



ASPC Project



END CUSTOMER	: Arya Sasol Polymer Company
CONTRACTOR	: DYPNF Co., Ltd.
VENDOR NAME	: Airpack Netherlands BV
EQUIPMENT DESCRIPTION	: Screw Compressor & Roots Blower : Package
PURCHASE ORDER NUMBER	: PO-PC2312-08

Customer Document : 3944-VD-0171-DYP-RE-400-~~LST-0004~~
Number

DSH - 0096




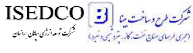
Airpack Document Number : 23383-10

Document Title : Main Motor Data Sheets




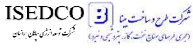
EED: Rejected.
Project MV Motor Data sheet (as attached)
shall be filled and submitted.
Filled data sheet belongs to LV motors.

Review Code and Status		Contractor Initials/Signature	Date signed
<input checked="" type="checkbox"/>	Code 1 REJECTED - Vendor to revise and Resubmit. Work cannot proceed		27 May 2025
<input type="checkbox"/>	Code 2 Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
<input type="checkbox"/>	Code 3 No Comments - Work may proceed.		
<input type="checkbox"/>	Code 4 Information only - Review not required.		

00	Issued for Approval	13-05-2025	SC	KP	JJ
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

CONTRACTOR :  	300 KT POLYETHYLENE PLANT ARYA SASOL POLYMER COMPANY (ASPC)						OWNER : 	
	MV MOTOR DATA SHEET AND PERFORMANCE CURVES						MC : : 	
Owner Document Number :	Owner Project No.	Vendor DOC.	Discipline	Unit	Type	Seq. No.	Rev. :	Page
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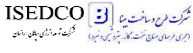
Rev.	MC/Client: All empty rows shall be filled out Title of document is include curves but curves have not been submitted in document					MC/Client: General note: Description Fields marked with a red asterisk must be filled in by the seller.		
00	Design Temp. Deg.C (Min / Max) : +5° C / 55° C				Vendor' s Name:			
00	Altitude:10m above sea level				Tag No. (s) : 44M-40001A/B -M1			
00	The plant structures, buildings and equipment foundations shall be designed to resist earthquake forces in accordance with ASCE 7-10/ ISDCPFS-Code 038 and for the defined seismic risk in Soil Report and Seismology Report. "Iranian Code for Seismic Resistant Design of Buildings", Standard No. 2800.				Quantity: 2			
00	Relative Humidity (Max / Design) : 100% / 80%				Climate: Dust, Sand, Sea Breeze			
Technical Data								
1-General :			Required			Vendor Data		
00	1-1 Cable info. :		Later			*		
00	1-2 Explosion Proof / Industrial Type		As per LV Motor specification & Explosion Proof Materials			*		
00	1-3 Earthing Cable		As per earthing detail instalation			*		
00	1-4 Location / Service		Process Area/ Pump/ Fan/ Mixer/ Comp. /...			Compressor		
00	1-5 Power Cable Gland Size		Later			M63x1.5		
2-Electrical Characterristic:			Required			Vendor Data		
00	2-1 Motor Type		Induction (Squirrel cage)			Induction		
00	2-2 Stator Winding		Delta			Delta		
00	2-3 Rotor Bar Material		Copper			Copper		
00	2-4 Stator Winding Type		By vendor					
00	2-5 Service Factor		1, 1			1, 1		
00	2-6 Duty Cycle		Duty type S1-Continious			S1		
00	2-7 Insulation Class / Temp. Rise		F/B			F/B		
00	2-8 Voltage, Variations (V)		400V/230V ±5% 3ph/1ph			6000v		
00	2-9 Frequency, Variations (Hz)		50HZ±2%					
00	2-10 Rated Current (A)		By vendor			50. 8a		
00	2-11 Number of Poles		By vendor			2		
00	2-12 Power Rating (kW)		By vendor			450 kW		
00	2-13 Power Factor (%)							
00	@1/4 Load		By vendor					
00	@2/4 Load		By vendor			0, 83		
00	@3/4 Load		By vendor			0, 87		
00	@4/4 Load		By vendor			0, 88		
00	Locked Rotor Power Factor							
00	2-14 Efficiency (%)							
00	@1/4 Load		By vendor					
00	@2/4 Load		By vendor			95, 9		
00	@3/4 Load		By vendor			96, 6		
00	@4/4 Load		By vendor			96, 6		
00	2-15 Speed (Synchronic & Full Load)		By vendor			2986		
00	2-16 Starting Method		DOL/VFD			DOL		

CONTRACTOR :  	300 KT POLYETHYLENE PLANT ARYA SASOL POLYMER COMPANY (ASPC)						OWNER : 	
	Data Sheet for MV Motors						MC : : 	
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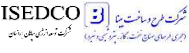
00	2-17 Starting Current (A) (@ Un/@ 0.8Un)	By vendor						
00	2-18 Starting Time (sec) (@ Un/@ 0.8Un)	By vendor						
00	2-19 Max Voltage Drop at Motor Terminals (%)	15						
00	2-20 Full Load Torque (N.m)	By vendor						1255
00	2-21 Starting Torque (% FLT)	By vendor						150
00	2-22 Max. Torque (%FLT)	By vendor						260
00	2-23 GD2 (Kg. m2)							
00	Rotor	By vendor						
00	Load	By vendor						10, 2
00	2-24 Withstand Fault Current (kA)	As per IEC by vendor						
00	Main Terminal Box	By vendor					TOP	
00	Auxiliary Terminal Box	By vendor					TOP	
00	2-25 No. of Starting per Hour:							
00	From Cold	3						
00	From Hot	2						
00	2-26 Time interval between two Consecutive starts							
00	From Cold (s)	By vendor						13
00	From Hot (s)	By vendor						7
00	2-27 Permissible locked rotor time (s):							
00	@100% voltage	By vendor						
00	@80% voltage	By vendor						
00	2-28 Torque-Speed Characteristics Curves (at 100% & 80% Rated Voltage)	By vendor						*
00	2-29 Current-Speed Characteristics Curves (at 100% & 80% Rated Voltage)	By vendor						
00	(at 100% & 80% Rated Voltage)	By vendor						
00	2-32 Max Locked Rotor Current at Rated Volts (%FLA)	By vendor						
00	3-Protection and Measurement:	Required						Vendor Data
00	3-1 Motor IP / Terminal Boxes IP	IP54 / IP55						IP55
00	3-2 Area Classification	Safe / Zone 1 / Zone 2						Zone 2
00	3-3 Explosion Protection	Exd / Exe/ Exde						Exde
00	3-4 Gas Group	IIB / IIC						IIB
00	3-5 Temperature Class	T3						T3
00	3-6 Certificate No.	By vendor						
00	3-7 PT100 / PTC	Not Required						PT100

MC/Client:
ATEX or IECEX certificate shall be mentioned

MC/Client:
Qty shall be mentioned

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00	3-8 Setpoint data for winding PTC:		
00	Trip	Not Required	
00	3-9 Noise Level	Less than 85 dBA @ 1m	80 dBA
00	3-10 Space Heater	Not Required	included
00	3-11 Impedance and fault Parameters:		
00	Subtransient Reactance X"d	By vendor	*
00	Transient Reactance X' d	By vendor	*
00	Synchronous Reactance Xd	By vendor	*
00	Stator AC Resistance (ohm @ oC)	By vendor	*
00	Max fault level (kA or MVA) & Duration	By vendor	*
00	Motor Warm-Up time constant	By vendor	*
00	Motor Cool-Dawn time constant	By vendor	*
00	Motor Stall time	By vendor	*
00	4. Mechanical Characteristic:	Required	Vendor Data
00	4-1 Motor Mounting	By vendor	b3t
00	4-2 Enclosure Type	By vendor	
00	4-3 Cooling Method	BY FAN (IC 411)	
00	4-4 Fan material (Non Sparking)	Brass/bronze/aluminium	
00	4-5 Direction of Rotation From NDE	By vendor	right
00	4-7 Coupling Type	By vendor	direct
00	4-8 Coupling Balance Tolerance	By vendor	
00	4-9 Air Gap	By vendor	
00	4-10 Bearing Type and Material (DE/NDE)	By vendor	6318-C3 / NU-218-C3
00	4-11 Max. Bearing Housing vibration velocity (mm/sec)	By vendor	
00	4-12 Max. Shaft vibration Displacement (mils p-p):		
00	3000 rpm	1 mils p-p	
00	1500 rpm	1.5 mils p-p	
00	1000 rpm	2 mils p-p	
00	4-13 Lubricating		
00	Grease/Oil/ Other	Grease	Grease
00	Self/ Forced	Self- Lubricated	Self-lubricated
00	Grease Relief Port (For regreasable Bearings)	Required	Included
00	4-14 Power Terminal Box		EX' e'
00	Type	By vendor	
00	Location From NDE (LHS/RHS)	By vendor	top
00	Direction of Cable Enterance	Bottom	right
00	4 Way Rotatiting Capability of Junction Box	Required	
00	4-15 Terminal Box for RTD		

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	Data Sheet for MV Motors						MC : : 	
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00	Location From NDE (LHS/RHS)	Not Required	top
00	Direction of Cable Entrance	Not Required	left
00	4-16 Terminal Box for Space Heater		
00	Location From NDE (LHS/RHS)	Not Required	
00	Direction of Cable Entrance	Not Required	
00	4-17 Base Plate	By vendor	
00	4-18 outline Dimension (mm)	By vendor	1990x896x1342
00	4-19 Weight (kg)	By vendor	4100
00	4-20 Motor IM Code	By vendor	B3T
00	4-21 Frame Size	By vendor	400L/J
00	4-22 Painting	By vendor	RAL 5010
00	4-23 Enclosure Type	By vendor	
00	4-24 Stator Frame Mterial	Cast Iron	Cast Iron
00	4-25 Stator Core/Bar	Copper	
00	4-26 Rotor Core/Bar	Copper	
00	4-27 Shaft	Steel	
00	4-28 Fans	Corsion Resistent-Non Sparking	
00	4-29 Cooler/Cooler Tubes	Corsion Resistent Material	
00	5-Testing and Inspection	Required	Vendor Data
00	5-1 Testing and Inspection	As per Related ITP	
00	Note 1: It will be specified for each motor as per requisition		
00	REMARKS: NDE: NON DRIVE END, OD: OUT DOOR, TF: TOTALLY ENCLOSED FAN COOLED, V: VERTICAL MOUNTED, B: BELT COUPLING, CP: CORROSION PROTECTED, F: FLANGE MOUNTED, H: HORIZONTAL MOUNTED, FLT: FULL LOAD TORQUE		