

Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

Page

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
N278	VD	6019	IN	DIA	0005	03	Page 1 of 16

**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box (K020)**

code-2
M. Vakili

- This document should be revised after the finalization PID and IO list document if needed.
- Please issue the next Rev. after the finalization PID and IO List document
- Lamp test Push button should be added, as per TCL, this comment should be implemented in PID document too.

03	21-12-2023	Issued for Approval	R.T.	S.K.	J.J.
02	07-12-2023	Issued for Approval	R.T.	S.K.	J.J.
01	03-11-2023	Issued for Approval	R.T.	S.K.	J.J.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

Wiring Diagram (including Terminal Diagram) for
LCP Panel and Junction Box

Document No. 17735-05

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
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Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05
1	X	X	X			26						51						76					
2	X	X	X			27						52						77					
3	X	X	X			28						53						78					
4	X	X	X			29						54						79					
5	X	X	X			30						55						80					
6	X	X	X			31						56						81					
7	X	X	X			32						57						82					
8	X	X	X			33						58						83					
9	X	X	X			34						59						84					
10	X	X	X			35						60						85					
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15	X	X	X			40						65						90					
16	X	X	X			41						66						91					
17	X	X				42						67						92					
18	X	X				43						68						ATTACHMENT					
19	X	X				44						69						1					
20	X	X				45						70						2					
21		X				46						71						3					
22						47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



Airpack B.V.

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The Netherlands

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FAX: (31) (0) 111 - 413338

E-MAIL : AIRPACK@AIRPACK.NL

WEBPAGE : WWW.AIRPACK.NL

Client	:	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)		
Equipment location	:	IRAN, ONSHORE		
Client reference	:	INTEGRATED METHANOL AND AMMONIA PLANT		
Client dwg. no.	:	N-278-VD-6019-IN-DIA-0005-01		
Airpack reference	:	17735-05 Wiring Diagram		
Airpack dwg. no.	:	17735-05		
Generation date	:	2023-11-02		
E & I manager	:	RBE	Revision no.	: 03
Last modifications	:	2023-12-21		
Last modifications by	:	RTR		



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Title page / cover sheet		CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	03	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	1	

COMMENTS ON ELECTRICAL DRAWINGS

LPS AND JB MOUNTED ON SKID
 MATERIAL: SHEET STEEL
 INGRESS. PROTECTION: IP-65
 AREA CLASSIFICATION: SAFE

GLANDS: SS316 GLANDS WITH SHROUDS, IP-66
 CABLE TRAYS: HOT-DIP GALVANIZED

AMBIENT TEMPERATURE: 0 / 49 °C

ALL "IE" CONNECTIONS WILL BE CONNECTED ON A "IE"-BAR

REFERENCE DOCUMENTS:


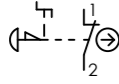






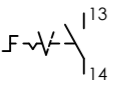
- 17735-03 - N-278-VD-6019-PR-PID-0002-01 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006-01 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007-01 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022-01 - Control Philosophy

SIGNAL PAIRS	
CURRENT LOOPS	POSITIVE: RED NEGATIVE: BLACK
VOLT [FREE] CONTACTS	POSITIVE: BLACK NEGATIVE: WHITE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	=
EQUIPMENT NO.	320-K-020	Project description		CHECKED BY	RBE	+
EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	03	
		AIRPACK REF.	17735-05 Wiring Diagram	TOTAL PAGE AMOUNT	2	

SYMBOL LEGEND


SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CABLE SHIELD		
	EMERGENCY STOP		
	INDICATION LAMP		
	INSTRUMENT EARTH CONNECTION POINT		
	N/C PUSHBUTTON		
	N/O PUSHBUTTON		
	TERMINAL CONNECTION POINT		
	TRANSMITTER CONNECTION POINT		
	TWO-POSITION SELECTOR SWITCH		

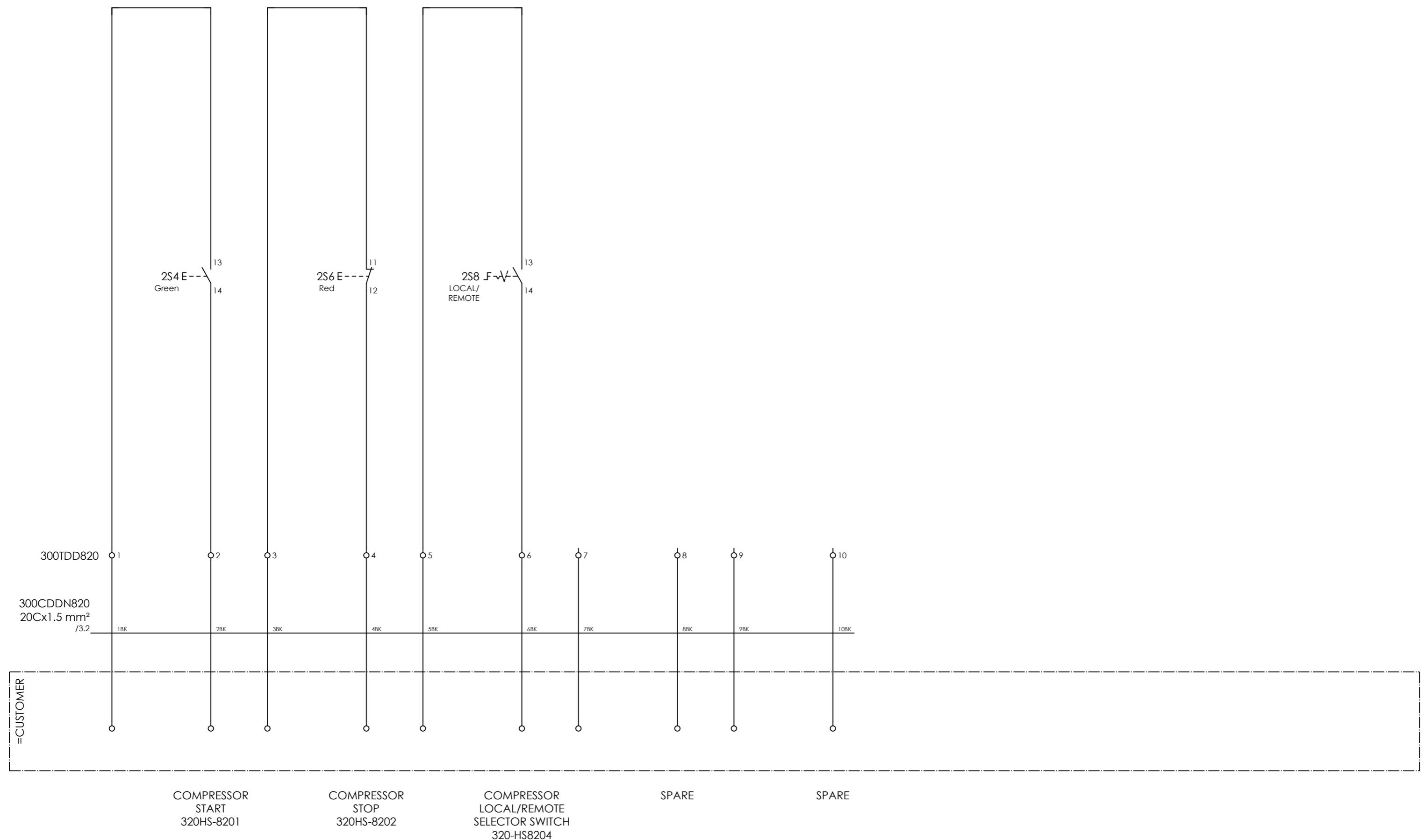
300LP-820 LOCAL PUSHBUTTON STATION

TERMINAL STRIP DEFINITION

300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300LP-820
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	04	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	03	
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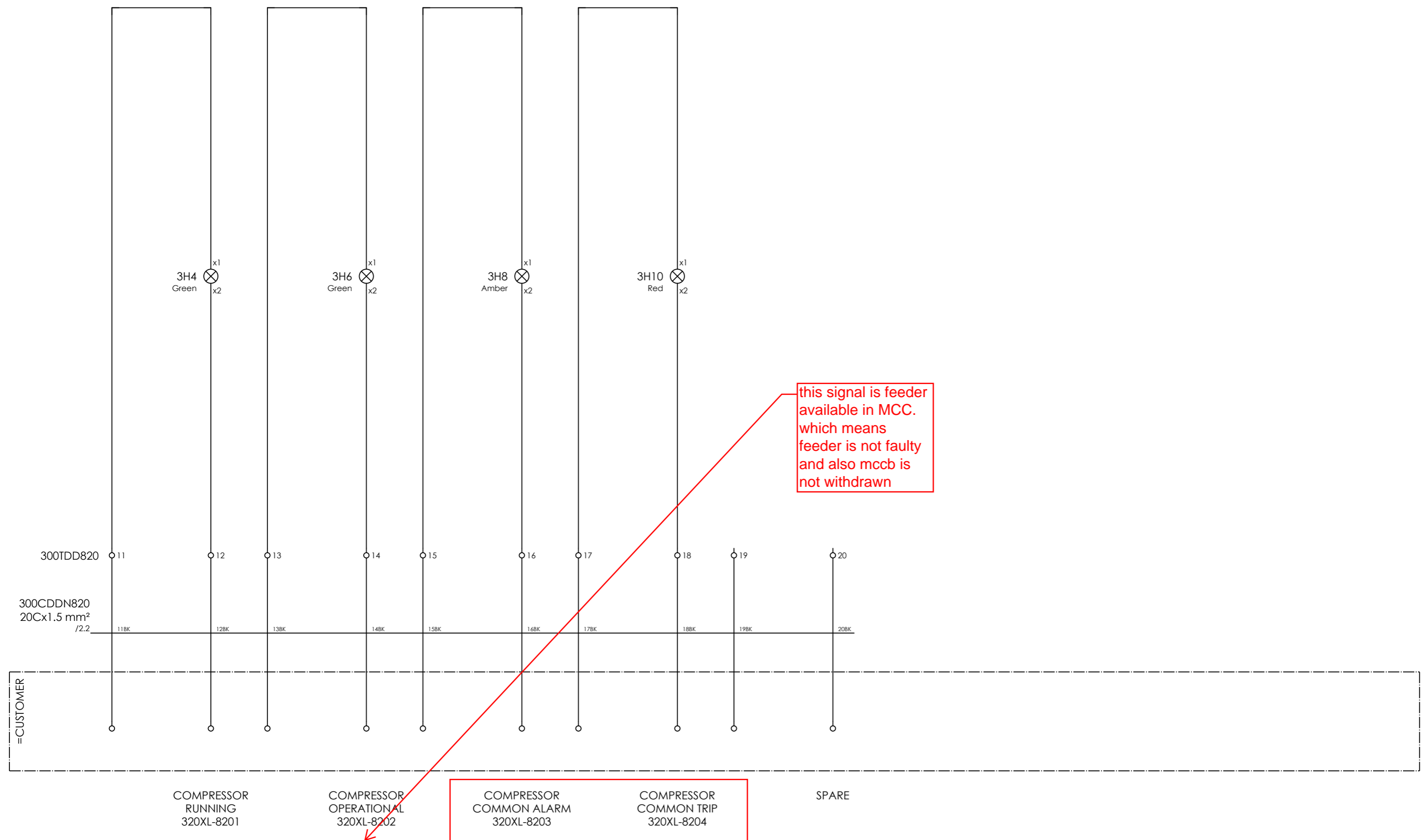


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT PUSHBUTTONS	
ADAPTED TO P&ID REVISION	04
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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CHECKED BY	RBE
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REVISION	03
TOTAL PAGE AMOUNT	6

= 320-K-020
+ 300LP-820
CURRENT PAGE



this signal is feeder available in MCC. which means feeder is not faulty and also mccb is not withdrawn

COMPRESSOR COMMON ALARM 320XL-8203
 COMPRESSOR COMMON TRIP 320XL-8204

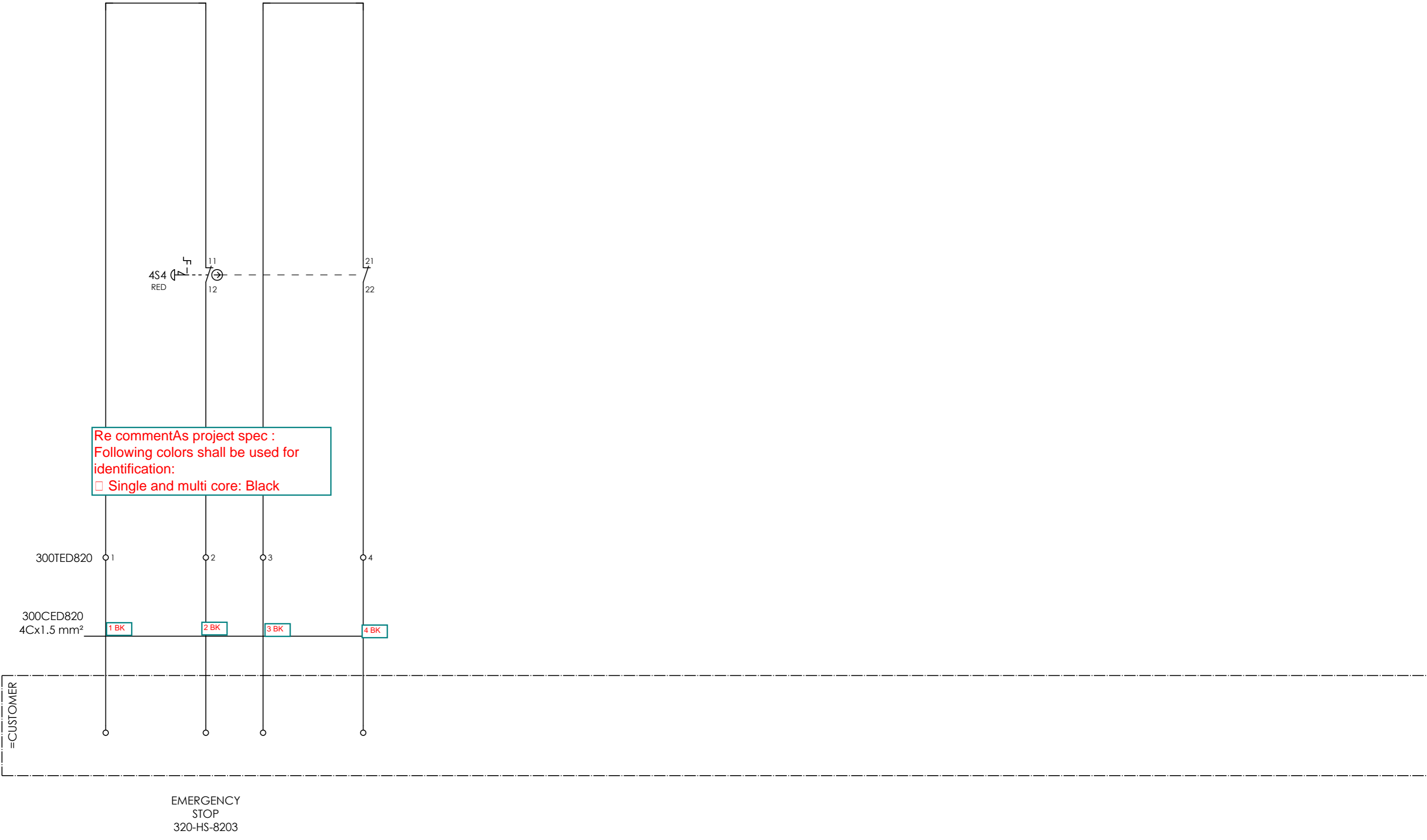
there is just one fault signal from MCC to package



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SUBJECT LAMPS	
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	03	
TOTAL PAGE AMOUNT	7	



Re commentAs project spec :
 Following colors shall be used for
 identification:
 Single and multi core: Black

=CUSTOMER

EMERGENCY
 STOP
 320-HS-8203



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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SUBJECT ESD PUSHBUTTON	
ADAPTED TO P&ID REVISION	04
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

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AIRPACK DWG NO.	17735-05	
REVISION	03	
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300JDAN-820 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

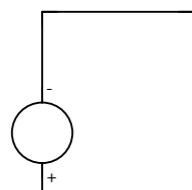
300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
 300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT

	CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT		DRAWN BY	RTR	= 320-K-020
	EQUIPMENT NO.	320-K-020	TERMINAL STRIP DEFINITION		CHECKED BY	RBE	+ 300JDAN-820
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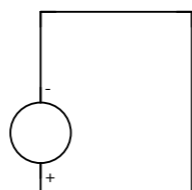
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=CUSTOMER

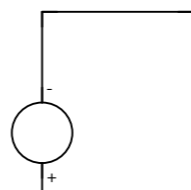
320PT-8201



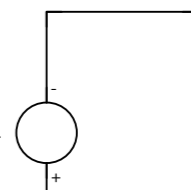
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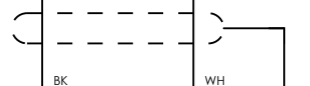
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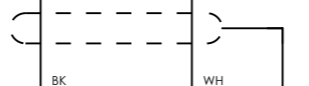
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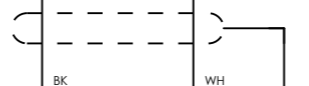
320PT-8201
1Px1.5 mm²



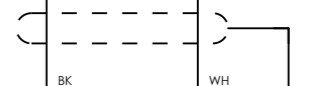
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1Px1.5 mm²



320PT-8203
1Px1.5 mm²



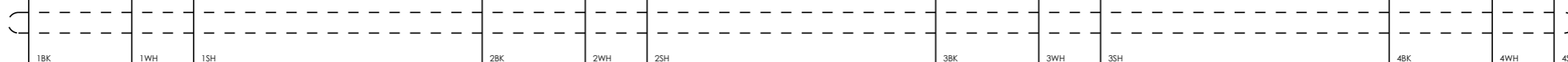
320PT-8204
1Px1.5 mm²



300TDA820



300CDAN820
19x2x0.75 mm²
/3.3
/4.3
/5.3
/6.4



PRESSURE
TRANSMITTER
320PT-8201

PRESSURE
TRANSMITTER
320PT-8202

PRESSURE
TRANSMITTER
320PT-8203

PRESSURE
TRANSMITTER
320PT-8204

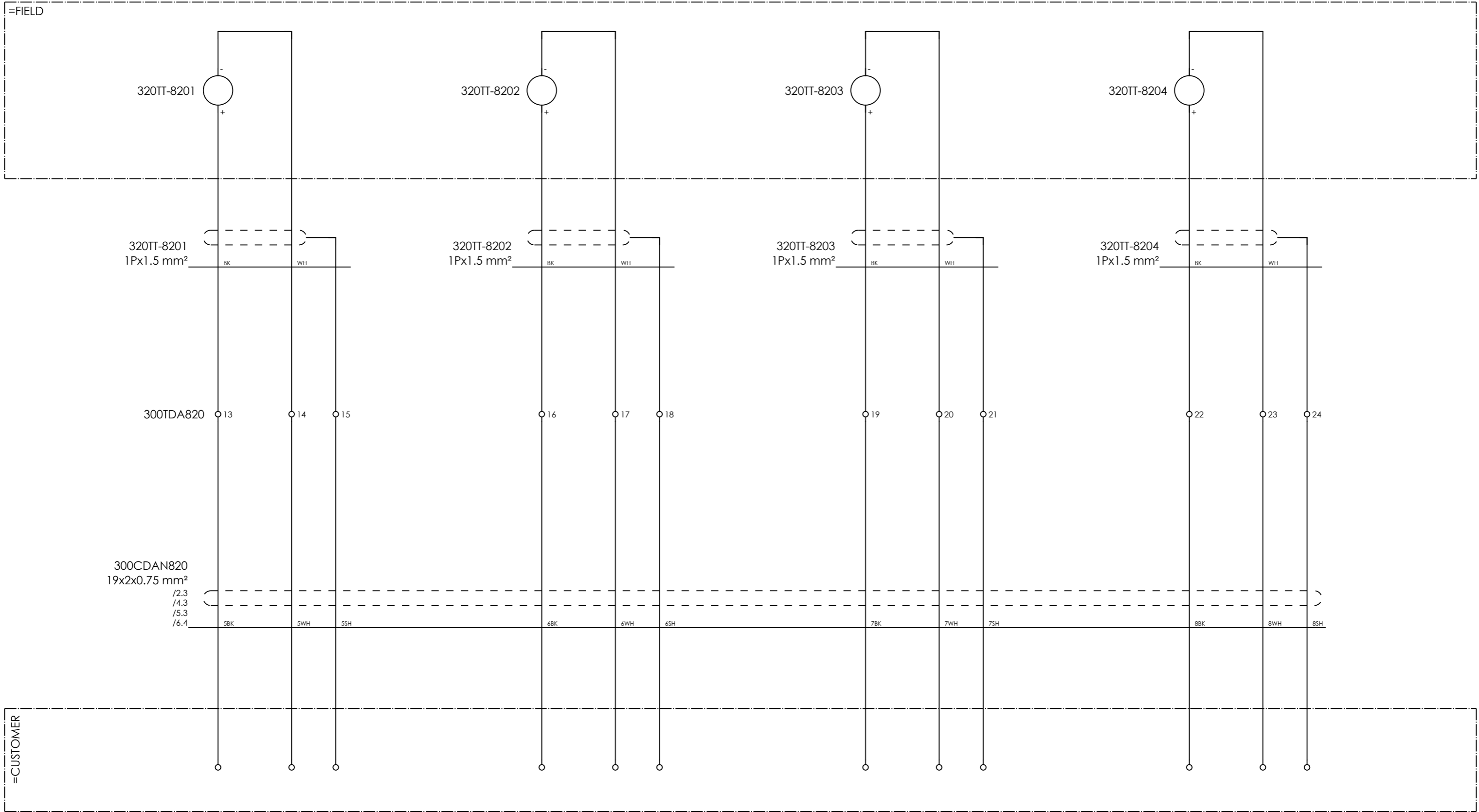


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EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

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SUBJECT ANALOG TRANSMITTERS	
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CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	= 320-K-020
CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	03	
TOTAL PAGE AMOUNT	10	



TEMPERATURE TRANSMITTER 320TT-8201

TEMPERATURE TRANSMITTER 320TT-8202

TEMPERATURE TRANSMITTER 320TT-8203

TEMPERATURE TRANSMITTER 320TT-8204



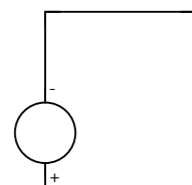
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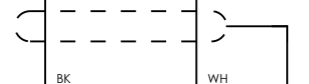
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CHECKED BY	RBE	+ 300JDAN-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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=FIELD

320TT-8205



320TT-8205
1Px1.5 mm²



300TDA820

○ 25 ○ 26 ○ 27

○ 28

○ 29

○ 30

○ 31

○ 32

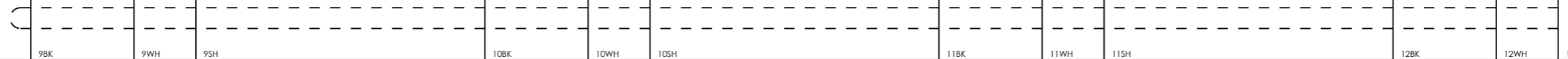
○ 33

○ 34

○ 35

○ 36

300CDAN820
19x2x0.75 mm²
/2.3
/3.3
/5.3
/6.4



=CUSTOMER

TEMPERATURE
TRANSMITTER
320TT-8205

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

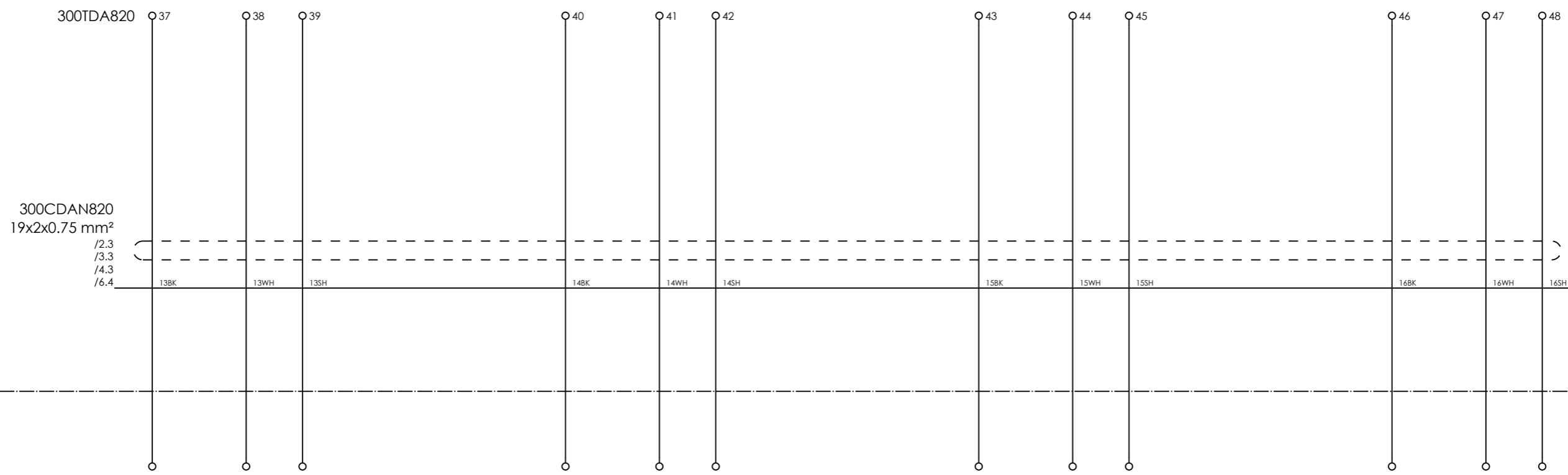
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SUBJECT ANALOG TRANSMITTERS	
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=FIELD



=CUSTOMER

SPARE

SPARE

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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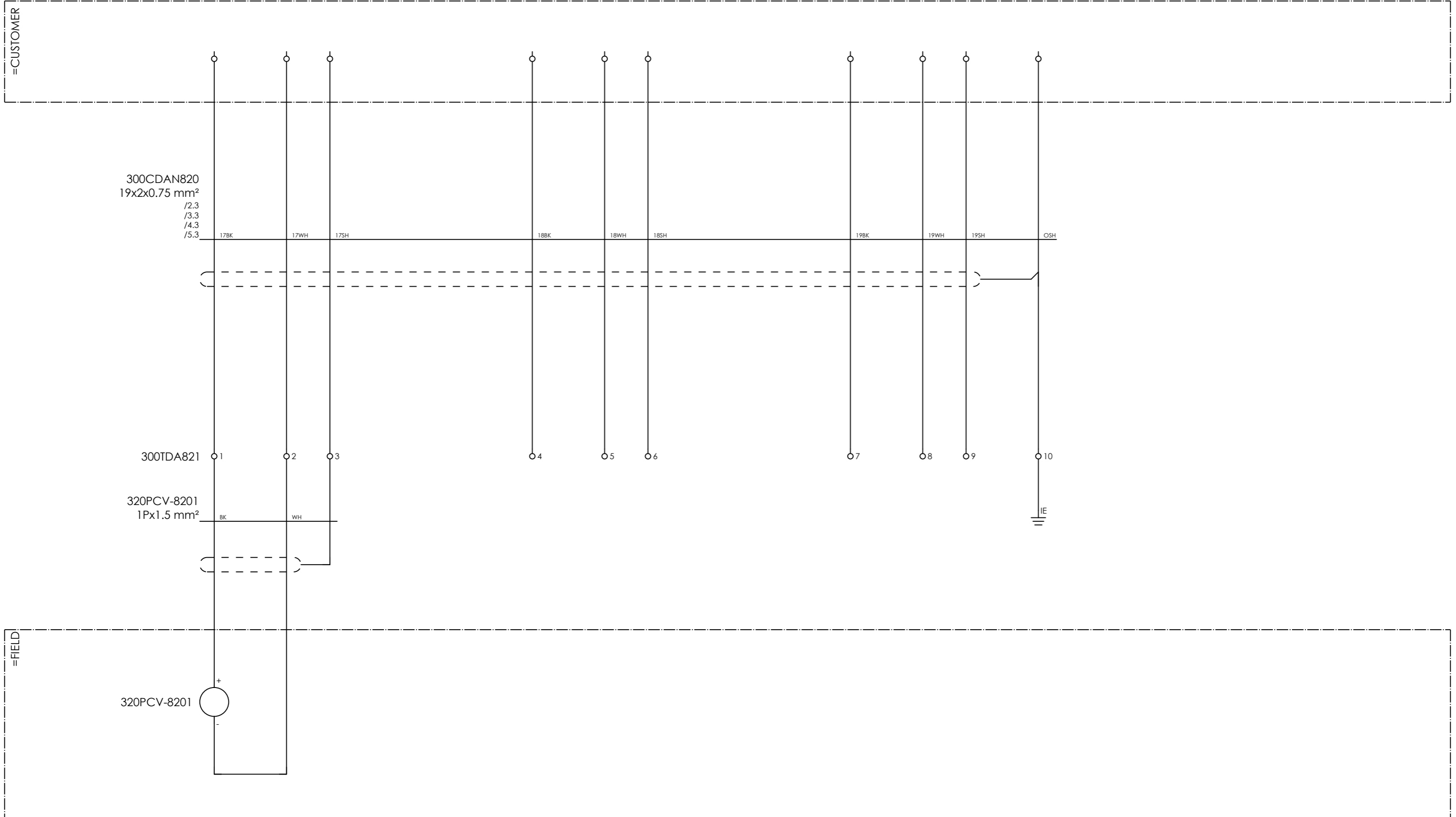
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PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
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