







OWNER 	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	<b>Compressor motor data sheet for reciprocating compressor</b>								
MC :  شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-10	BU	20	VD	303	EL	DSH	0051	Rev.:	Page
								00	1 of 4

EL.01:Data sheet shall be fulfilled according to attach file. it will be checked after filling out this format. You can also refer to attached file in MRQ.



This document is checked only for compressor 7080. New document should be generated for compressor 1002.

## Compressor Motor Data Sheet for reciprocating compressor

 شرکت پتروشیمی اوشهر	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	<b>BUSHEHR PETROCHEMICAL COMPANY MEG PLANT</b>
<b>Document Review</b>		
Issue Purpose:	FA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May.05.2021	
<b>Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.</b>		

00	08/12/2020	For approval	KP	KP	PW	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
						Class: 1 Phase: 1



**BUSHEHR PETROCHEMICAL COMPANY  
MEG PLANT**

**Compressor motor data sheet  
for reciprocating compressor**

EPC CONTRACTOR:



Owner Document Number: 17811-10	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	BU	20	VD	303	EL	DSH	0051	Rev.:	Page
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**TABULATION OF REVISED PAGES**

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Compressor tag number  
must be added.



MAIN MOTOR DATA SHEET

PROJECT :	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT	PROJECT N°:	UNIT	DOCUMENT N°	SHEET	REV
CLIENT:	BUPC	17811		17811-10	1 of 2	0

1	Item:	Main motor	Quantity:	<del>2</del>
2	General specification:	BU-20-D-000-EL- SPC-521-03	Standards, codes:	IEC60034
3	Supplier:	Airpack	Manufacturer:	WEG
4		<b>Unit</b>		One
5	<b>ENVIRONMENTAL CONDITIONS</b>			
6	Installation (indoor/outdoor) / Ambient Type		outdoor	
7	Ambient Design Temperature (Min./Max.)	°C	0-55	
8	Altitude (if > 1000m)	m	1000	
9	Relative Humidity	%	65 - 100	
10	Area Classification		Hazardous area	
11	Other conditions		Onshore, tropicalized	
12				
13	<b>DRIVEN MACHINE DATA</b>			
14	Machine Type		Compressor	
15	Shaft power at PSV set-point / Shaft power at operating point	kW	~11,5 / 10	
16	Coupling type (direct / V-belt)		V-belt	
17				
18	Driven Machine Inertia (WR2)	kg.m2	TBC	
19	Starting		unloaded	
20				
21	<b>GENERAL MOTOR CHARACTERISTICS</b>			
22	Rated power	kW	15	
23	Poles	N°	4	
24	Voltage	V	400	
25	Frequency	Hz	50	
26	phase	N°	3	
27	Motor type		Squirrel Cage	
28	Fan execution		Anti-Static	
29	Motor material		Aluminium die cast	
30	special execution		NA	
31	Direction of Rotation (looking at motor coupling)		Bi-directional	
32	Mounting		B3T	
33	Protection degree enclosure	IP	56	
34	Protection degree terminal box	IP	56	
35	Atex protection Motor		Exdb	
36	Atex protection terminal box		Exdb	
37	Area Classification according ATEX		Ex I/II 2G Ex db/db eb IIB T4 Gb	
38	Axial Bearing Type (NDE)		Roller	
39	Bearing Code (NDE)		6308-C3	
40	Axial Bearing Type (DE)		Roller	
41	Bearing code (DE)		NU309-C3	
42	Lubrication type		grease	
43	Lubrication interval	hr	20000	
44	Cooling method		TEFC-XP	
45	Winding treatment		tropicalized	
46	Starting method		DOL	
47	Winding Connection		DELTA	
48	Number of terminals brought out	N°	6	
49	Min. Insulation Class		B	
50	Max Temperature Rise		F	
51	Painting standard		C3M high	
52	Painting Colour		as per painting procedure	
53	Motor Nett Weight	Kg	211	
54	Dimension (L x W x H)	mm	717x509x308	
55	Frame Size		160ML	
56	Noise Level at 1 m (at full load)	dB(A)	61	
57	Full Load Speed	rpm	1475	
58	starting / Locked Rotor current	A	239	
59	Max. voltage drop at starting	%	20	
60	Rated current	A	28,5	
61	No load current	A	13,9	
62	Full load Torque	Nm	77,7	
63	Efficiency 4/4		93,9	
64	Efficiency 3/4		93,6	
65	Efficiency 2/4		92,7	
66	Power Factor 4/4		0,81	
67	Power Factor 3/4		0,75	
68	Power Factor 2/4		0,63	
69	Total no. of start per hour : hot		2	
70	Total no. of start per hour : Cold		3	
71	Duty type		S1	
72	Service Factor		1.0	

TO BE COMPLETED BY PURCHASER & BY DRIVEN MACHINE SUPPLIER

