



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



Cause & Effect Chart

Document No. 17735-27

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**Airpack B.V. - Air Compressor –  
Integrated Methanol and Ammonia Plant  
17735-COM Cause & Effect Chart (K020)**

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	12-12-2023	Issued for Approval	S.K.	J.J.	S.K.

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**DOCUMENT TITLE: 17735-27**  
**Cause & Effect chart Compressor**

CAUSE SIGNALS ARE INCLUDED IN P&ID DOCUMENT					EFFECT	Tag Number	320-MBS-8201	320-MBW-8202	320-PCV-8201	320-XL-8204	320-MBG-8201
Instrument Tag	Signal	Type	Description	Interlock		Component	MOTOR START	MOTOR STOP	LOAD / UNLOAD VALVE	COMMON TRIP LAMP LCP	AVAILABLE / FAILURE STATUS SIGNAL
320-HS-8203	EMERGENCY STOP	BUTTON	EMERGENCY SHUT DOWN LPS	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-HS-8201	START	BUTTON	START COMPRESSOR LPS	IP-922		<b>ST</b>		<b>E</b>			
320-HS-8202	STOP	BUTTON	STOP COMPRESSOR LPS	IP-921			<b>SP</b>	<b>DE</b>			
320-PT-8201	TRANSMITTER	LL	COMPRESSOR INLET PRESSURE LOW LOW	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-PT-8202	TRANSMITTER	LL	2ND STAGE SUCTION PRESSURE LOW LOW	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-TT-8203	TRANSMITTER	HH	2ND STAGE SUCTION TEMPERATURE HIGH HIGH	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-TT-8205	TRANSMITTER	HH	COMPRESSOR OULTET TEMPERATURE HIGH HIGH	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-PT-8203	TRANSMITTER	HH	COMPRESSOR OULTET PRESSURE HIGH HIGH	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
320-PT-8204	TRANSMITTER	LL	OIL PRESSURE LOW LOW	IP-920			<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	
101-MBP-001	MOTOR	CONTROL	MOTOR RUNNING FEEDBACK TRIP		Note 1		<b>SP</b>	<b>DE</b>	<b>x</b>	<b>x</b>	

**Legend:**

ST = Start  
 SP = Stop  
 X = Action  
 E = Energize  
 DE = De-energize

**NOTES:**

1. MOTOR FEEDBACK TRIP, 2 SECOND AFTER START SINGAL IS SEND AND MOTOR IS NOT SENDING FEEDBACK, THE PACKAGE IS TRIPPED