



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.Dalakeh

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	03-06-2024	Issued for Approval	S.K.	S.K.	J.J.
01	08-04-2024	Issued for Approval	S.K.	S.K.	J.J.

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PROJECT  
TEMPLATE  
DAS TO BE  
FILLED



MAIN MOTOR DATA SHEET

PROJECT : <b>Integrated Methanol and Ammonia Plant</b>	PROJECT N°:	UNIT	DOCUMENT N°	SHEET	REV
CLIENT: <b>LIDCO</b>	<b>17735</b>	<b>KM-020</b>	<b>N-278-VD-6019-PM-DS-0010</b>	<b>3 of 4</b>	<b>02</b>

	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	
	<b>ENVIRONMENTAL CONDITIONS</b>		
	6 Installation (indoor/outdoor) / Ambient Type		Indoor
	7 Ambient Design Temperature (Min./Max.)	°C	0-49
	8 Altitude (if > 1000m)	m	<1000 m.a.s.l.
	9 Relative Humidity	%	65 / 100
	10 Area Classification		Safe area
	11 Other conditions		Onshore
	12		
	<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		
	<b>GENERAL MOTOR CHARACTERISTICS</b>		
	21 Rated power	kW	15
	22 Poles	N°	4
	23 Voltage	V	400+/-5%
	24 Frequency	Hz	50+/-2%
	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		Esso unirex N3
	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°	3
	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  100/75/50% load		0.82/0.82/0.72
	58 Max. voltage drop at starting	%	20
	59 Rated current	A	28
	60 Full load Torque	Nm	3.4
	61 Efficiency  100/75/50% load	%	92.1/92.3/91.5
	62 Power Factor 2/4		0.85
	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

85%

