

ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL

NOTES									
LEGEND									
REFERENCE DRAWING					DRG. No.				
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM					BK-GCS-PEDCO-120-EL-SL-0002				
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE					BK-GCS-PEDCO-120-EL-LD-0001				
ELECTRICAL OVERALL SINGLE LINE DIAGRAM					BK-GCS-PEDCO-120-EL-SL-0001				
ELECTRICAL I/O SIGNAL LIST					BK-GCS-PEDCO-120-EL-LI-0005				
KEY PLAN									
***	*****	** **	*** ****	** **				*** ****	
REV.	DESCRIPTION	BY	DATE	BY	DATE				
		CHECKED		REV. APPR.					
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میبایند.  THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION				BY:		DATE:			
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION			
053-073-9184	F	2	P	709041	01 OF 19	D08			

D08	SEP.2024	F1	H.SHAQIBA	M.FAKHARIAN	N.ADOOSTZADEH	** **																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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(VENDOR TITLE BLOCK)**

INDEX SHEET

SHEET No.	DESCRIPTION	D00	D01	D02	D03	D04	D05	D06	D07	D08
01	COVER SHEET	✓	✓	✓	✓	✓	✓	✓	✓	✓
02	INDEX SHEET	✓	✓	✓	✓	✓	✓	✓	✓	✓
03	ABBREVIATION & NOTES	✓	✓	✓	✓	✓				
04	SYMBOL & LEGEND (1/2)	✓	✓	✓	✓					
05	SYMBOL & LEGEND (2/2)	✓	✓	✓	✓	✓				
06	F1: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.	✓	✓	✓	✓					
07	F2: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=Δ<100A FEEDERS.	✓	✓	✓	✓					✓
08	F3: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=Δ FEEDERS.	✓	✓	✓	✓					✓
09	F4: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.	✓	✓	✓	✓					✓
10	F5: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=Δ<100A FEEDERS.	✓	✓	✓	✓					✓
11	F6: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=Δ FEEDERS.	✓	✓	✓	✓					✓
12	F7: SIMPLE 2–POLE MCCB FEEDER FOR FEEDING SINGLE PHASE LOADS (PH+N OR 2–PH)	✓	✓	✓	✓					
13	M1: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 0.4kW ≤ P < 4kW	✓	✓	✓	✓	✓	✓	✓		✓
14	M2: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 4kW ≤ P < 18.5kW	✓	✓	✓	✓	✓	✓	✓		✓
15	M3: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 18.5kW ≤ P < 30kW	✓	✓	✓	✓	✓	✓	✓		✓
16	M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30kW ≤ P & AND HAZARDOUS AREA	✓	✓	✓	✓	✓	✓	✓		✓
17	F8: SIMPLE 3–POLE MCCB FEEDER WITH CONTACTOR (PH+N OR 2PH)						X	X	✓	✓
18	F9: SIMPLE 3–POLE MCCB FEEDER WITH CONTACTOR (3PH+N)						X	X	✓	✓
19	M5: DIRECT ON LINE MOTOR STARTER FEEDERS FOR PACKAGE FROM UCP						X	X	✓	✓
20	C02: COUPLING 2						X	X		
21	IN3: INCOMING FROM DIESEL GENERATOR						X	X		
22	INCOMING 1 (CB1)						X	X		
23	INCOMING 2 (CB2)						X	X		
24	COUPLING 1 (BT1)						X	X		
25	COUPLING 1 (BT1)						X	X		
26	COUPLING 1 (BT1)						X	X		
27	COUPLING 1 (BT1)						X	X		
28	COUPLING 2 (BT2)						X	X		
29	COUPLING 2 (BT2)						X	X		
30	INCOMING 3 (CB3)						X	X		

D08	SEP.2024	F1	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	** **										
D07	SEP.2023	F1	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	** **										
D06	MAY.2023	F1	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	** **										
D05	JAN.2023	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **										
D04	NOV.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **										
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D02	MAY.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	***	*****	** **	***.***	** **	***.***				
D01	APR.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE				
D00	DEC.2021	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **			CHECKED		REV. APPR.					
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EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
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DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
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SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION			
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			02 OF 19	D08	053-073-9184	F	2	P	709041	02 OF 19	D08			

(VENDOR TITLE BLOCK)**

1 – ABBREVIATIONS

Q:	MAIN SWITCHING DEVICE	PE:	PROTECTING EARTH
K1:	MAIN CONTACTOR	SP:	SPRING CHARGED CONTACT
MPCB:	MOTOR PROTECTION CIRCUIT BREAKER	SP:	STOP P/B
MCCB:	MOULDED CASE CIRCUIT BREAKER	ST:	START P/B
MCB:	MINIATURE CIRCUIT BREAKER	CBT:	COMMON CIRCUIT BREAKER TRIP
KA:	AUXILIARY RELAY NO.#	CBR:	COMMON CIRCUIT READY
TC:	TRIP COIL OF CIRCUIT BREAKER (SHUNT TRIP)	CBF:	COMMON CIRCUIT FAULT
CB:	CIRCUIT BREAKER	CCB:	CIRCUIT BREAKER CLOSING COIL
CC:	CLOSE COMMAND	OCB:	CIRCUIT BREAKER OPENING COIL
OC:	OPEN COMMAND	DG:	DIESEL GENERATOR
P/B:	PUSH BUTTON	BT:	BUS TIE
PBC:	PUSH BUTTON CLOSE	CF:	CIRCUIT BREAKER FAULT
MST:	MANUAL SYNCHRON TRANSFER	CBR:	CIRCUIT BREAKER READY
AT:	AUTOMATIC TRANSFER	MAT:	MANUAL ASYNCHRON TRANSFER
DGCB:	DIESEL GENERATOR CIRCUIT BREAKER	MT:	MANUAL TRANSFER
ESD:	EMERGENCY SHUT DOWN	DGCP:	DIESEL GENERATOR CONTROL PANEL
MOF:	MAKE ON FAULT	LCS:	LOCAL CONTROL STATION
BOF:	BREAK ON FAULT	IRP:	INTERPOSING RELAY PANEL

2 – CATEGORY DESCRIPTION

- ALL SWITCH FUSES SHALL BE EQUIPPED WITH STRIKER PIN.
- LV NON MOTOR TYPE FEEDERS INCLUDE 400A & ABOVE SHALL BE ACB INSTEAD OF MCCB.
- START COMMAND FROM DCS & STOP COMMAND FROM ESD & DCS HAVE BEEN CONSIDERED FOR MOTOR TYPE FEEDER. IF THERE ARE NOT, THESE FACILITIES SHALL BE DELETED.
- CONTROL CIRCUIT VOLTAGE FOR INCOMINGS & COUPLERS IS 110 VDC WHICH WILL BE SUPPLIED BY NEW CHARGER SYSTEM INSTALLED IN SWITCHGEAR ROOM.
- CONTROL CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED FOR EACH LV CUBICLE. IN OTHER WORDS FOR EACH LV CUBICLE ONE ISOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.
- EMERGENCY STOP & START PUSH BUTTON SHALL BE CONSIDERED ON INCOMINGS & BUS–TIES.
- HEATER/S IN EACH CUBICLE WILL BE PROTECTED BY A MINIATURE CIRCUIT BREAKER AND AN EARTH LEAKAGE PROTECTION DEVICE OR RESIDUAL CIRCUIT BREAKER OF 30MA SENSITIVITY,THE HEATERS WILL BE FED BY INTERNAL SUPPLY WITH REDUNDANCY CIRCUIT THAT FEEDING THE HEATERS IN ONE SECTION OF THE SWITCHGEAR WILL BE FED FROM THE OPPOSITE SECTION OF THE BUS BAR.
- SWITCH–FUSE COMBINATION UNITS SHALL COMPLY WITH SUITABLE FOR UNINTERRUPTED DUTY, UTILIZATION CATEGORY AC–23
- FOR FEEDER WITH TYPE M3&M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR.
- MICROPROCESSOR TYPE PROTECTIVE RELAYS SHALL BE EQUIPPED WITH RS 485 TO SEND SIGNALS BY SERIAL LINK

3– VENDOR SHALL CONSIDER ”CONTROL LOGIC DIAGRAM FOR LV INCOMERS AND BUS TIE”
(BK–GCS–PEDCO–120–EL–LD–0001)” & ”LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM
(BK–GCS–PEDCO–120–EL–SL–0002)” AS REFERENCES FOR METERING & SCHEMATIC DIAGRAM OF INCOMINGS.

NOTES	

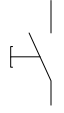
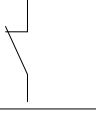
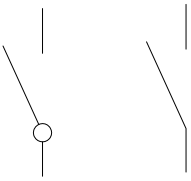
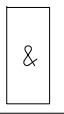
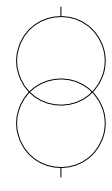
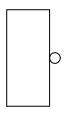
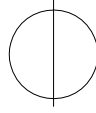
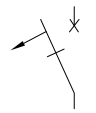
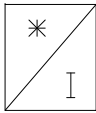
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KEY PLAN	

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ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION			BY:		DATE:									
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.		SHEET	REVISION							
NTS	A3	BK–GCS–PEDCO–120–EL–DG–0002			03 OF 19	D08	053–073–9184	F	2	P	709041		03 OF 19	D08							

(VENDOR TITLE BLOCK)**

NOTES											
LEGEND											
REFERENCE DRAWING											
DRG. No.											
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM											
BK-GCS-PEDCO-120-EL-SL-0002											
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE											
BK-GCS-PEDCO-120-EL-LD-0001											
ELECTRICAL OVERALL SINGLE LINE DIAGRAM											
BK-GCS-PEDCO-120-EL-SL-0001											
ELECTRICAL I/O SIGNAL LIST											
BK-GCS-PEDCO-120-EL-LI-0005											
KEY PLAN											
SYMBOLS											
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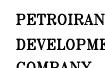
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	PUSH BUTTON, NORMALLY OPEN CONTACT		VOLTAGE SELECTOR SWITCH
	PUSH BUTTON, NORMALLY CLOSE CONTACT		AMMETER SELECTOR SWITCH
	NORMALLY CLOSE CONTACT		SWITCHING DEVICE (GENERAL SYMBOL)
	LAMP (FOR LIGHTING)		
	SOCKET		CONTACTOR (CONTACT OPEN IN THE UNOPERATED POSITION)
	SPACE HEATER		AND LOGIC
	TRANSFORMER		OR LOGIC
			NOT LOGIC
	INDUCTOR, REACTOR, SPRING		FUSE GENERAL SYMBOL
	CURRENT TRANSFORMER		MINIATURE CIRCUIT BREAKER (MCB)
	TRANSDUCER 4-20mA I: CURRENT V: VOLTAGE P: ACTIVE POWER Q: REACTIVE POWER		TERMINALS OF SWITCHGEAR
			VOLTMETER
	EARTH		AMMETER

NOTES					

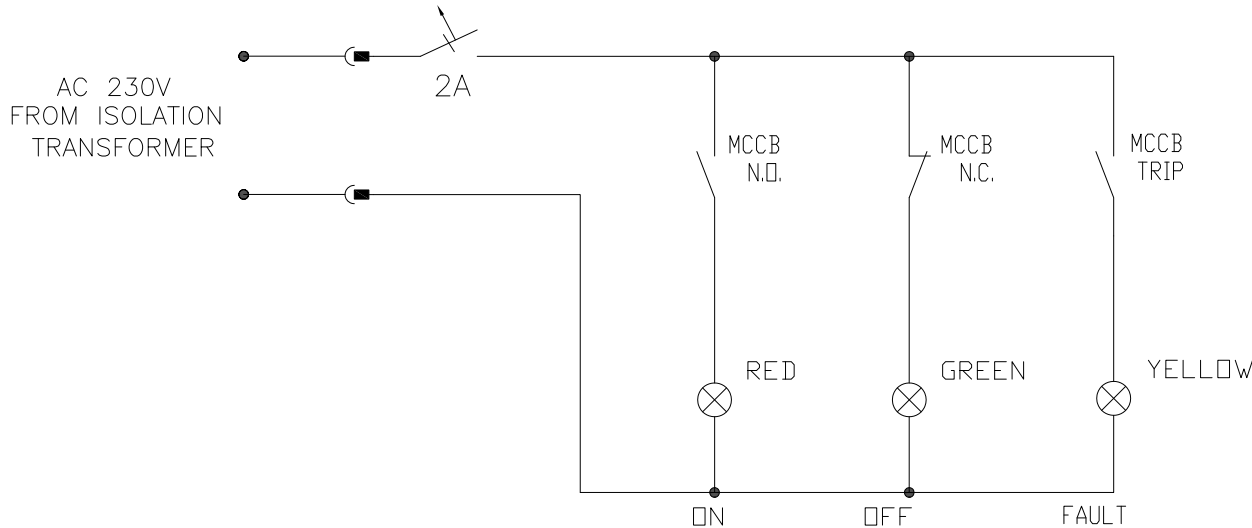
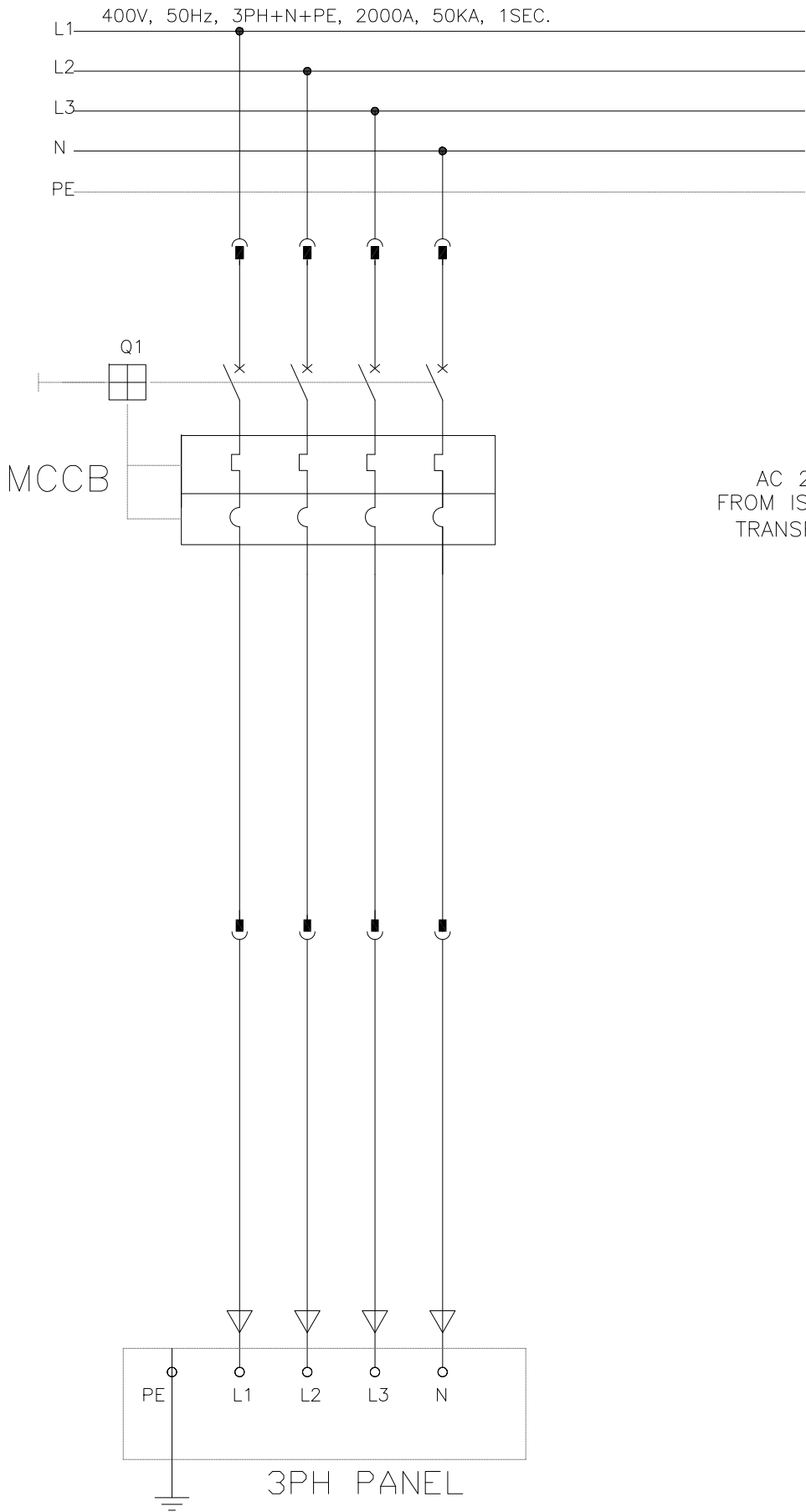
LEGEND					

REFERENCE DRAWING		DRG. No.
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM		BK-GCS-PEDCO-120-EL-SL-0002
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE		BK-GCS-PEDCO-120-EL-LD-0001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM		BK-GCS-PEDCO-120-EL-SL-0001
ELECTRICAL I/O SIGNAL LIST		BK-GCS-PEDCO-120-EL-LI-0005

KEY PLAN					

D08	SEP.2024	FI	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	** **																
D07	SEP.2023	FI	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	** **																
D06	MAY.2023	FI	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	** **																
D05	JAN.2023	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **																
D04	NOV.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **																
D03	JUL.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **																
D02	MAY.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	***	*****	** **	***.***	** **	***.***										
D01	APR.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE										
D00	DEC.2021	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **			CHECKED		REV. APPR.											
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب مي باشد.															
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS						
PROJECT NO.:							971020															
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION															
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PEDCO				 PETROIRAN DEVELOPMENT COMPANY									DATE			SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED															
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION			BY:		DATE:										
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION									
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			05 OF 19	D08	053-073-9184	F	2	P	709041	05 OF 19	D08									

(VENDOR TITLE BLOCK)**



F1: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.

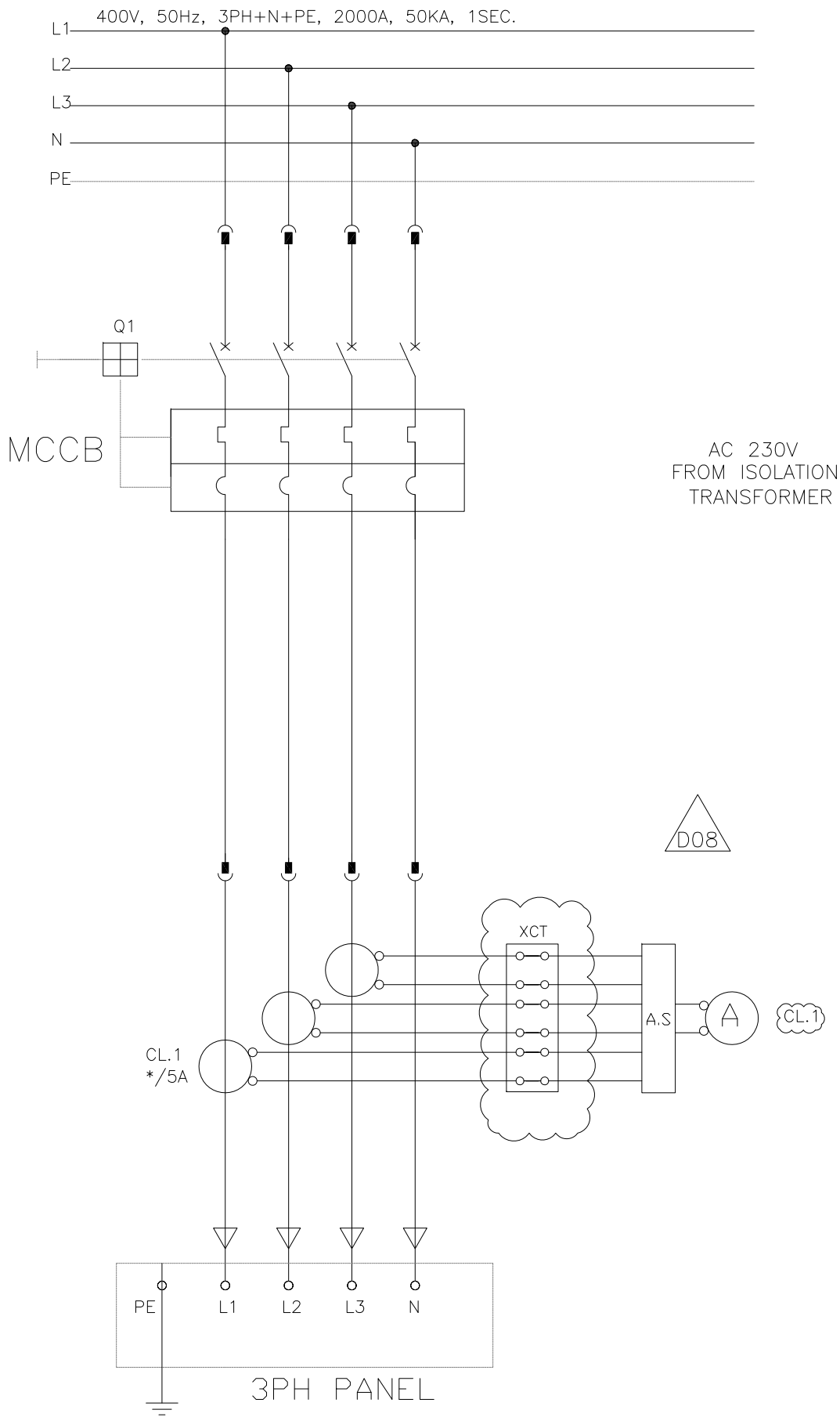
NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0002
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE	BK-GCS-PEDCO-120-EL-LD-0001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
ELECTRICAL I/O SIGNAL LIST	BK-GCS-PEDCO-120-EL-LI-0005

KEY PLAN

D08	SEP.2024	F1	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	***																	
D07	SEP.2023	F1	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	***																	
D06	MAY.2023	F1	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	***																	
D05	JAN.2023	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***																	
D04	NOV.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***																	
D03	JUL.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***																	
D02	MAY.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	*****	***	***	*****	***								
D01	APR.2022	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE	BY	DATE	BY								
D00	DEC.2021	IF1	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	***					CHECKED		REV. APPR.										
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.																	
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION									 THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS							
PROJECT NO.:							971020																
EPC CONTRACTOR:							EPD/EPC CONTRACTOR (GC):																
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES 							 PEDCO PETROIRAN DEVELOPMENT COMPANY							BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
							DATE							SCALE		DRAWING BY		CHECKED BY		PROJECT ENG.			
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED																
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION									BY:		DATE:					
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION										
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			06	OF 19	D08	053-073-9184	F	2	P	709041	06	OF 19	D08								



F2: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.

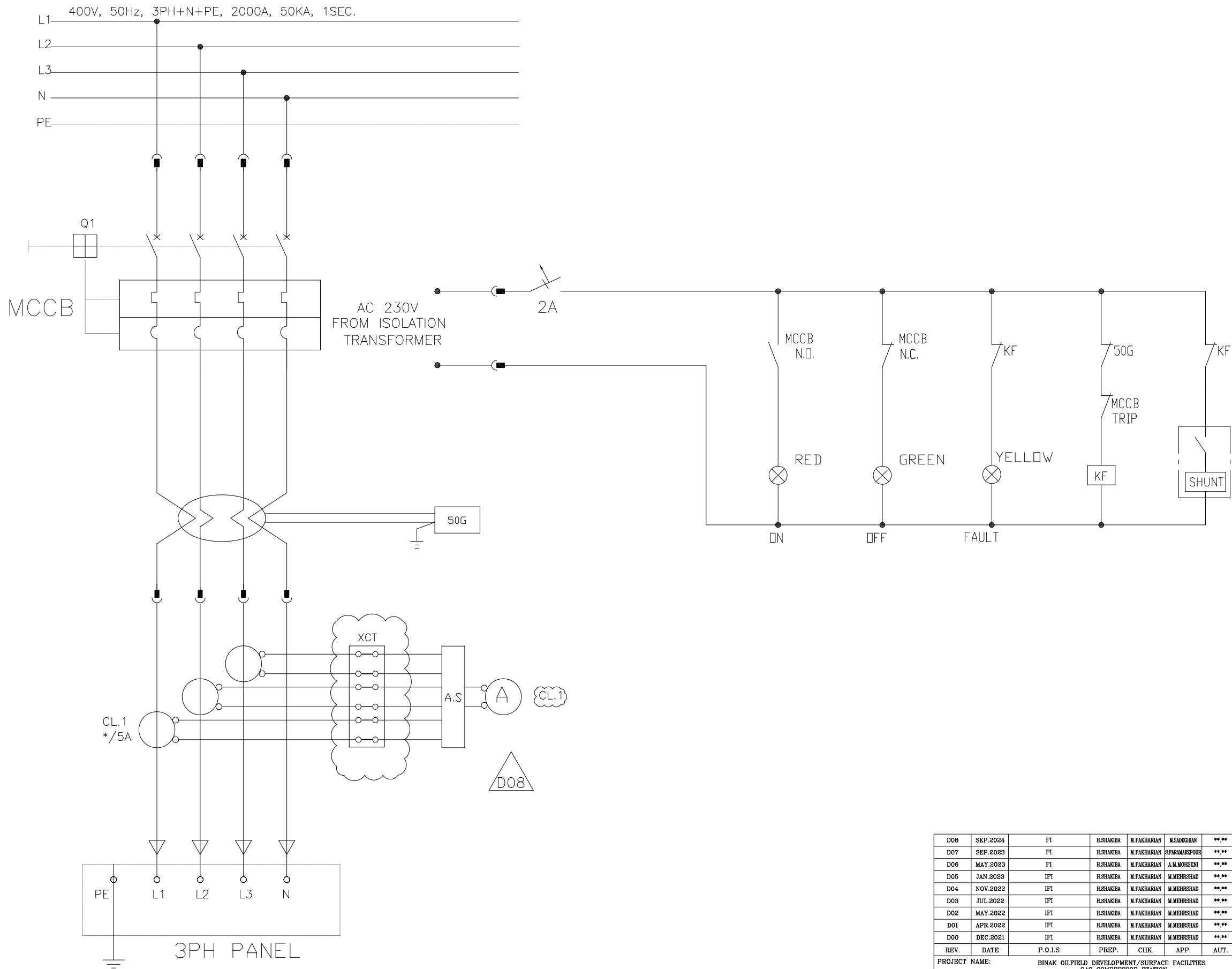
NOTES					

LEGEND					

REFERENCE DRAWING			DRG. No.		
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM			BK-GCS-PEDCO-120-EL-SL-0002		
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE			BK-GCS-PEDCO-120-EL-LD-0001		
ELECTRICAL OVERALL SINGLE LINE DIAGRAM			BK-GCS-PEDCO-120-EL-SL-0001		
ELECTRICAL I/O SIGNAL LIST			BK-GCS-PEDCO-120-EL-LI-0005		

KEY PLAN					

D08	SEP.2024	FI	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	** **													
D07	SEP.2023	FI	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	** **													
D06	MAY.2023	FI	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	** **													
D05	JAN.2023	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **													
D04	NOV.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **													
D03	JUL.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **													
D02	MAY.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	***	*****	** **	*** ****	** **	*** ****							
D01	APR.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE							
D00	DEC.2021	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **					CHECKED		REV. APPR.						
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب مي باشد.												
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION											THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS	
PROJECT NO.:							971020												
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION												
HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			PEDCO				PETROIRAN DEVELOPMENT COMPANY												
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED												
							ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION				BY:	DATE:
SCALE	SIZE	DRAWING NO.			SHEET NO.		REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION					
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			07 OF 19		D08	053-073-9184	F	2	P	709041	07 OF 19	D08					



F3: SIMPLE 4-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS.

NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0002
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE	BK-GCS-PEDCO-120-EL-LD-0001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
ELECTRICAL I/O SIGNAL LIST	BK-GCS-PEDCO-120-EL-LI-0005

KEY PLAN

D08	SEP.2024	FI	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	** **
D07	SEP.2023	FI	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	** **
D06	MAY.2023	FI	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	** **
D05	JAN.2023	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D04	NOV.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D03	JUL.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D02	MAY.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D01	APR.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D00	DEC.2021	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **

PROJECT NAME:					BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION				
PROJECT NO.:					971020				
EPC CONTRACTOR:					EPD/EPC CONTRACTOR (GC):				
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES					 PETROIRAN DEVELOPMENT COMPANY				
DRAWING TITLE:									
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL									
SCALE	SIZE	DRAWING NO.				SHEET NO.		REV.	
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002				08 OF 19		D08	



اصل و کلیه نسخ این نقشه و حق امتیاز متعلق به شرکت ملی مناطق فز خیز جنوب می باشد.

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N.I.S.O.C./ FIELDS

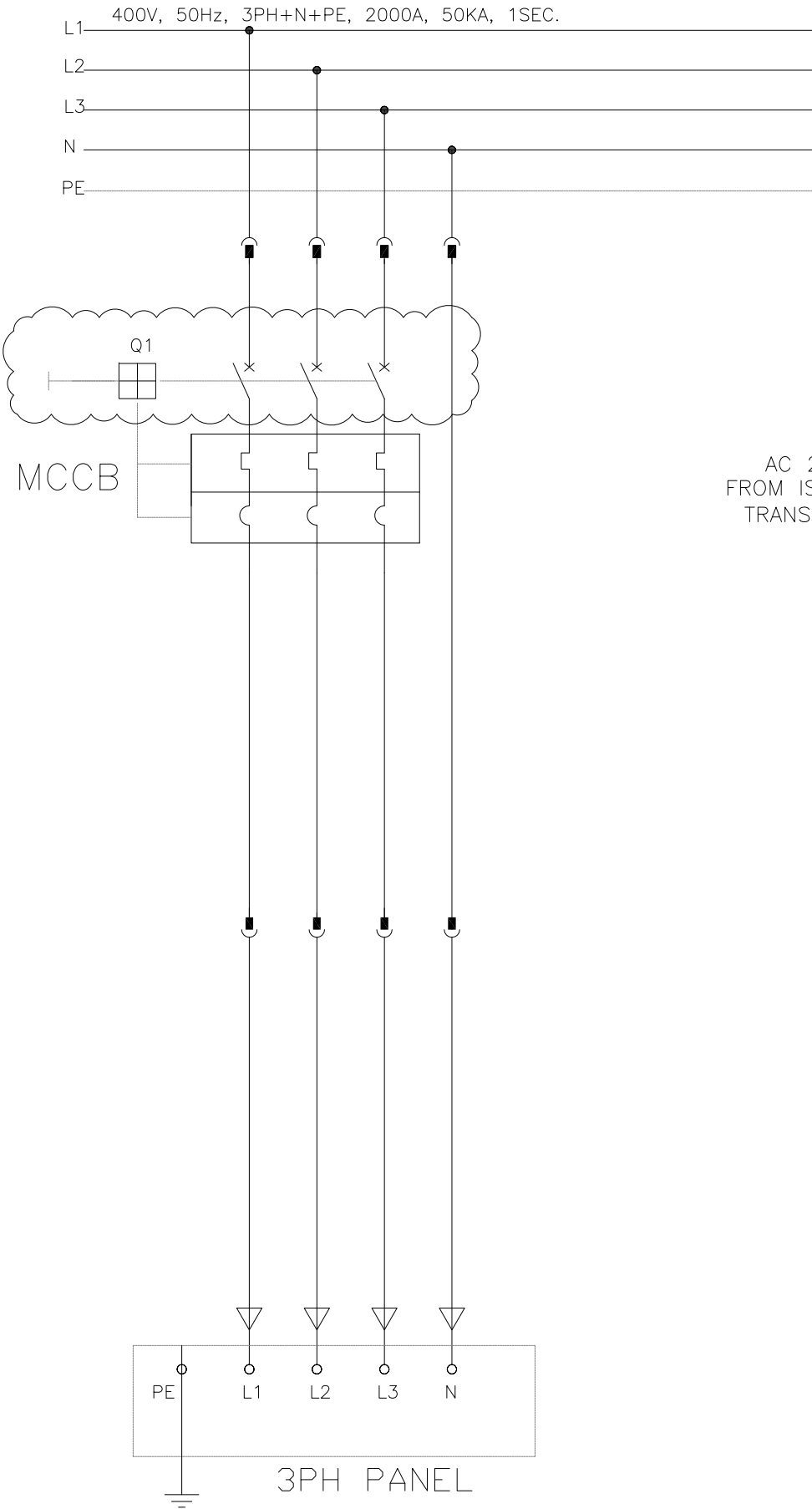
**BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION**

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	

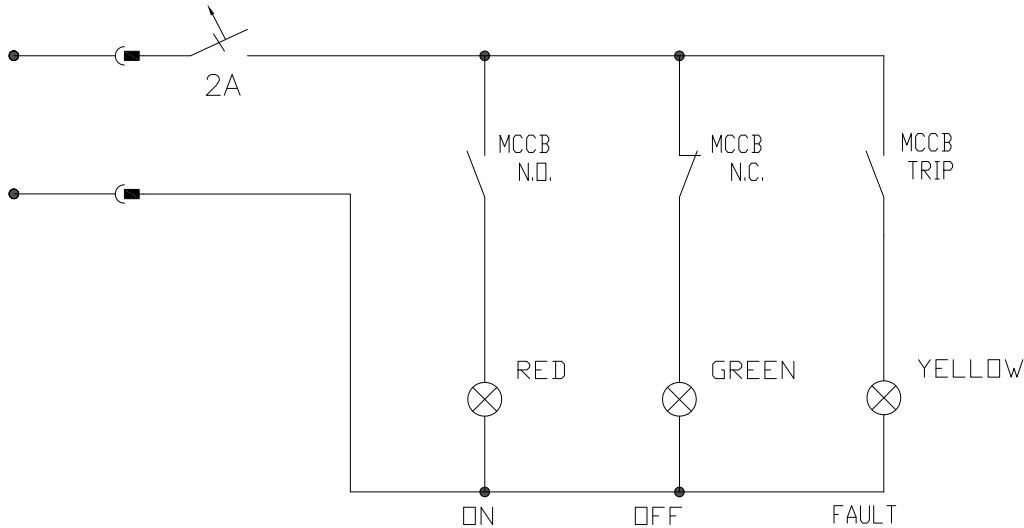
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	2 P	709041	08 OF 19	D08

D08



AC 230V
FROM ISOLATION
TRANSFORMER



F4: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.

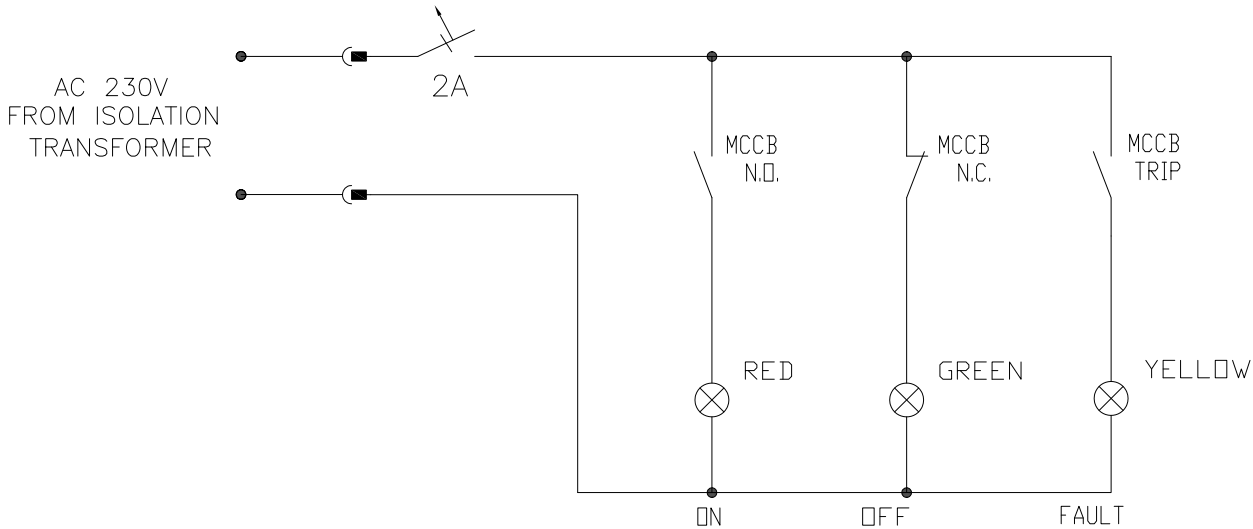
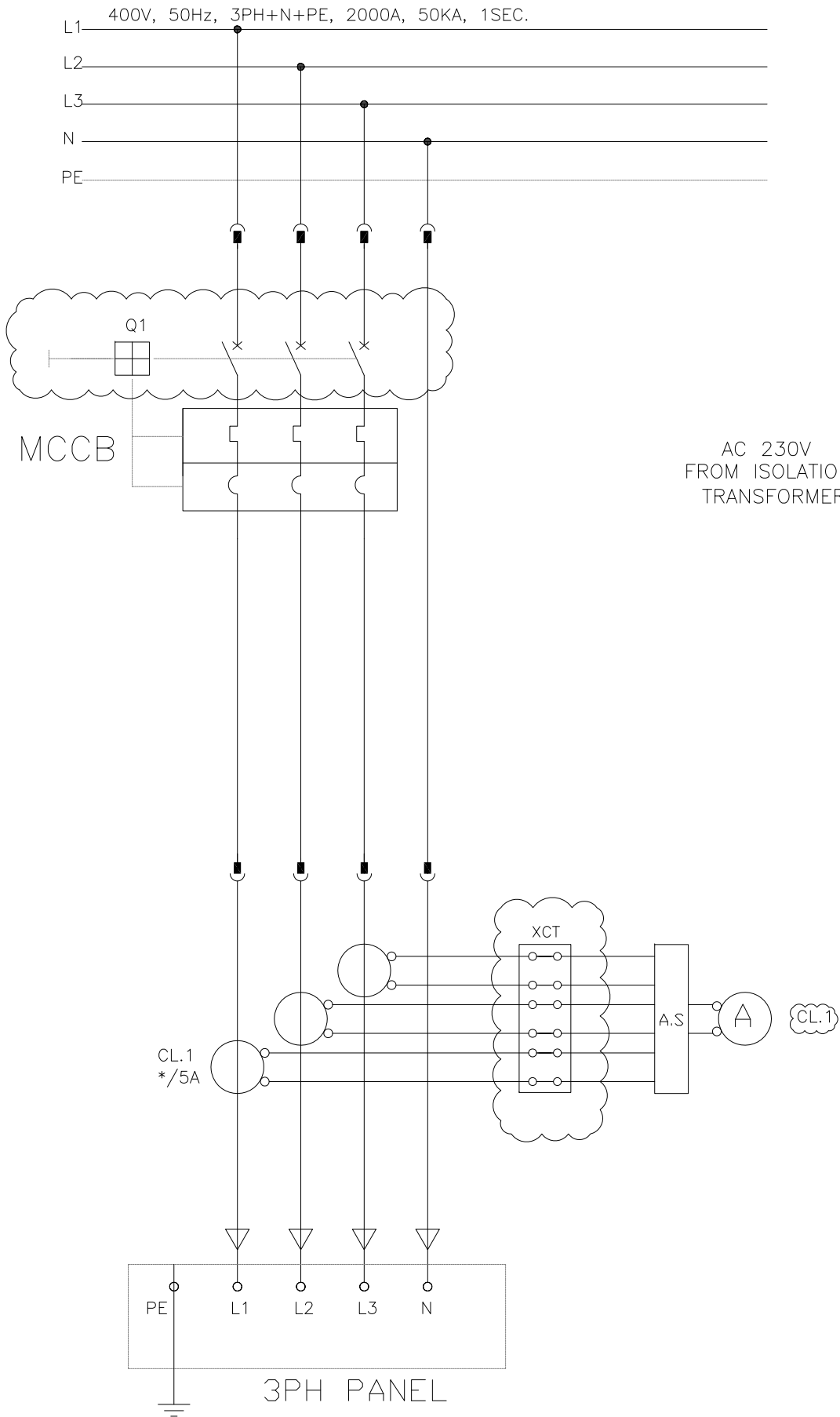
NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0002
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE	BK-GCS-PEDCO-120-EL-LD-0001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
ELECTRICAL I/O SIGNAL LIST	BK-GCS-PEDCO-120-EL-LI-0005

KEY PLAN

D08	SEP.2024	FI	H.SHAKIBA	M.FAKHARIAN	M.SADDEGHIAN	***										
D07	SEP.2023	FI	H.SHAKIBA	M.FAKHARIAN	S.PARAMARZPOOR	***										
D06	MAY.2023	FI	H.SHAKIBA	M.FAKHARIAN	A.M.MOHSSENI	***										
D05	JAN.2023	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***										
D04	NOV.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***										
D03	JUL.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***										
D02	MAY.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***.****	***	***	***.****	***	***	***.****
D01	APR.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE				
D00	DEC.2021	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***					CHECKED		REV. APPR.			
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کليه نسخ اين نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خيز جنوب مي باشد.									
PROJECT NAME:							THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF  N.I.S.O.C./ FIELDS									
PROJECT NO.:			971020													
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY													
							DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION BY: DATE:									
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION			
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			09 OF 19	D08	053-073-9184	F	2	P	709041	09 OF 19	D08			



F5: SIMPLE 3-POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.

NOTES

LEGEND

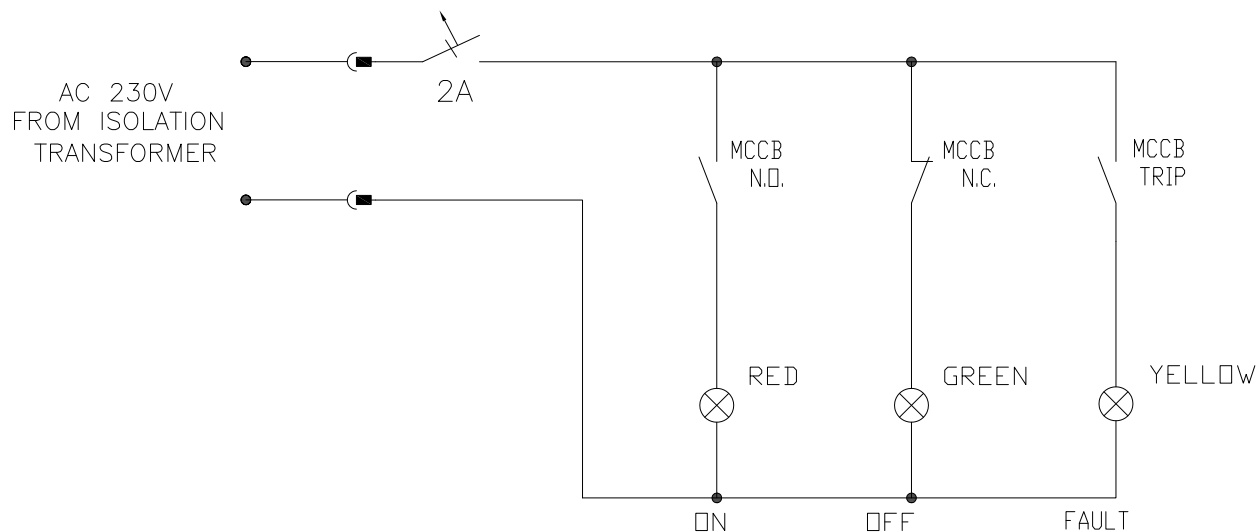
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CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE	BK-GCS-PEDCO-120-EL-LD-0001
ELECTRICAL OVERALL SINGLE LINE DIAGRAM	BK-GCS-PEDCO-120-EL-SL-0001
ELECTRICAL I/O SIGNAL LIST	BK-GCS-PEDCO-120-EL-LI-0005

KEY PLAN

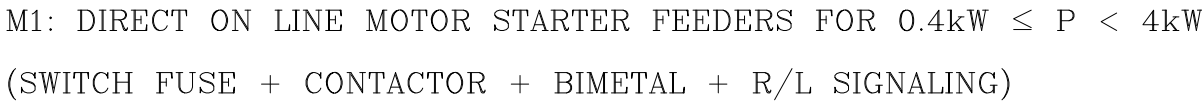
D08	SEP.2024	FI	H.SHAKIBA	M.FAKHARIAN	M.SADDEGHIAN	***									
D07	SEP.2023	FI	H.SHAKIBA	M.FAKHARIAN	S.PARAMARZPOOR	***									
D06	MAY.2023	FI	H.SHAKIBA	M.FAKHARIAN	A.M.MOHESEN	***									
D05	JAN.2023	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
D04	NOV.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
D03	JUL.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***									
D02	MAY.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	***	*****	***	***	*****	***	***	*****	***
D01	APR.2022	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***	REV.	DESCRIPTION	BY	DATE	BY	DATE	BY	DATE	BY
D00	DEC.2021	IFI	H.SHAKIBA	M.FAKHARIAN	M.MEHRSHAD	***					CHECKED		REV. APPR.		
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.								
PROJECT NAME:							THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS								
PROJECT NO.:							971020								
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION								
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY				DATE								
DRAWING TITLE:							NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED								
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL							APPROVED FOR CONSTRUCTION BY: DATE:								
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION		
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002			10	OF 19	D08	053-073-9184	F	2	P	709041	10	OF 19	D08



NOTES					
LEGEND					
REFERENCE DRAWING			DRG. No.		
LV SWITCHGEAR/MCC SINGLE LINE DIAGRAM			BK-GCS-PEDCO-120-EL-SL-0002		
CONTROL LOGIC DIAGRAM FOR LV INCOMERS & BUS TIE			BK-GCS-PEDCO-120-EL-LD-0001		
ELECTRICAL OVERALL SINGLE LINE DIAGRAM			BK-GCS-PEDCO-120-EL-SL-0001		
ELECTRICAL I/O SIGNAL LIST			BK-GCS-PEDCO-120-EL-LI-0005		
KEY PLAN					
***	*****	** **	*** ****	** **	*** *****
REV.	DESCRIPTION	BY	DATE	BY	DATE
		CHECKED		REV. APPR.	
اصل و کلیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.  THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS					
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
APPROVED FOR CONSTRUCTION			BY:	DATE:	
BUDGET REF.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION
053-073-9184	F	Z P	709041	11 OF 19	D08



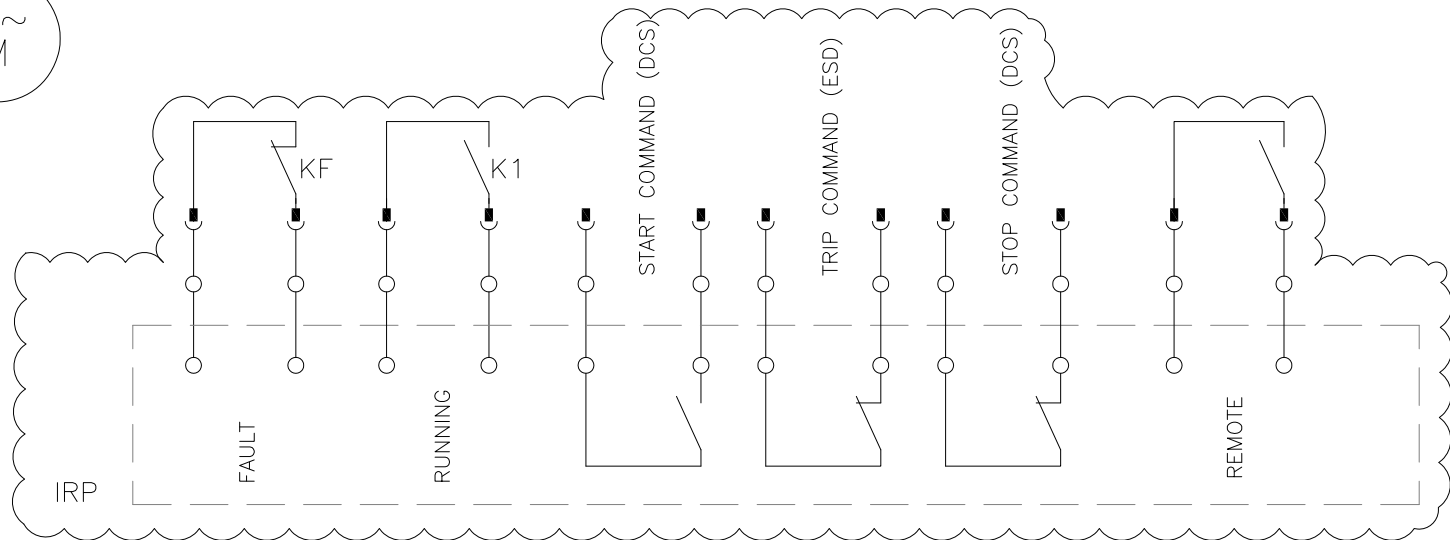
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D07	SEP.2023	F1	H.SHAQIBA	M.FAKHARIAN	S.PARAMARIZPOUR	** * **
D06	MAY.2023	F1	H.SHAQIBA	M.FAKHARIAN	A.M.MOHSENI	** **
D05	JAN.2023	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D04	NOV.2022	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D03	JUL.2022	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D02	MAY.2022	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D01	APR.2022	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
D00	DEC.2021	IF1	H.SHAQIBA	M.FAKHARIAN	M.MEHRSHAD	** **
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION						
PROJECT NO.:			971020			
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):			
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY			
			BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION			
DATE		SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.	
DRAWING TITLE:						
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL						
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED						
APPROVED FOR CONSTRUCTION				BY:		DATE:
BUDGET REP.	LOCATION	SIZE CLASS	SERIAL NO.	SHEET	REVISION	
NTS	A3	BK-GCS-PEDCO-120-EU-DG-0002	12 OF 19	D08	063-073-9184	D08



اصل و کلیہ نسخہ این نقشہ و حق اقتباس متعلق بہ شرکت ملی مناطق نفت خیز جنوب میباشد.

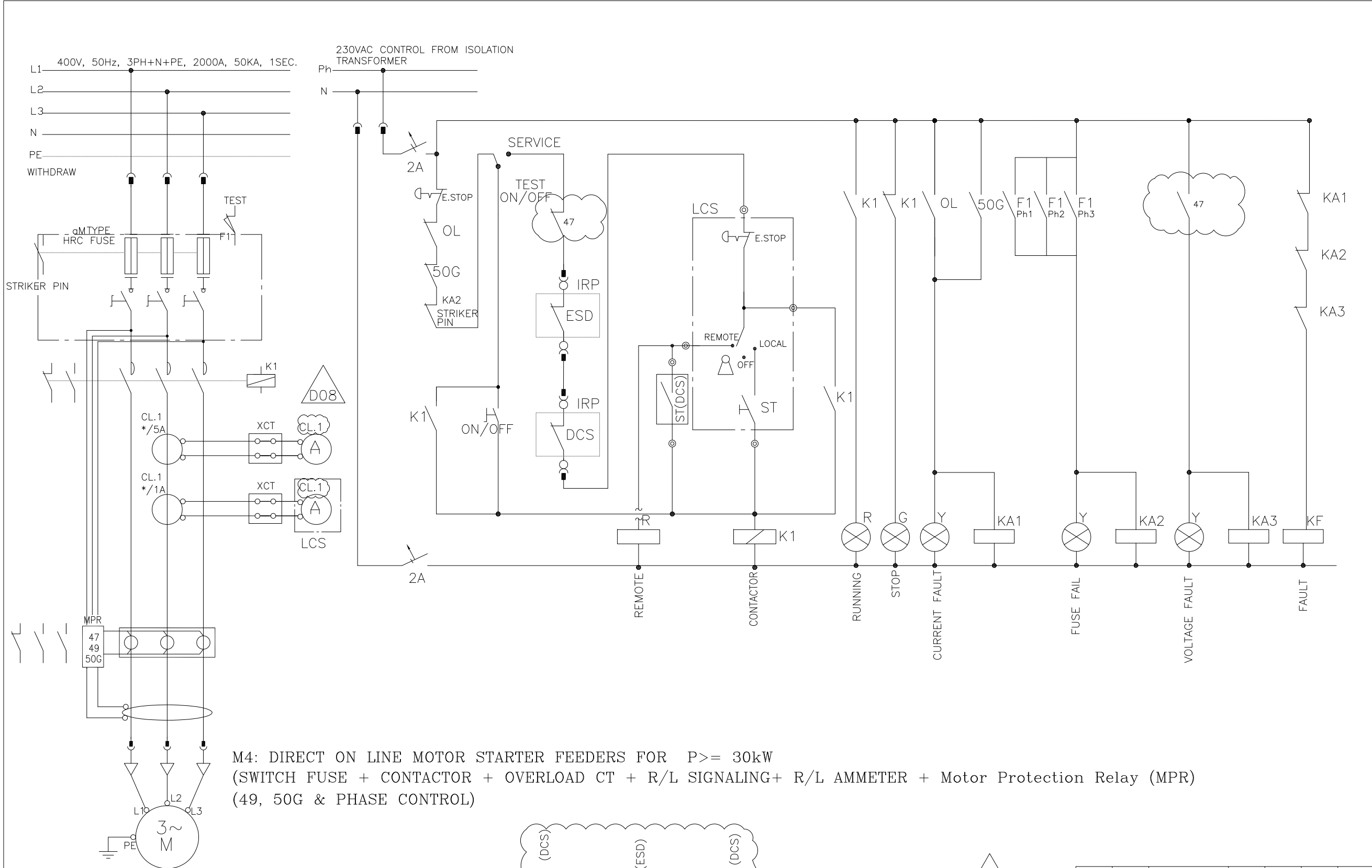
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BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION							
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							
APPROVED FOR CONSTRUCTION			BY:	DATE:			
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION	
063-073-9184	F	2	P	709041	13 OF 19	D08	

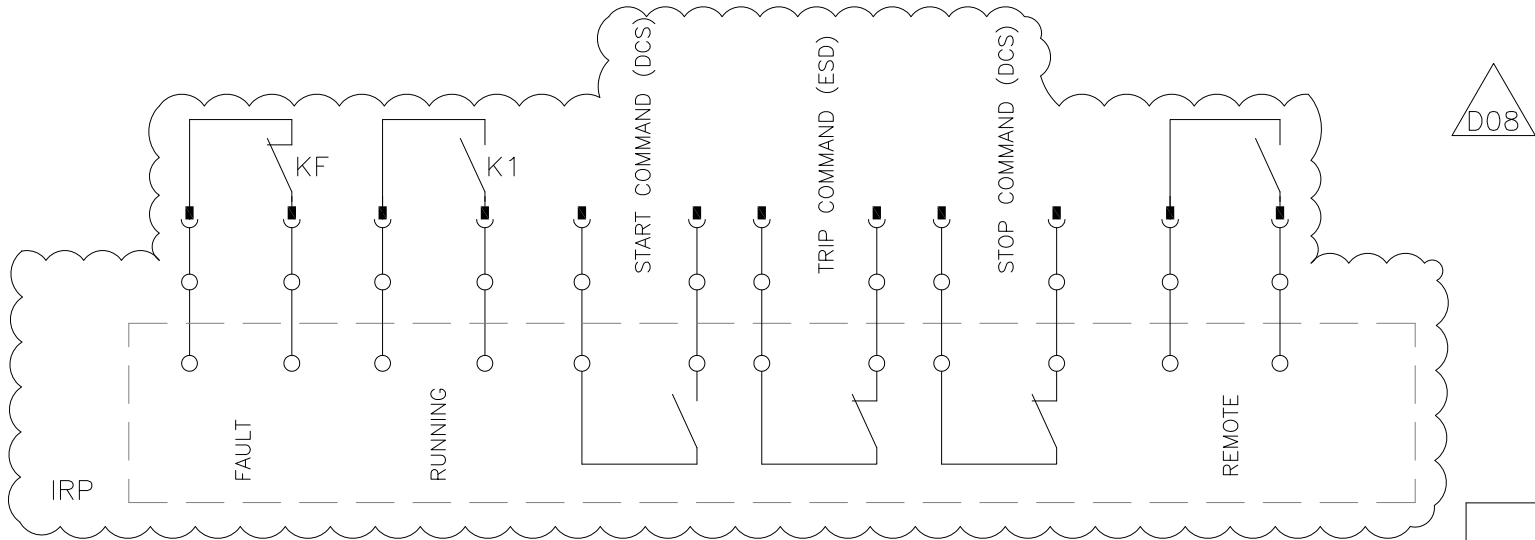


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 BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION				
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED				
APPROVED FOR CONSTRUCTION			BY:	DATE:
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053-073-9184	F	2 P	709041	14 OF 19 D08

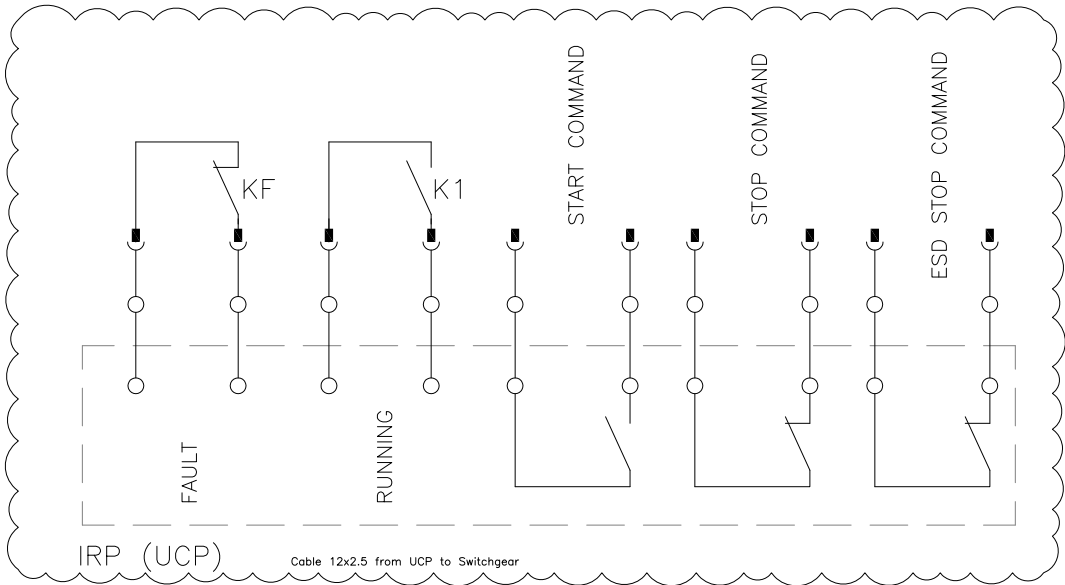
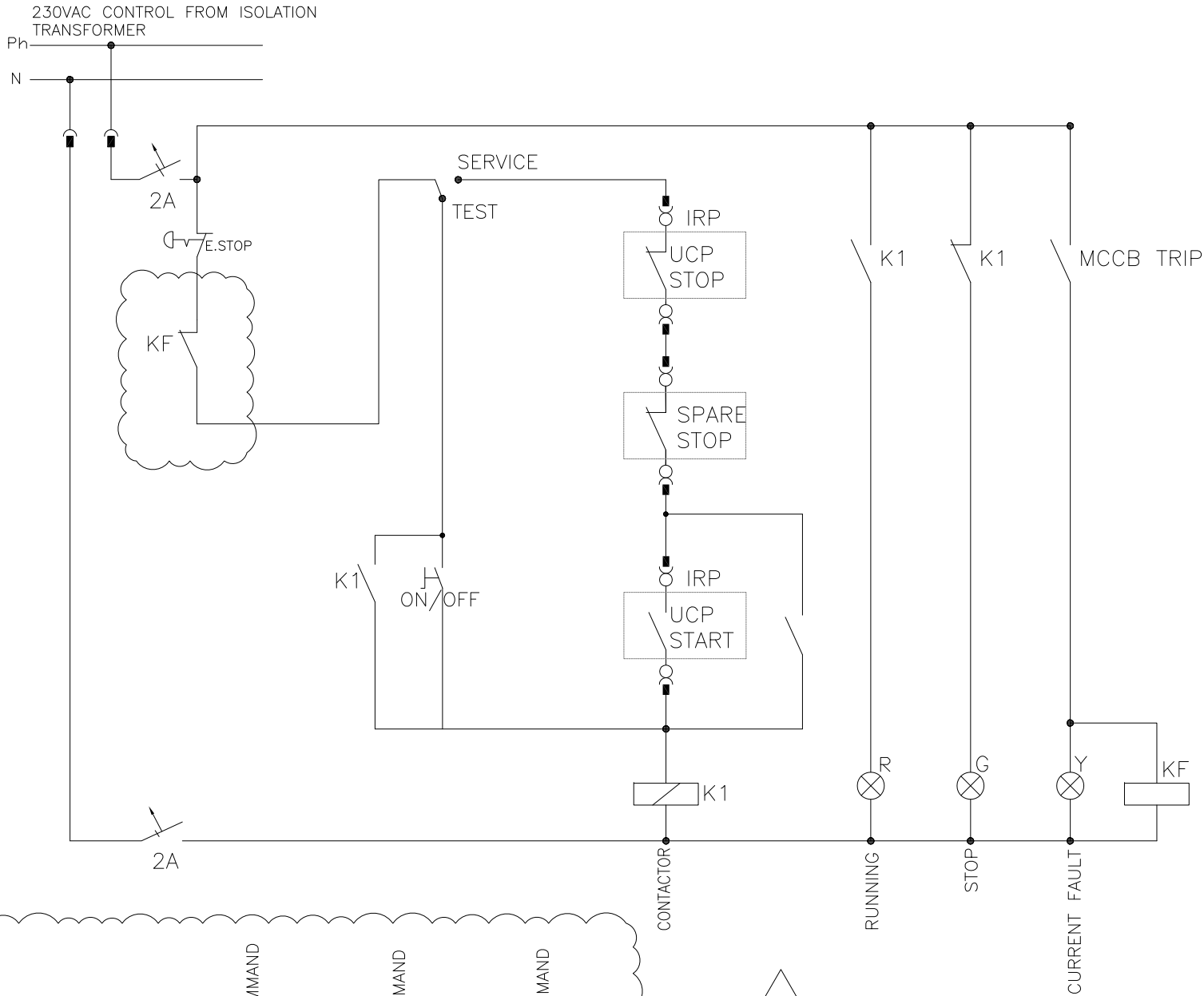
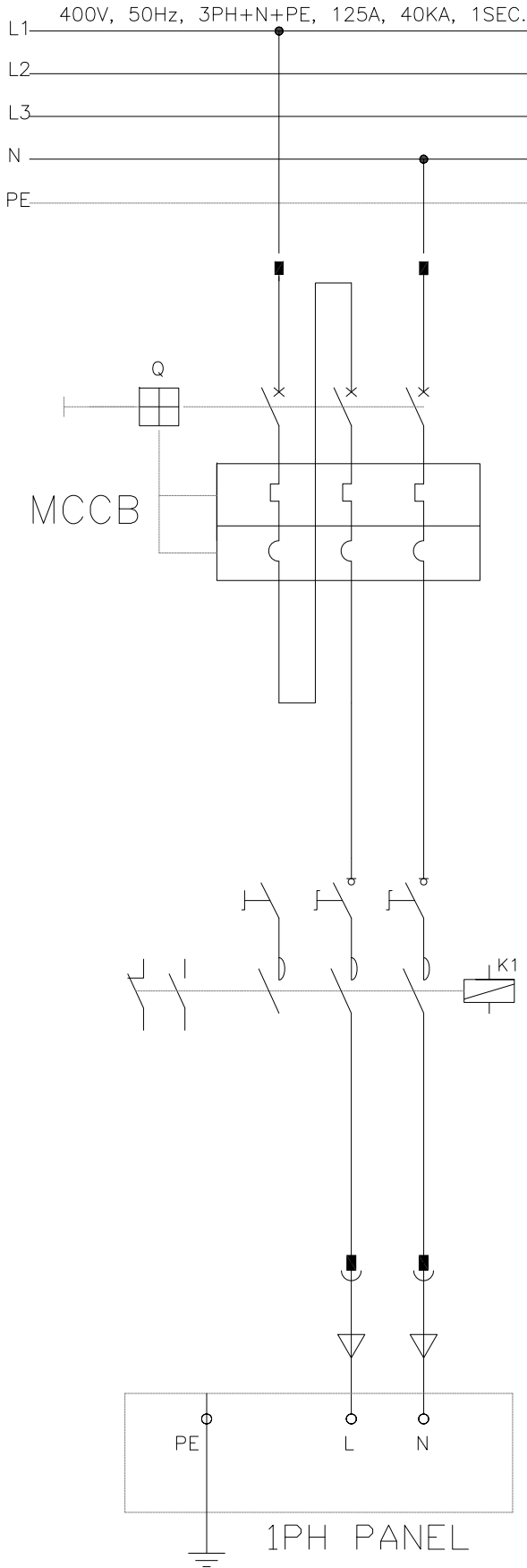
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HIRKAN ENERGY – DESIGN & INSPECTION COMPANIES		PEDCO	
DRAWING TITLE:			
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANEL			
SCALE	SIZE	DRAWING NO.	SHEET NO.
NTS	A3	BK-GCS-PEDCO-120-EL-DG-0002	14 OF 19



M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR $P \geq 30kW$
(SWITCH FUSE + CONTACTOR + OVERLOAD CT + R/L SIGNALING+ R/L AMMETER + Motor Protection Relay (MPR)
(49, 50G & PHASE CONTROL)



NOTES											



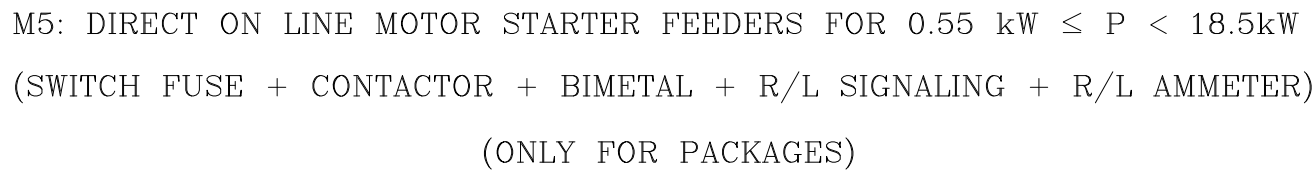
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D01	APR.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D00	DEC.2021	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
D08	SEP.2024	FI	H.SHAKIBA	M.PAKHARIAN	M.SADDEGHIAN	** **
D07	SEP.2023	FI	H.SHAKIBA	M.PAKHARIAN	S.FARAMARZPOUR	** **
D06	MAY.2023	FI	H.SHAKIBA	M.PAKHARIAN	A.M.MOHSSENI	** **
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D01	APR.2022	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **
D00	DEC.2021	IFI	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **

REV.	DATE	DESCRIPTION	CHECKED	REV.	APP.
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(VENDOR TITLE BLOCK)**