Airpack B.V. - Air Compressor –

Integrated Methanol and Ammonia Plant

17735-COM Main Motor Data Sheets (K020)

Code 1
M.Dalakeh

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
06	03-07-2024	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	06

TO BE COMPLETED BY PURCHASER & BY DRIVEN MACHINE SUPPLIER

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	**ENVIRONMENTAL CONDITIONS**				
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		%	85%	
10	Area Classification			Safe area	
11	Other conditions			Onshore	
12					
13	**DRIVEN MACHINE DATA**				
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	**GENERAL MOTOR CHARACTERISTICS**				
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		%	15	
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 MANUFACTURER

67	**ACCESSORIES**		
68	Name plate material		RVS
69	Space heater		No
70	Separate space heater terminal box		No
71	Space heater voltage	V	-
72	Space heater frequency	Hz	-
73	Space heater power consumption	W	-
74	Stator Thermistor (PTC type) Quantity	N°	-
75	Thermistor Relay setting	°C	-
76	Bearing RTDs (Type 100 ohm @ 0°C)	N°	-
77	Winding RTDs (Type 100 ohm @ 0°C)	N°	-
78	Differential CTs		-
79	Surge protector		-
80	Vibration transmitter		-
81	Separate RTD terminal box		-
82	Separate space heater terminal box if space heater required		No
83	Main power (Cable type / cable size / gland size)		-
84	Space heater (Cable type / cable size / gland size)		-
85	RTDs/Thermistor (Cable type / cable size / gland size)		-
86	Position of Main terminal box (locking at motor coupling)		Top
87	Grounding studs On External Motor Frame	mm^2	-
88	Grounding studs Inside Main Terminal Box		-
89			
90			
91			
92			
93			
94			

	Notes: