



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



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

04	14-02-2024	Issued for Approval	R.T.	S.K.	J.J.
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

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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
N278	VD	6019	IN	DIA	0005	04	Page 2 of 21

LIST OF REVISED PAGES

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	X		26						51						76					
2	X	X	X	X		27						52						77					
3	X	X	X	X		28						53						78					
4	X	X	X	X		29						54						79					
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6	X	X	X	X		31						56						81					
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16	X	X	X	X		41						66						91					
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18	X	X		X		43						68						ATTACHMENT					
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22						47						72						4					
23						48						73						5					
24						49						74						6					
25						50						75						7					



Airpack B.V.

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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. : 04
Last modifications	:	2024-02-13	
Last modifications by	:	RTR	



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	
Title page / cover sheet	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR	=
CHECKED BY	RBE	+
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	04	
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:


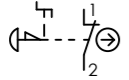


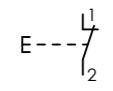
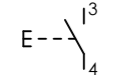


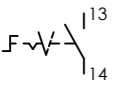
- 17735-03 - N-278-VD-6019-PR-PID-0002-01 - P&ID
- 17735-06 - N-278-VD-6019-IN-LIS-0006-01 - I/O List
- 17735-07 - N-278-VD-6019-IN-DWG-0007-01 - Outline Dimensional Drawings for LCP Panel and Junction Box
- 17735-21 - N-278-VD-6019-GN-PRO-0022-01 - Control Philosophy

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	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
THIS DRAWING IS OWNED BY AIRPACK, AND SHALL NOT BE PRINTED OR COPIED IN ANY OTHER WAY THAN WITH AIRPACKS PERMISSION!		CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	AIRPACK DWG NO.	17735-05	
		CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT	REVISION	04	
		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

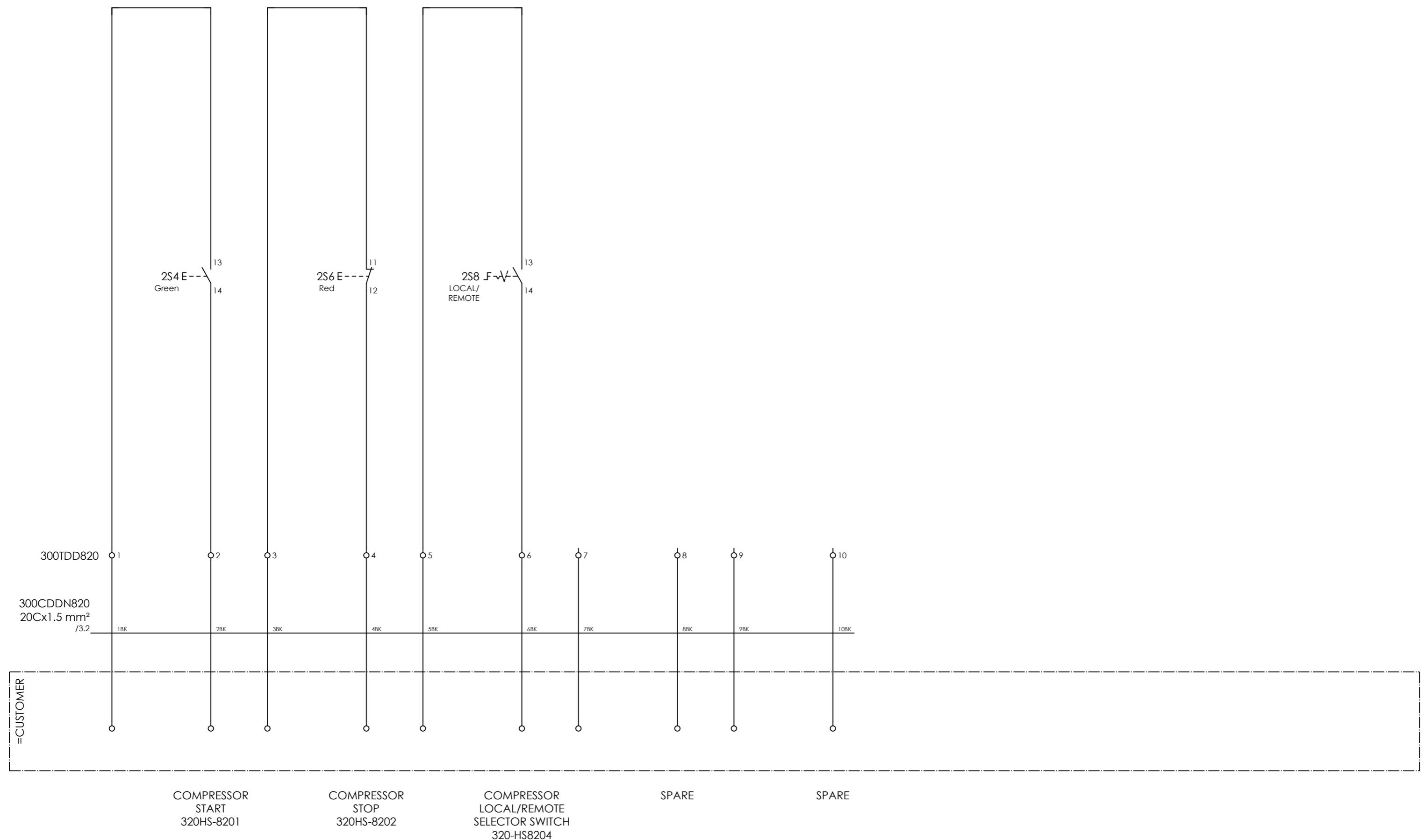
TERMINAL STRIP DEFINITION

300TDD820 = CONNECTION PUSHBUTTONS AND LAMPS

300TED820 = CONNECTION ESD PUSHBUTTON



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01	SUBJECT	TERMINAL STRIP DEFINITION	DRAWN BY	RTR	= 320-K-020
EQUIPMENT NO.	320-K-020	ADAPTED TO P&ID REVISION	07	CHECKED BY	RBE	+ 300LP-820
EQUIPMENT LOCATION	IRAN, ONSHORE	CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
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		AIRPACK REF.	17735-05 Wiring Diagram	REVISION	04	
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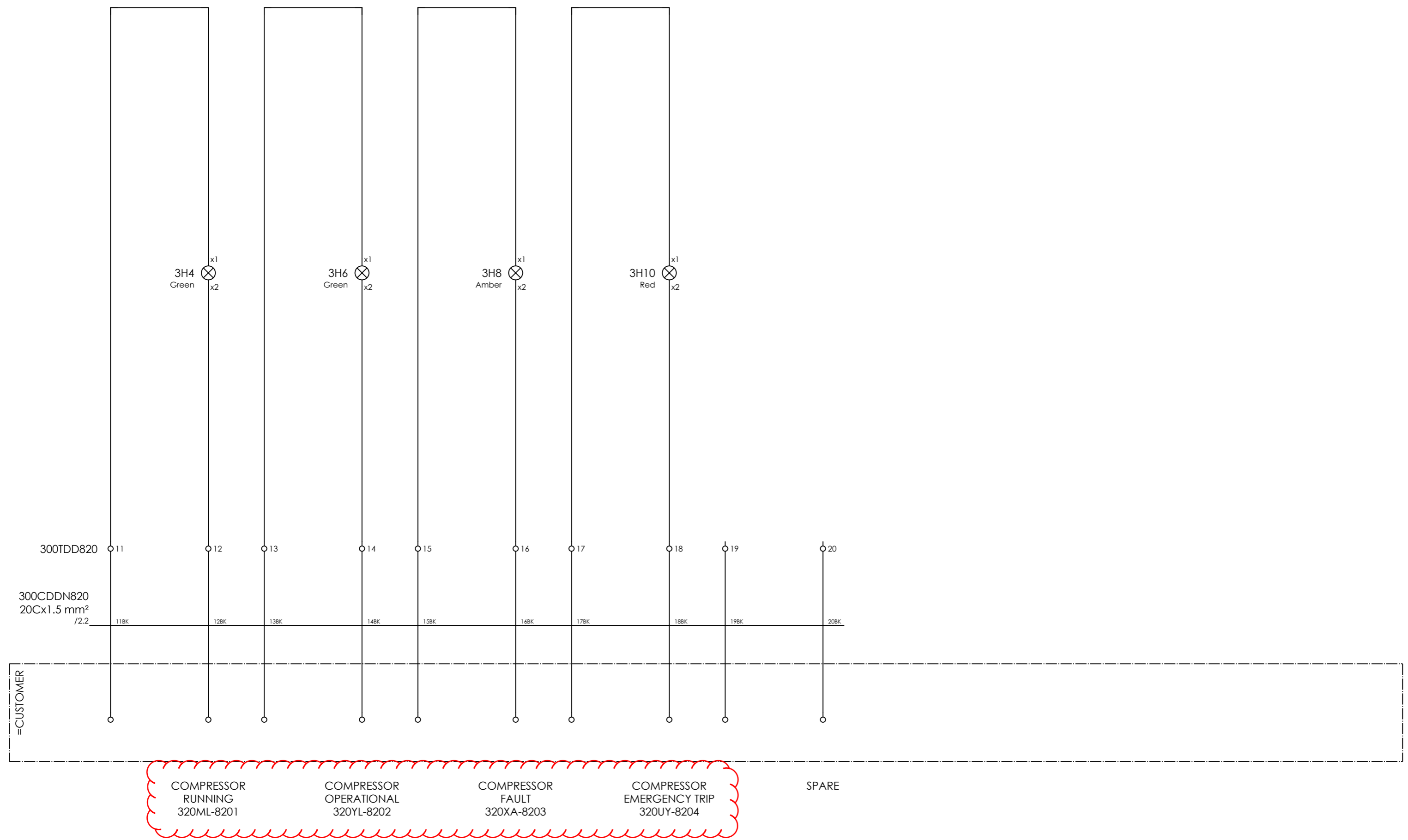


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT PUSHBUTTONS	
ADAPTED TO P&ID REVISION	07
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
LAST MODIFICATION DATE	2023-12-18
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REVISION	04
TOTAL PAGE AMOUNT	6

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+ 300LP-820
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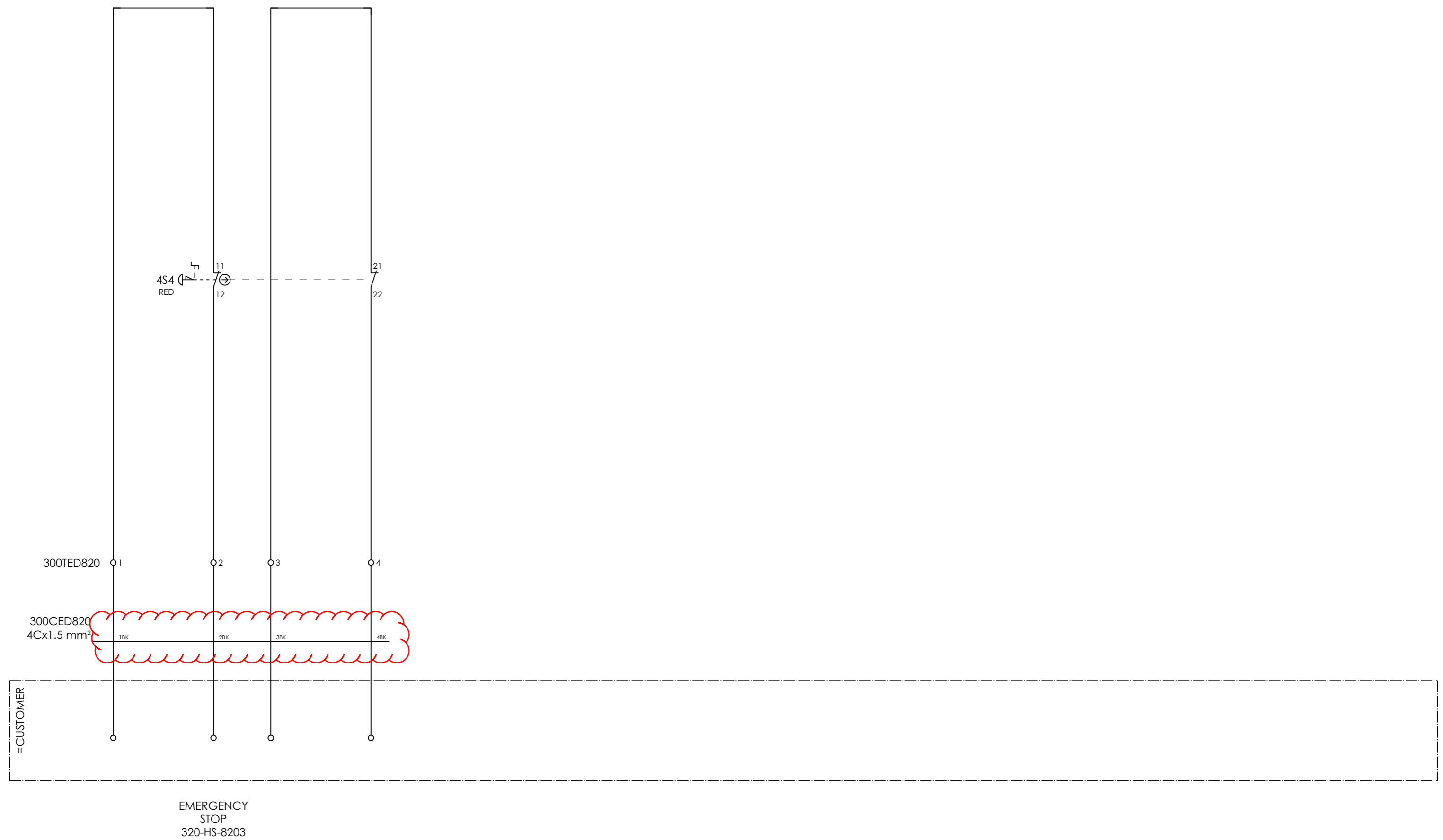


CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
EQUIPMENT NO.	320-K-020
EQUIPMENT LOCATION	IRAN, ONSHORE

SUBJECT LAMPS	
ADAPTED TO P&ID REVISION	07
CLIENT	LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
AIRPACK REF.	17735-05 Wiring Diagram

DRAWN BY	RTR
CHECKED BY	RBE
LAST MODIFICATION DATE	2023-12-18
AIRPACK DWG NO.	17735-05
REVISION	04
TOTAL PAGE AMOUNT	7

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



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT ESD PUSHBUTTON	
ADAPTED TO P&ID REVISION	07
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	+ 300LP-820
LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
REVISION	04	
TOTAL PAGE AMOUNT	8	

Terminal diagram

Cable name		Strip =320-K-020+300LP-820-300TDD820 CONNECTION PUSHBUTTONS AND LAMPS										Cable name																																																																																																											
Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point	Terminal	Connection point																																																																																																										
1	-2S4	1	13	11BK		2	-2S4	2	14	12BK		3	-2S6	3	11	13BK		4	-2S6	4	12	14BK		5	-2S8	5	13	15BK		6	-2S8	6	14	16BK		7		7		17BK		8		8		18BK		9		9		19BK		10		10		20BK		11	-3H4	11	x1	11BK		12	-3H4	12	x2	12BK		13	-3H6	13	x1	13BK		14	-3H6	14	x2	14BK		15	-3H8	15	x1	15BK		16	-3H8	16	x2	16BK		17	-3H10	17	x1	17BK		18	-3H10	18	x2	18BK		19		19		19BK		20		20		20BK	



CLIENT DWG NO. N-278-VD-6019-IN-DIA-0005-01
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 EQUIPMENT LOCATION IRAN, ONSHORE
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SUBJECT Terminal diagram =320-K-020+300LP-820-300TDD820
 ADAPTED TO P&ID REVISION 07
 CLIENT LAVAN INDUSTRY DEVELOPMENT COMPANY (LIDCO)
 CLIENT REF. INTEGRATED METHANOL AND AMMONIA PLANT
 AIRPACK REF. 17735-05 Wiring Diagram


DRAWN BY RTR
 CHECKED BY RBE
 LAST MODIFICATION DATE 2023-12-18
 AIRPACK DWG NO. 17735-05
 REVISION 04
 TOTAL PAGE AMOUNT 9

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

300JDAN-820 ANALOG JUNCTION BOX

TERMINAL STRIP DEFINITION

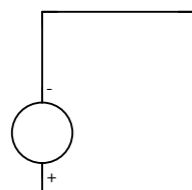
300TDA820 = CONNECTION ANALOG TRANSMITTERS TO CLIENT
 300TDA821 = CONNECTION PRESSURE CONTROL VALVE TO CLIENT

	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	
	EQUIPMENT LOCATION	IRAN, ONSHORE	ADAPTED TO P&ID REVISION	07	LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE	
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			CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT		REVISION	04	
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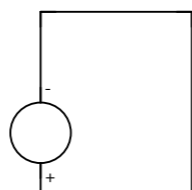
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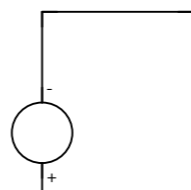
320PT-8201



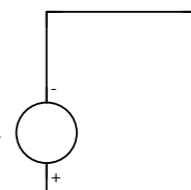
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320PT-8203



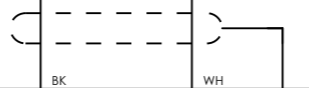
320PT-8204



320PT-8201
1Px1.5 mm²



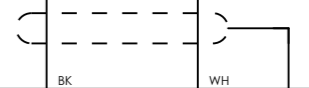
320PT-8202
1Px1.5 mm²



320PT-8203
1Px1.5 mm²



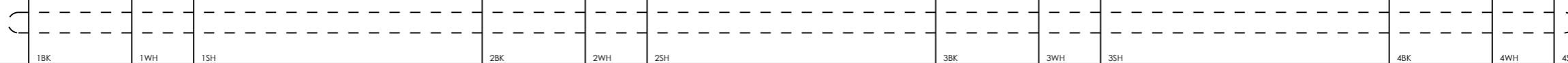
320PT-8204
1Px1.5 mm²



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

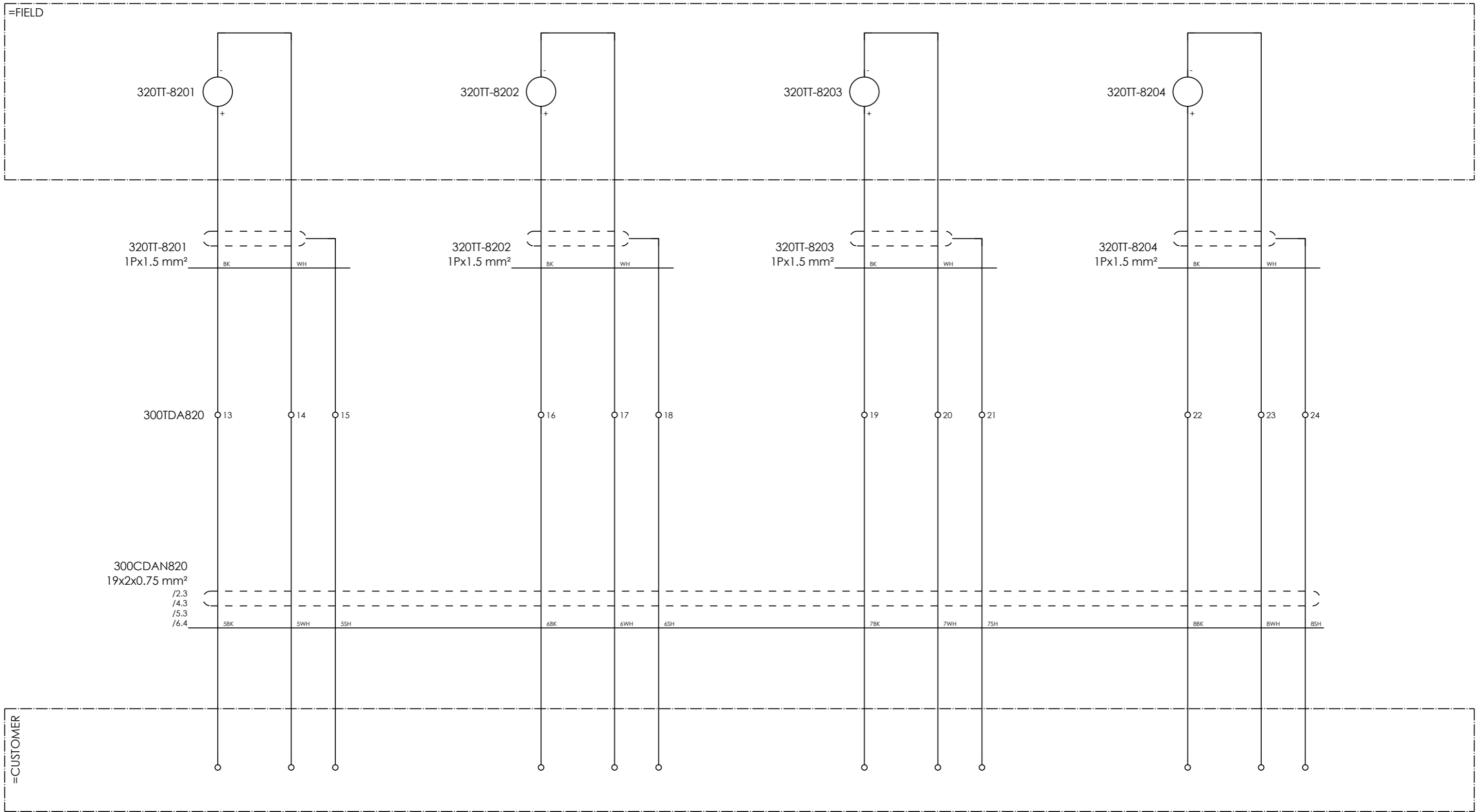
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ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	07

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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE

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

AIRPACK DWG NO.	17735-05
REVISION	04
TOTAL PAGE AMOUNT	12



TEMPERATURE TRANSMITTER
320TT-8201

TEMPERATURE TRANSMITTER
320TT-8202

TEMPERATURE TRANSMITTER
320TT-8203

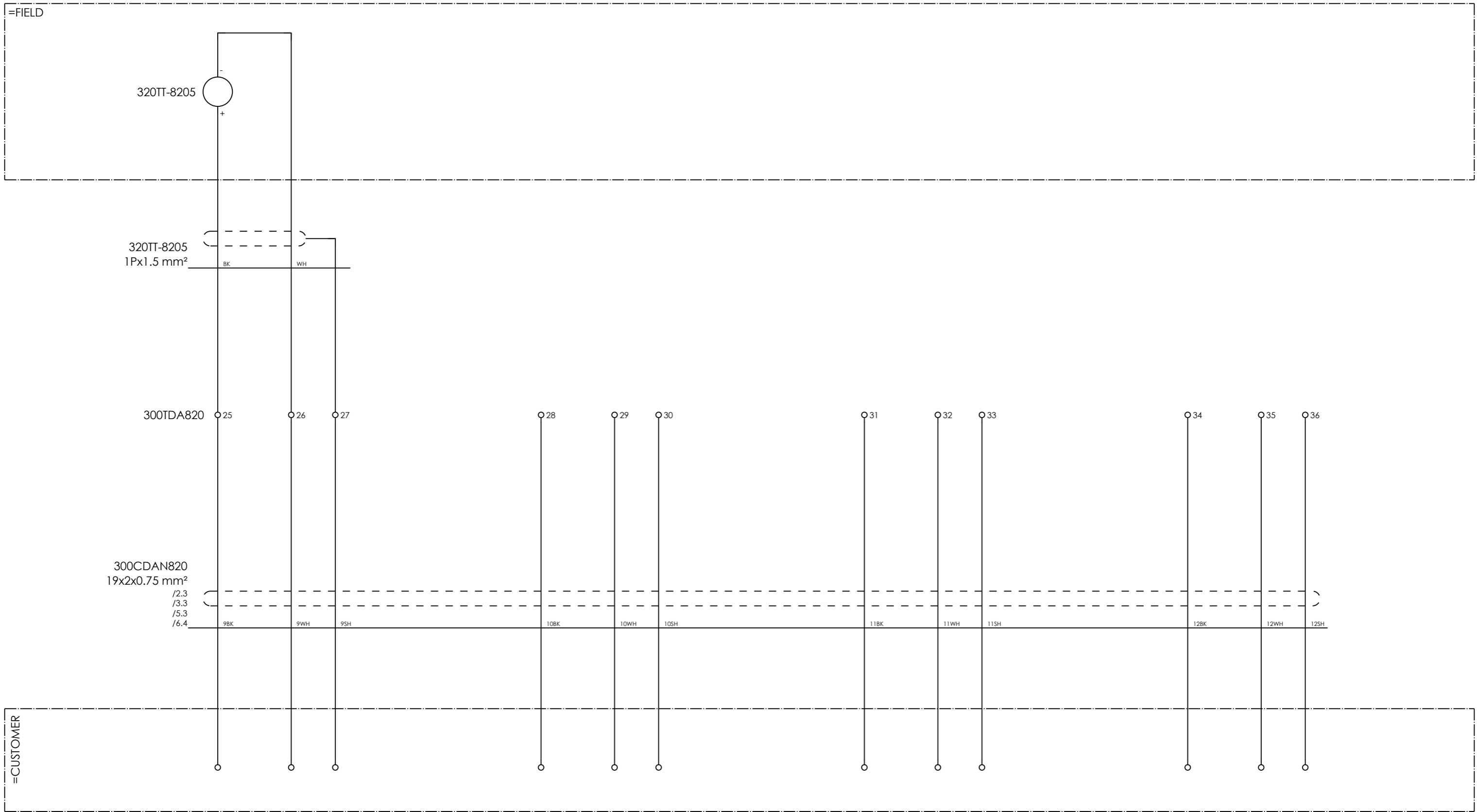
TEMPERATURE TRANSMITTER
320TT-8204



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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 REF.	INTEGRATED METHANOL AND AMMONIA PLANT
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DRAWN BY	RTR	= 320-K-020
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AIRPACK DWG NO.	17735-05	
REVISION	04	
TOTAL PAGE AMOUNT	13	



TEMPERATURE
TRANSMITTER
320TT-8205

SPARE

SPARE

SPARE

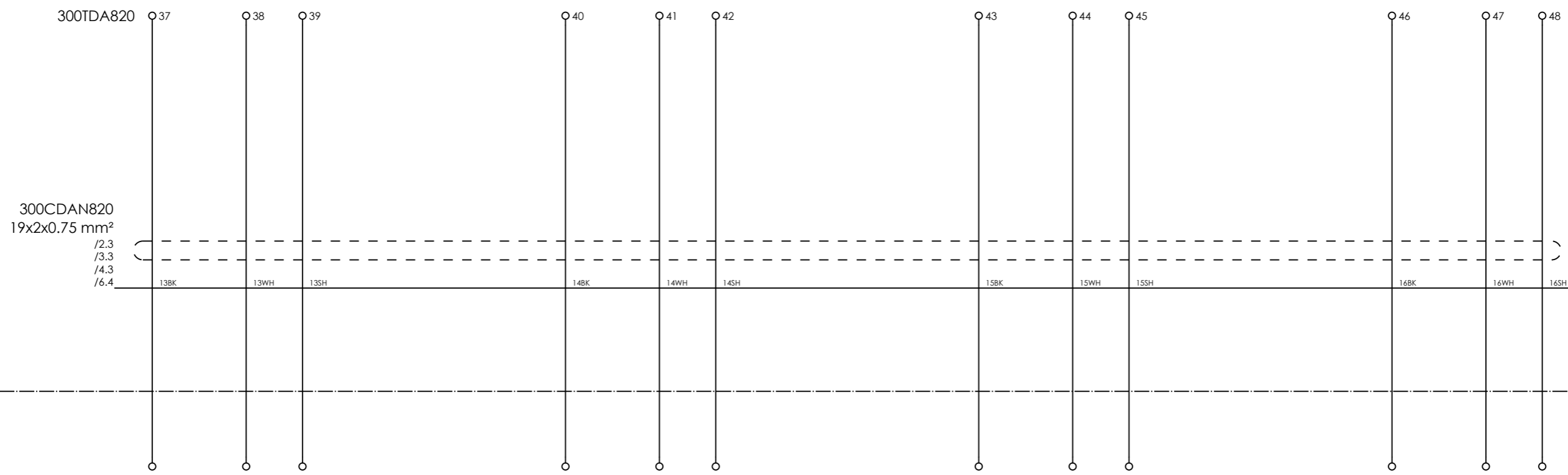


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SUBJECT ANALOG TRANSMITTERS	
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LAST MODIFICATION DATE	2023-12-18	CURRENT PAGE
AIRPACK DWG NO.	17735-05	
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TOTAL PAGE AMOUNT	14	

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=CUSTOMER

SPARE

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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ANALOG TRANSMITTERS	
ADAPTED TO P&ID REVISION	07

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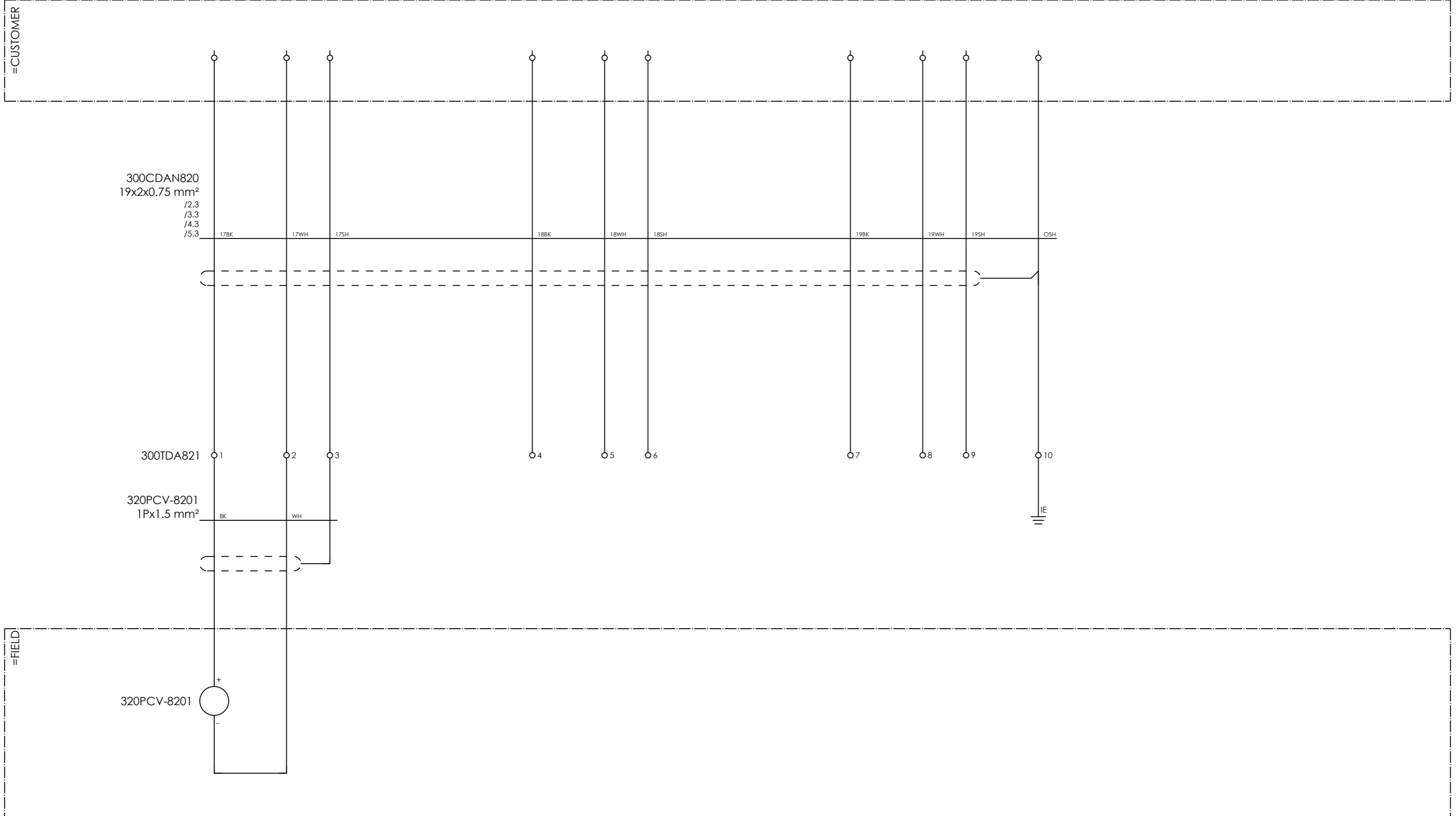
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REVISION	04
TOTAL PAGE AMOUNT	15

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

PRESSURE CONTROL VALVE
320PCV-8201

SPARE

SPARE



CLIENT DWG NO.	N-278-VD-6019-IN-DIA-0005-01
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EQUIPMENT LOCATION	IRAN, ONSHORE
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SUBJECT PRESSURE CONTROL VALVE	
ADAPTED TO P&ID REVISION	07
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CLIENT REF.	INTEGRATED METHANOL AND AMMONIA PLANT
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AIRPACK DWG NO.	17735-05
REVISION	04
TOTAL PAGE AMOUNT	16

= 320-K-020
+ 300JDAN-820
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Terminal diagram

Cable name		Strip =320-K-020+300JDAN-820-300TDA820 CONNECTION ANALOG TRANSMITTERS TO CLIENT																					
Cable name		Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable name															
-300CDAN820	19x2x0.75 mm ²							1BK	1WH	1SH	2BK	2WH	2SH	3BK	3WH	3SH	4BK	4WH	4SH	5BK	5WH	5SH	
-320TT-8201	1Px1.5 mm ²																						
-320PT-8204	1Px1.5 mm ²																						
-320PT-8203	1Px1.5 mm ²																						
-320PT-8202	1Px1.5 mm ²																						
-320PT-8201	1Px1.5 mm ²																						

