



PETROCHEMICAL INDUSTRIES
DESIGN & ENGINEERING CO.

PROJ. NO. : 1205



DENA METHANOL PLANT

COVER SHEET

OWNER :

SABALAN PETROCHEMICAL INDUSTRIES CO.

PROJ. NO. : 89/S-G/102

DATA SHEET

For

CENTRIFUGAL EXHAUST FAN FOR BATTERY ROOM IN SUBSTATION

DOCUMENT NO. : 1205-00-HV-DSH-022

TOTAL PAGES : 1 (Excluding Cover & Revision Index Sheets and attachments)

Note: For relevant records of the document, reference can be made to Sabalan Methanol Project documentation.

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Eng. Phase		Purpose Of Distribution (POD)		Purpose Of Issue (POI)		Owner's Action
00	15.10.2016	ISSUED FOR ENGINEERING		M.Mashayekh	M.Momenaie	A.Moadeli
Rev.	Date	Description		Prepared by	Checked by	Approved by
						Project



Data Sheet for Centrifugal Exhaust Fan for Battery Room in Substation

Doc. No.: 1205-00-HV-DSH-022

Rev. : 00

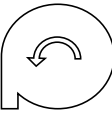
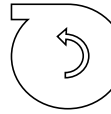
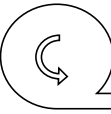
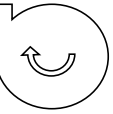
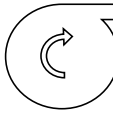
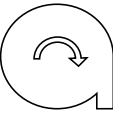
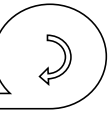
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 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1205	 DENA METHANOL PLANT Data Sheet for Centrifugal Exhaust Fan for Battery Room in Substation Doc. No.: 1205-00-HV-DSH-022 Rev. : 00	OWNER : SABALAN PETROCHEMICAL INDUSTRIES CO. PROJ. NO. : 89/S-G/102
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NO.	GENERAL									
1	Tag No. EX-0032 A/B									
2	Duty Permanent									
3	Type ☐ Wall Mounted ☐ Duct Mounted ☒ Utility (Centrifugal) ☐ Roof Type ☐ Other									
4	Quantity (Working + Standby) 1+1					Operating Weight Kg *				
5	Service Battery Room					Type of Driver El. Motor				
6	Overall Size l x w x h m x m x m *					Installation Outdoor				
7	Inlet : (Single / Double) Single					Impeller Type *				
8	SITE CONDITION									
9	Location / Latitude Assaluyeh / 28.5° N									
10	Altitude m 34									
11	Ambient Air Temperature Max / Min °F 118.4 / 41									
12	Wet Bulb Temp °F 91.4									
13	OPERATING CONDITIONS									
14	Gas Composition Air					Suction Press. in.w.g -0.8				
15	Molecular Weight 29					Discharge Pressure in.w.g Atm.				
16	Air Flow Rate Rated cfm 525					Differential Pressure in.w.g 0.8				
17	Normal cfm 475					Suc. Temp. Min °F -				
18	Relative Humidity at Suction Max % 65					Max °F 89.6				
19	FAN DATA					MOTOR DATA				
20	Make/Origin * / *					Make/Origin * / *				
21	Model No. *					Model No. *				
22	Fan Diameter m *					Input Power Kw *				
23	Fan Speed rpm *					Speed rpm *				
24	Material / Thickness Casing mm * Note 4					Insulation Class / Temperature Rise * / *				
25	Impeller mm * Note 4					Power Supply V/Ph/Hz 400 / 3 / 50				
26	Material Shaft * Note 4					Degree of Protection IP 55				
27	Pulley * Note 4					System Full Load Current A *				
28	Material / Make / Origin Belt * / * / * Note 4					System Power Factor % *				
29	Finish Casing *					Hazardous Classification EExd IIC T3				
30	Impeller *					Motor Efficiency % *				
31	ACCESSORIES									
32	Required More Specification					Required More Specification				
33	Pulley Guard * *					Base Yes * steel channel profile				
34	Belt Guard * *					Safety Screen Outlet *				
35	Bearing Guard * *					Vibration Isolator Yes *				
36	Air Flow Switch / Model No. Yes *					Gravity Damper Yes *				
37	Drain Hole Yes *					Inlet Connection Yes Flanged				
38	Elec. Terminal Junction Box Yes IPW 55, With Cable Gland					Outlet Connection No -				
39	LOCAL CONTROL STATION									
40	Required N.A.					Installation Location -				
41	On / Off / Trip Indicating Lights -					Degree of Protection -				
42	Start / Stop Push Buttons -					Hazardous Classification -				
43	Miscellaneous Requirements -									
44	NOISE SPECIFICATION									
45	Noise level @ 1 meter from ex. Fan db *					Noise level @ exhaust air db *				
46	DIRECTION OF DISCHARGE (Note 2 & 3)									
47	☐ ☒ ☐ ☐ ☐ ☒ ☐ ☐									
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REMARKS:

- 1 * To be filled by vendor.
- 2 Direction of rotation is determined from drive side of fan.
- 3 Upper left side exhaust for EX-0030A & upper right side exhaust for EX-0030B.
- 4 All fan parts that are in contact with air stream, should be selected from acid resistant and spark proof material.
- 5 N.A. Not Applicable.
- 6 IPW 55 protection for junction boxes, motor terminal boxes, control stations, panel boards, and auxiliary equipment should be considered.