



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



Main Motor Data Sheets

Document No. 17735-10

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**Airpack B.V. - Air Compressor –  
Integrated Methanol and Ammonia Plant  
17735-COM Main Motor Data Sheets (K020)**

code-2  
M. Vakili

**PROJECT TEMPLATE DATA  
SHEET TO BE FILED AND  
SENT**

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	08-04-2024	Issued for Approval	S.K.	S.K.	J.J.

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MAIN MOTOR DATA SHEET

PROJECT :	Integrated Methanol and Ammonia Plant	PROJECT N°:	UNIT	DOCUMENT N°	SHEET	REV
CLIENT:	LIDCO	17735	KM-020	N-278-VD-6019-PM-DS-0010	3 of 4	01

1	Item:	Main motor	Quantity:	1
2	General specificatio	N278-000-EL-JSS-1691-001	Standards, codes:	(IEC60034) IEC 60034-8
3	Supplier:	Airpack	Manufacturer:	Siemens
4			Unit	
5	<b>ENVIRONMENTAL CONDITIONS</b>			
6	Installation (indoor/outdoor) / Ambient Type		Indoor	0-49 DEG
7	Ambient Design Temperature (Min./Max.)	°C	-20 / 50	
8	Altitude (if > 1000m)	m	<1000 m.a.s.l.	
9	Relative Humidity	%	65 / 100	85%
10	Area Classification		Safe area	
11	Other conditions		Onshore	
12				
13	<b>DRIVEN MACHINE DATA</b>			
14	Machine Type		Air booster compressor	
15	Max absorbed power	kW	Approx. 5	
16	Motor rated power	kW	11	
17	Coupling type		V-belt	
18	Starting current		7.4 xln	
19				
20	<b>GENERAL MOTOR CHARACTERISTICS</b>			
21	Rated power	kW	15	40+/-5%
22	Poles	N°	4	
23	Voltage	V	400	50+/- 2%
24	Frequency	Hz	50	
25	phase	ph	3	
26	Motor type		Squirrel cage induction motor	
27	Fan execution		Standard	
28	Motor material		Cast Iron	
29	special execution		-	
30	Direction of Rotation (looking at motor coupling)		Clockwise	
31	Mounting		IM B35	
32	Protection degree enclosure	IP	55	
33	Protection degree terminal box	IP	55	
34	Atex protection Motor		-	
35	Atex protection terminal box		-	
36	Area Classification according ATEX		Safe area	
37	Axial Bearing Type (NDE)		Roller	
38	Bearing Code (NDE)		6309-C3	
39	Axial Bearing Type (DE)		Roller	
40	Bearing code (DE)		6309-C3	
41	Lubrication type		Mobil Grease XHP 221	
42	Lubrication interval	hr	4000	
43	Cooling method		TEFC	
44	Winding material		Copper	
45	Starting method		DOL	
46	Winding Connection		STAR	
47	Number of terminals brought out	N°	2	?, THE MOTOR IS 3 PHASE
48	Min. Insulation Class		F	
49	Max Temperature Rise		B	
50	Painting standard		C5M	
51	Painting Colour		RAL-7030	
52	Motor Nett Weight	Kg	217	
53	Dimension (L x W x H)	mm	725,5x350x545	
54	Frame Size	L	160	
55	Noise Level at 1 m (at full load)	dB(A)	69	
56	Full Load Speed	rpm	1467	
57	Power factor	%	83	
58	Max. voltage drop at starting	%	20	
59	Rated current	A	28	
60	Full load Torque	Nm	3,4	
61	Efficiency		92,1	
62	Power Factor 2/4		0,85	POWER FACTOR AND EFF. SHALL BE MENTIONED FOR FULL LOAD ,3/4 LOAD , 1/2 LOAD , 1/4 LOAD
63	Total no. of start per hour : hot		2	
64	Total no. of start per hour : Cold		3	
65	Duty type		S1	
66	Service Factor		1.0	

TO BE COMPLETED BY PURCHASER & BY DRIVEN MACHINE SUPPLIER

