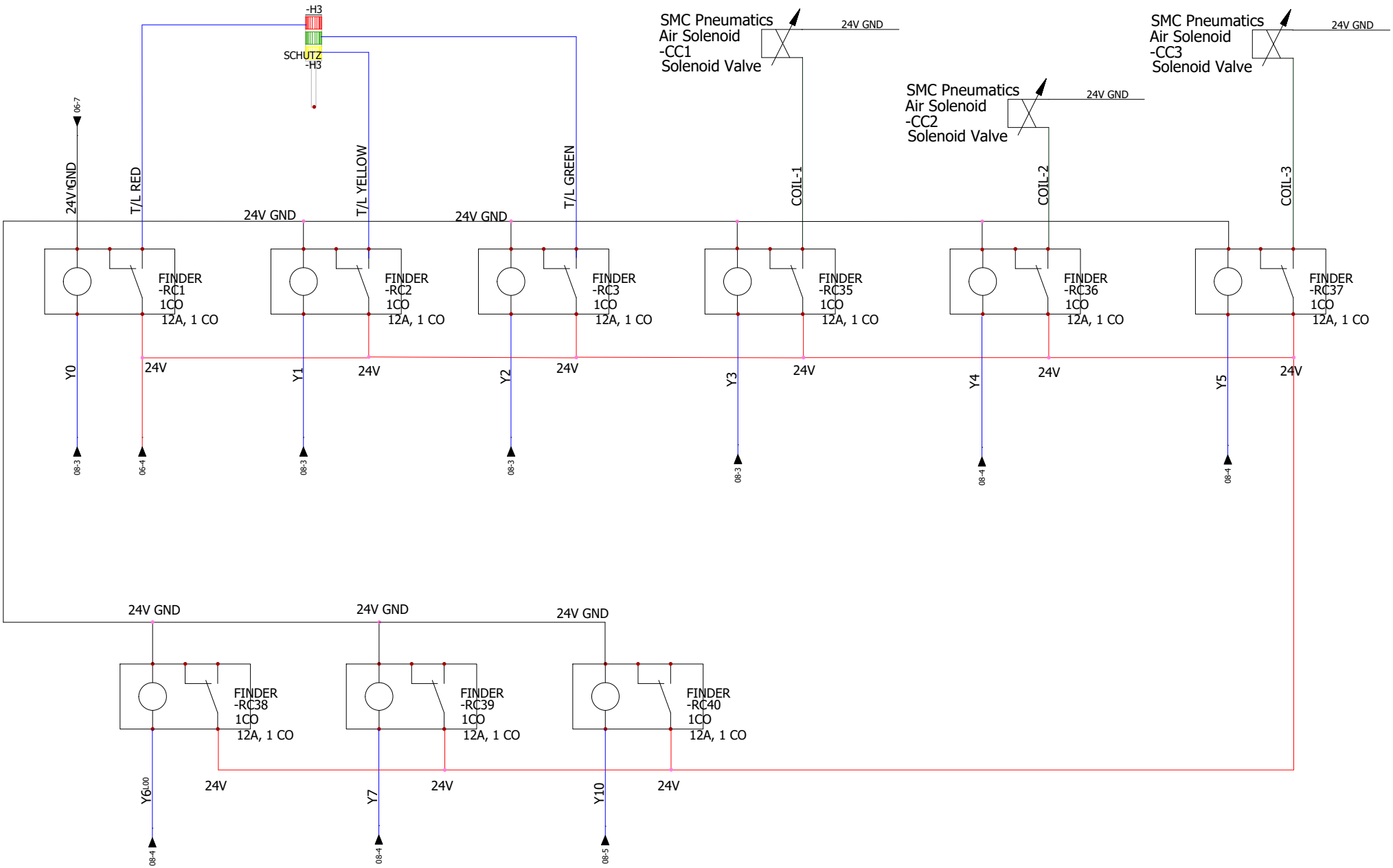


1	2	3	4	5	6	7	8	9	10

SOLIDWORKS Electrical

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	4/24/2025	Aarti Dhengle
		REV.	DATE	NAME
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1	PLC DI	User data 2
			CHANGES	SCHEME 10

Document realized with version :2023.5.0.0052



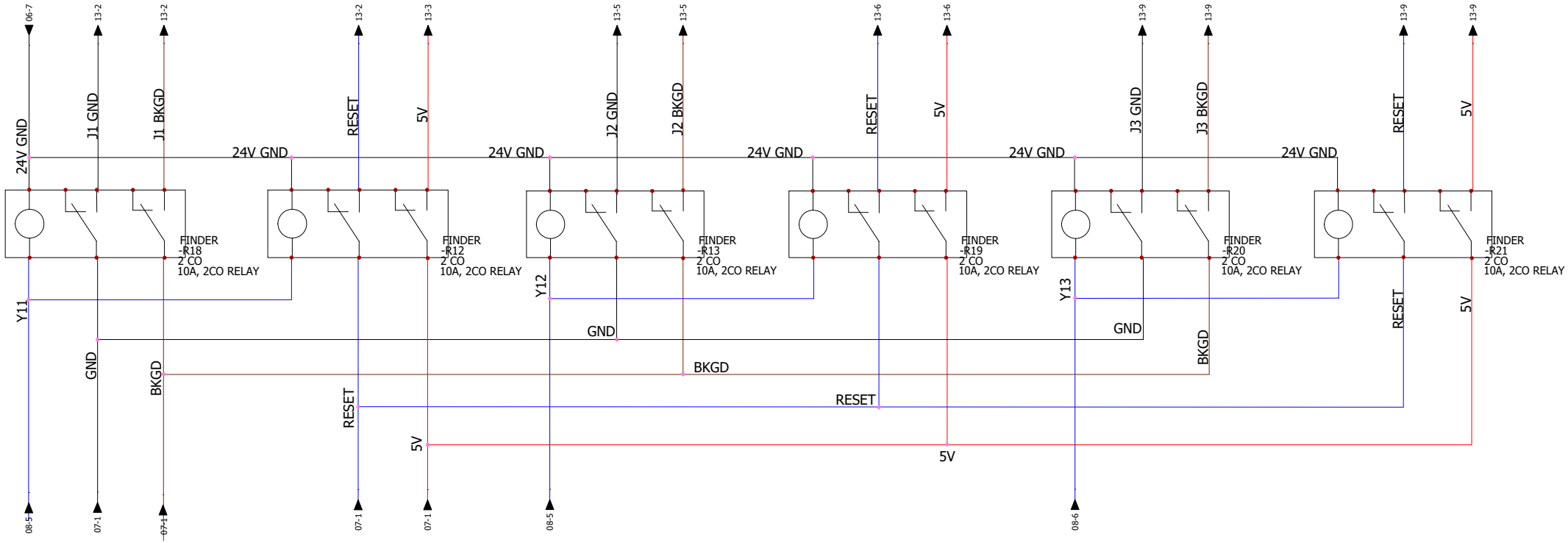
Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	4/24/2025 Aarti Dhengle	SCHEME 11
		REV.	DATE NAME	CHANGES
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1 T/L & M Relay		User data 2

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052

1	2	3	4	5	6	7	8	9	10

TO POGO PIN



FROM CYCLONE PROGRAMMER

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 12

REV.	DATE	NAME	CHANGES
0	4/25/2025	Aarti Dhengle	

User data 1: JOB O/P RELAY

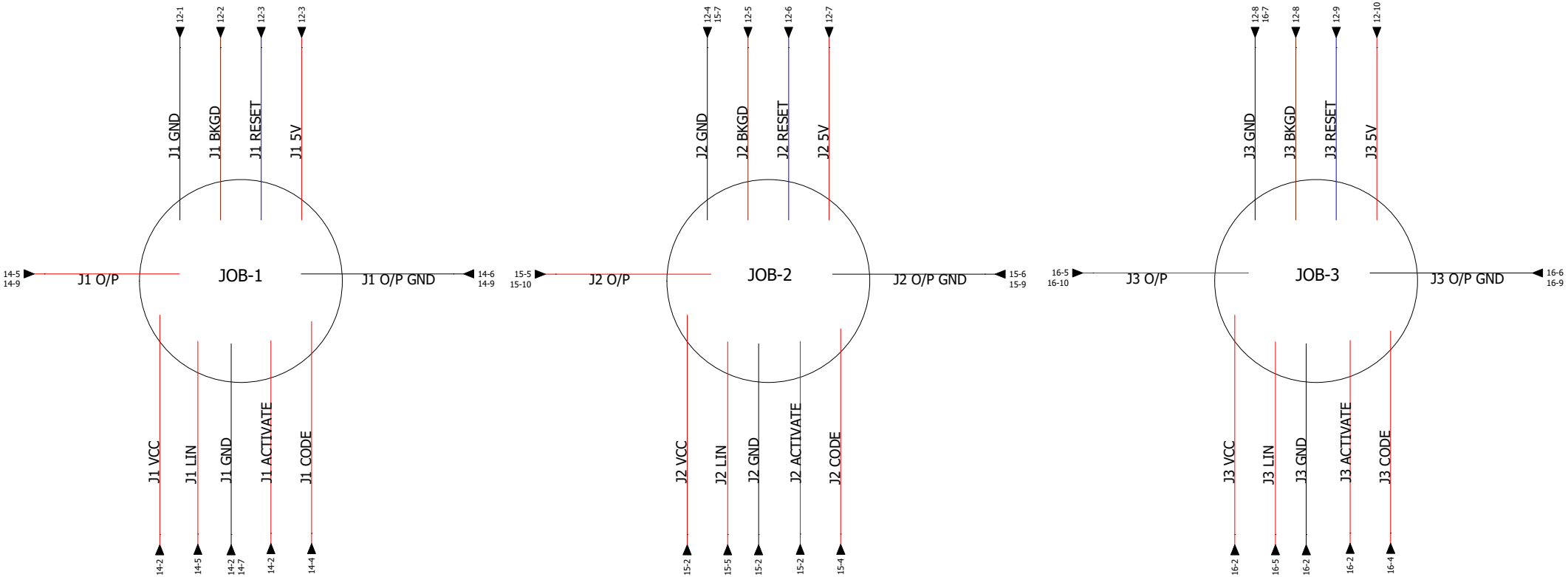
User data 2:

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052

1	2	3	4	5	6	7	8	9	10

FROM RELAY TO POGO PIN



FROM RELAY TO FIXTURE

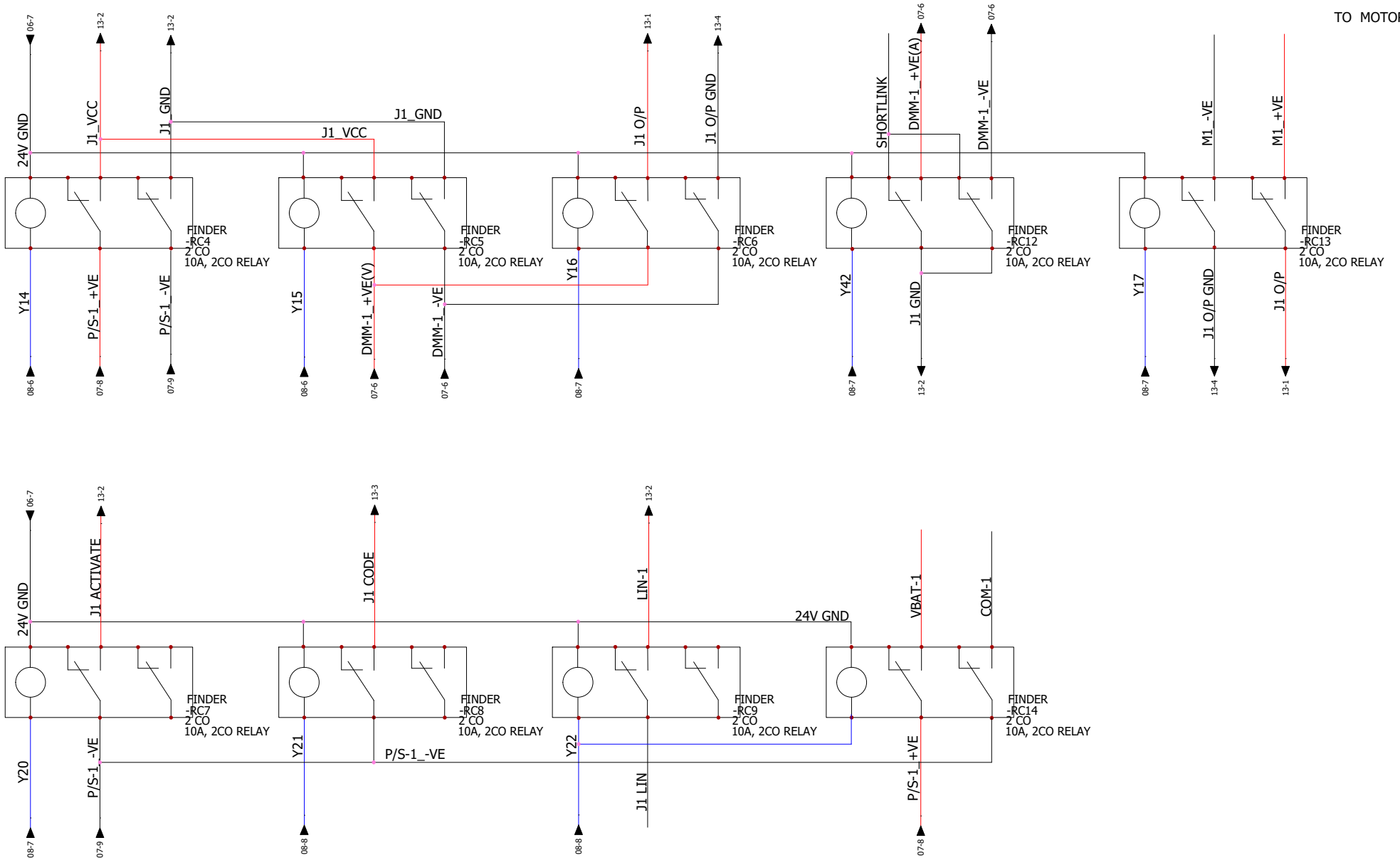
FIXTURE SIDE CONNECTOR

SOLIDWORKS Electrical

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	5/5/2025	Aarti Dhengle		SCHEME 13
		REV.	DATE	NAME	CHANGES	
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1	JOB	User data 2		

Document realized with version :2023.5.0.0052

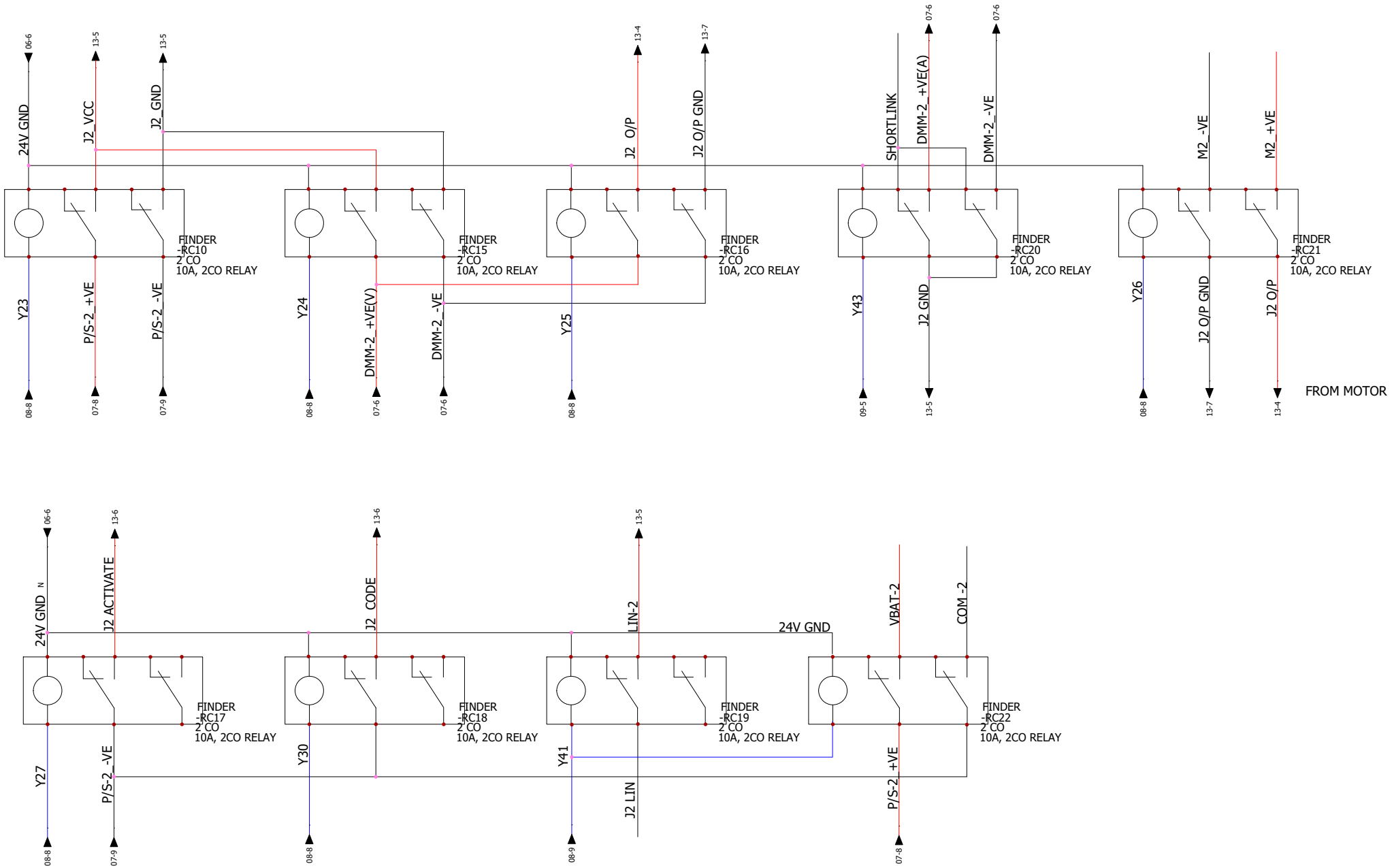
TO JOB THROUGH EDAC



Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL		REVISION 0
		0 4/24/2025 Aarti Dhengle REV. DATE NAME CHANGES	SCHEME 14
CONTRACT:	LOCATION: +L1 Main electrical closet	User data 1 Job-1 Relay	User data 2

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052



SOLIDWORKS Electrical

Artemistech Pvt Ltd
Indrayani Corner
MIDC Bhosari

L5-50 EOL

REV.	DATE	NAME	CHANGES
0	4/25/2025	Aarti Dhengle	

REVISION 0

SCHEME 15

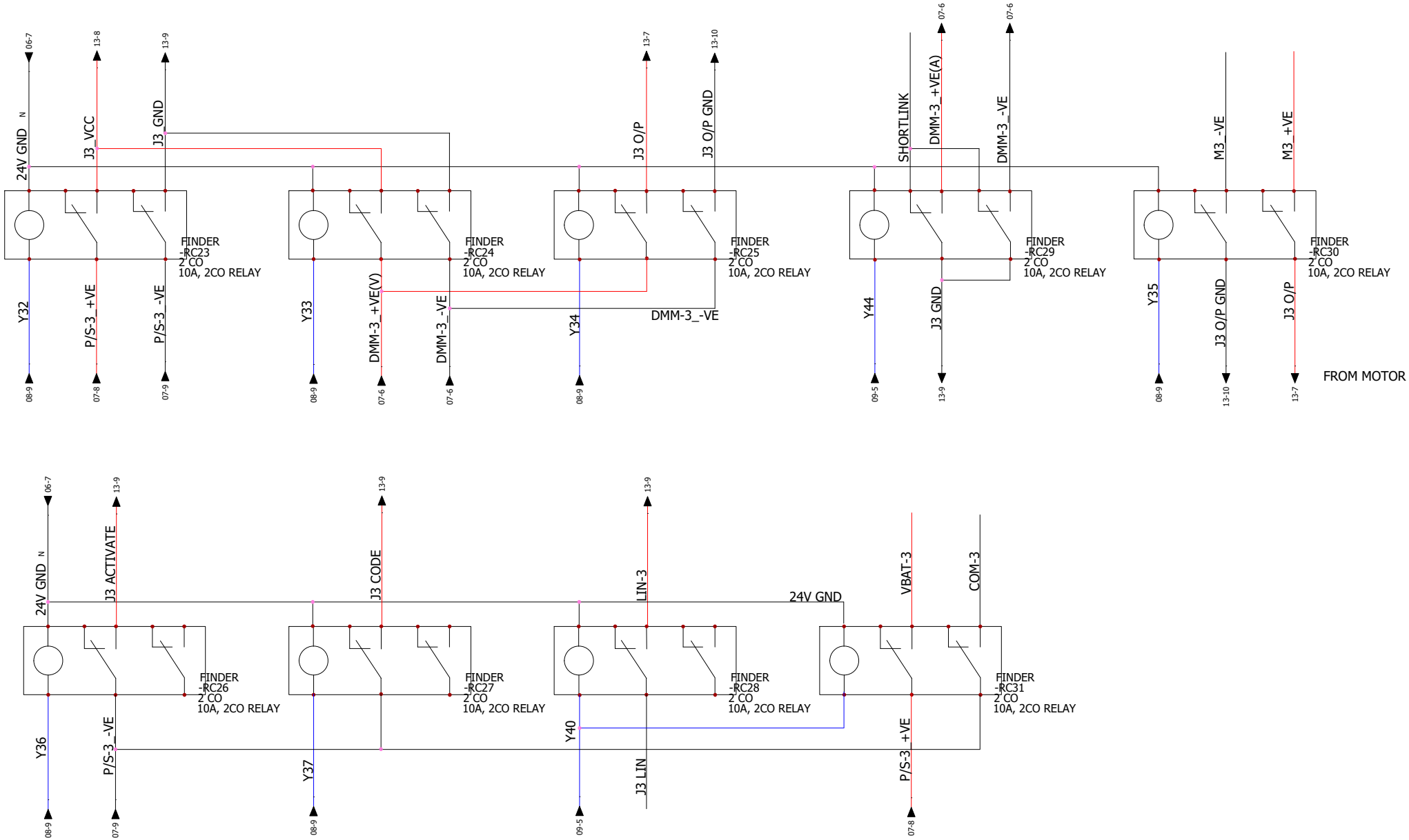
CONTRACT:

LOCATION: +L1 Main electrical closet

User data 1: Job-2 Relay

User data 2:

Document realized with version :2023.5.0.0052



Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 16

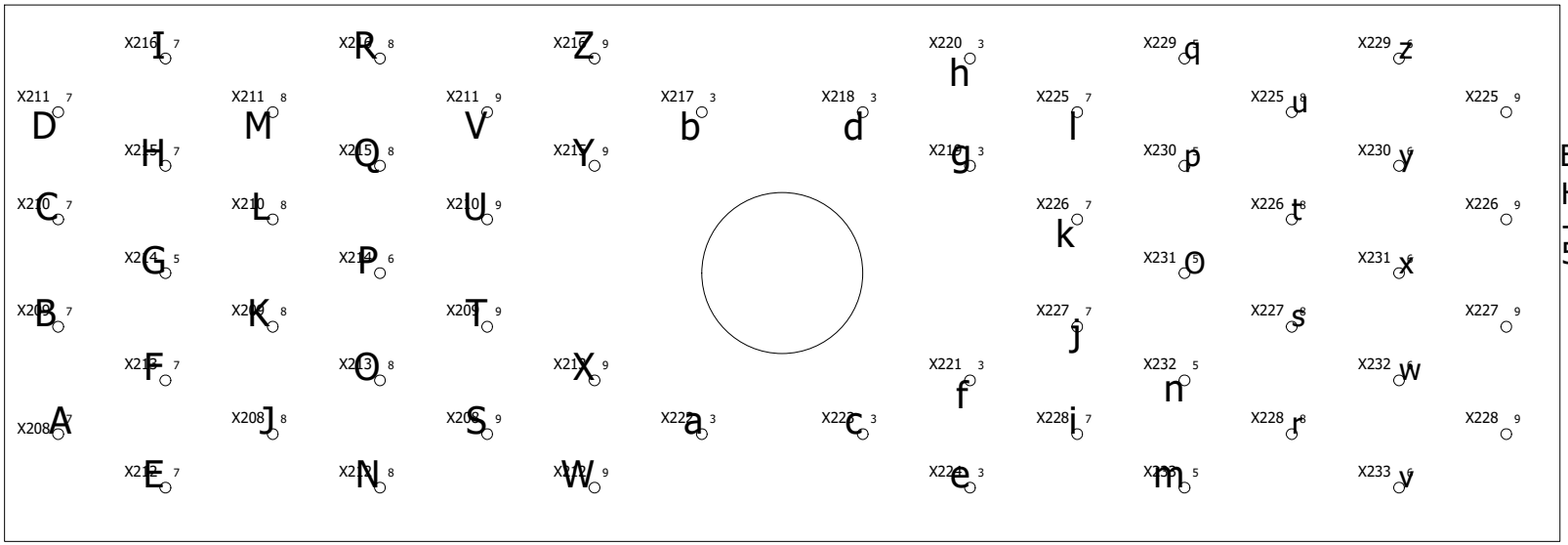
REV.	DATE	NAME	CHANGES
0	4/25/2025	Aarti Dhengle	

User data 1: Job-3 Relay

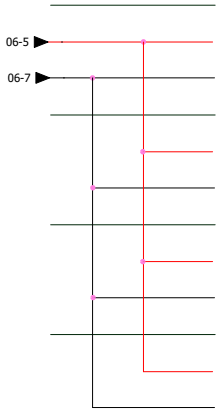
User data 2:

SOLIDWORKS Electrical

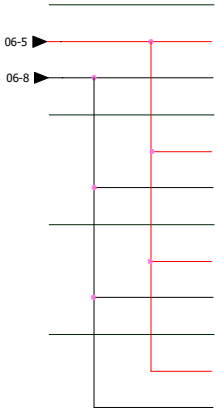
Document realized with version :2023.5.0.0052



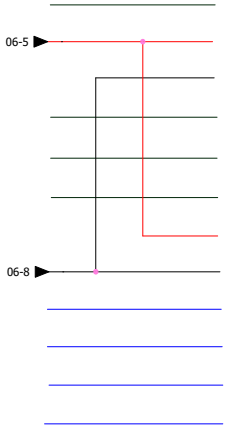
EDAC
HARTING CONNECTOR
-E2
56 PIN 2212



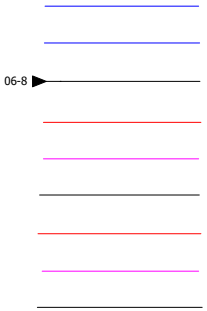
A - REED S/W-1
B - 24V
C - 24V GND
D - REED S/W-2
E - 24V
F - 24V GND
G - REED S/W-3
H - 24V
I - 24V GND
J - SENSOR-1
K - 24V
L - 24V GND



M - SENSOR-2
N - 24V
O - 24V GND
P - SENSOR-3
Q - 24V
R - 24V GND
S-
T-
U-
V-
W-
X-



Y -
Z -
a -
b -
c -
d -
e -
f -
g -
h -
i -
j -



k -
l -
m-
n-
o-
p-
q-
r-
s-

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL	REVISION 0
CONTRACT:	LOCATION: +L1 Main electrical closet	SCHEME 17

REV.	DATE	NAME	CHANGES
0	4/24/2025	Aarti Dhengle	

User data 1: EDAC
User data 2:

SOLIDWORKS Electrical

Document realized with version :2023.5.0.0052

ADVANTECH

	Reference	Mark	Description	Quantity
1	ARK-1551	-I1	i5 INDUSTRIAL PC	1

CYCLONE FX

	Reference	Mark	Description	Quantity
1	CYCLONE PROGRAMMER	-C1	AUTOMATED PROGRAMMER TEST & DEBUG INTERFACE	1

EDAC

	Reference	Mark	Description	Quantity
1	HARTING CONNECTOR	-E2	56 PIN 2212	1

ELCOM

	Reference	Mark	Description	Quantity
1	LINE FILTER	-Q3	16A	1

FINDER

	Reference	Mark	Description	Quantity
1	1CO	-RC1, -RC2, -RC3, -RC35, -RC36, -RC37, -RC38, -RC39, -RC40	12A, 1 CO	9
2	1CO RELAY	-R3	1 CO RELAY	1
3	2 CO	-R12, -R13, -R18, -R19, -R20, -R21, -RC4, -RC5, -RC6, -RC7, -RC8, -RC9, -RC10, -RC11, -RC12, -RC13, -RC14, -RC15, -RC16, -RC17, -RC18, -RC19, -RC20, -RC21, -RC22, -RC23, -RC24, -RC25, -RC26, -RC27, -RC28, -RC29, -RC30, -RC31	10A, 2CO RELAY, 2CO RELAY	34

GENUINE

	Reference	Mark	Description	Quantity
1	FUSE	-F2, -F3	6 AMP, FUSE	2

GW-Instek

	Reference	Mark	Description	Quantity
1	PSP-2010	-PS1, -PS2, -PS3	PROGRAMMABLE POWER SUPPLY	3

LENOVO

	Reference	Mark	Description	Quantity
1	21.5 "	-D1	MONITOR	1

MITSUBISHI ELECTRIC

	Reference	Mark	Description	Quantity
1	FX5-16EYR/ES	-PD1, -PD2	16 I/O PLC CARD	2
2	FX5U-32M	-P2	PROGRAMMABLE LOGIC CONTROLLER	1

PHILIPS

	Reference	Mark	Description	Quantity
1	TUBELIGHT	-TBL1	2 Ft.	1

RIGOL

	Reference	Mark	Description	Quantity
1	DM858	-DMM1, -DMM2, -DMM3	DIGITAL MULTIMETER	3

ROMA

	Reference	Mark	Description	Quantity
1	S S COMBINE BOX	-SS2, -SS3, -SS4		3

SALZER

	Reference	Mark	Description	Quantity
1	16A 2 POLE	-LB1	LOAD BREAK SWITCH	1

SCHNEIDER ELECTRIC

	Reference	Mark	Description	Quantity
1	2 POLE 16 AMP	-MCB1	MCB	1
2	BX600I-IN	-SU1	APC BACK UPS	1

SCHUTZ

	Reference	Mark	Description	Quantity
1	SCZL3-WDT2	-H3	TOWER LAMP	1

SHAVISON

	Reference	Mark	Description	Quantity
1	SMPS	-S1	24V, 5A	1

SIBASS

	Reference	Mark	Description	Quantity
1	SIBASS	-M1, -M2	4 INCH	2

SMC Pneumatics

	Reference	Mark	Description	Quantity
1	Air Solenoid	-CC1, -CC2, -CC3	Solenoid Valve	3

SURAJ

	Reference	Mark	Description	Quantity
1	DOOR LIMIT SWITCH	-LS1		1

SOLIDWORKS Electrical

Artemistech Pvt Ltd Indrayani Corner MIDC Bhosari	L5-50 EOL			REVISION 0
		0	5/5/2025 Aarti Dhengle	SCHEME 21
CONTRACT:	LOCATION: +L1 Main electrical closet	REV. DATE NAME CHANGES	User data 1 / User data 2	

Document realized with version :2023.5.0.0052