



NASHPA COMPRESSION PROJECT PHASE-II

ISSUED FOR TENDER

0	Mar 09, 2018	Issued for Tender	JAB	ZHW	AIB	MHQ	MAS		
A	Feb 13, 2018	Issued for Review & Approval	JAB	ZHW	AIB	MHQ	AHB		
REV	DATE	DESCRIPTION	ORIG	CHKD	LE	QA	PM	LOCAL REPR.	PROJ. MAN.




ENAR Petrotech Services (Pvt.) Limited , 7-B ,
Sector 7-A , Korangi Industrial Area , Karachi
Pakistan

DOCUMENT TITLE:

**DATA SHEET FOR INSTRUMENT AIR
COMPRESSOR MOTOR (K-3401CM)**

	0193	ELA	6505	0	
CONTRACT NO. 14-0193	CODE	TYPE	SEQ NO.	REV.	-

 ENAR PETROTECH SERVICES (PRIVATE) LIMITED Plot No. 7-B, Sector-7A Korangi Industrial Area Karachi-74900	DATA SHEET FOR INSTRUMENT AIR COMPRESSOR MOTOR (K-3401CM)				PROJECT NO. : 14-0193	
					REV. NO. : 0	
	PROJECT NAME : NASHPA COMPRESSION PROJECT PHASE-II				DATE : 9-Mar-18	
	CLIENT : OIL & GAS DEVELOPMENT CO. LTD. (OGDCL)				SHEET : 2 of 2	
	DOCUMENT NO. : 0193-ELA-6505-0					

LV A.C INDUCTION MOTORS										
GENERAL SPECIFICATION					VENDOR DATA					
1	Equipment Tag	K-3401CM		Qty	1	34	Manufacturer	VTA		
2	Equipment Service	Air Compressor Motor				35	Frame Size	VTA		
3	Motor Type	Squirrel Cage Induction Motor				36	Frame Material	VTA		
4	Rated Output	75 (VTC Note-12)		kW		37	Full Load Current	VTA	A	
5	Rated Voltage	400		V		38	Locked Rotor Current	VTA	A	
6	Allowable Volatage Variation	± 10%				39	Starting Current Ratio	VTA	A	
7	Frequency (Hz)	50				40	Rated Torque	VTA	Nm	
8	Allowable Frequency Variation	± 2%				41	Moment of Inertia	VTA	kgm ²	
9	Phase	3				42	Rated Power	75kW (VTC Note-12)		
10	Speed	To suit application				43	Starting Power Factor	VTA		
11	No. of Poles	To suit application				44	Mounting	VTA		
12	Duty Type	Continuous				45	Coupling Method	<input checked="" type="checkbox"/> Direct	<input type="checkbox"/> V-Belt	<input type="checkbox"/> Gear Box
13	Service Factor	1				46	Rotation (Facing Drive End)	<input type="checkbox"/> Clockwise	<input type="checkbox"/> Anti-Clockwise	
14	Enclosure	TEFC				47	Noise Level	85 dBA at 1 m		
15	Ingress Protection	IP 55	Motor	IP 65	Terminal Box	48	Hazardous Area Certification	N/A		
16	Insulation Class	F				49	Weight of Motor	VTA	kg	
17	Temperature Rise	B				50	Vibration	IEC-60034 & applicable IEC standards		
18	Motor Starting Method	<input type="checkbox"/> DOL	<input checked="" type="checkbox"/> Y-D	<input type="checkbox"/> VFD	<input type="checkbox"/> SoftStart	51	Efficiency	IE3-Efficiency Class as per IEC-60034-30-1		
19	Location	<input checked="" type="checkbox"/> Outdoor		<input type="checkbox"/> Indoor		52	100% Load	VTA	%	
20	Area Classification	<input type="checkbox"/> Hazardous		<input checked="" type="checkbox"/> Safe		53	75% Load	VTA	%	
21	Class					54	50% Load	VTA	%	
22	Zone					55	No Load			
23	Group					56	Power Factor			
24	Temperature Class					57	100% Load	≥ 0.9		
25	Altitude	2700 Ft				58	75% Load	≥ 0.9		
26	Humidity	Maximum	70%	Minimum	10%	59	50% Load	VTA		
27	Ambient Temperature	Maximum	115 °F	Minimum	35 °F	60	No Load	VTA		
28	Space Heater	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VTA	Watt	230	Volt	61	Bearing	
29	Winding RTD	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2	Nos.	Per	/ ph	62	Tpye	
30	Power Cable Size	See Note-11				63	Drive End	VTA		
31	No. of Power Cable Runs	01 (One)				64	Non-Drive End	VTA		
32	Cable Type	0.6/1kV,CU/XLPE/PVC/SWA/PVC				65	Lubricant	VTA		
33	Cable Gland	See Note-11				66	Motor Specification	0193-ELA-6504		

NOTES:

- Vendor shall provide the Motor Data Sheet with Thermal Curve, Performance Curves of Torque & Speed X Current on 80% & 100% of rated voltage of the offered model.
- Please refer to Specification for Motors 0193-ELA-6504 for detail specifications.
- Vendor shall provide a routine test certificate for each motor.
- Equipments shall be designed as per area classification.
- Vendor advice enclosure material which is suitable for atmosphere that is made corrosive by traces of chemicals noramllly present in a petroleum processing facility and in an environment that may include high humidity, storms, salt-laden air etc.
- Vendor to submit the coupling method details with drawings for OGDCL approval prior to manufacturing.
- Vendor to ensure that voltage surges or rate of rise of Voltage surges shall not jeopardize the motor winding and its insulation life.
- Cable Gland shall be nickel plated brass & suitable for area classification.
- Vendor shall fill the remaining unfilled data of this data sheet.
- Power factor of all L.V Motors shall be greater than or equal to 0.9 at 100% & 75% load.
- To be confirmed by EPCC during detail Engineering.
- New Air Compressor Motor (K-3401CM) shall be identical to existing motors (K-3401 A/BM) w.r.t rating and other parameters, so that parallel operation with existing motors (K-3401 A/BM) can be achieved. Minimum name plate rating will be 75 kW.

VTA - Vendor to Advise/Provide VTC - Vendor to confirm