Manufacturer Bharat Bijlee Ltd.			Customer			
<b>Type of motor 3 Pha</b>	se Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
lag no.			Output kW / pole	5.5	/	8P
BBL type tef.		2J16M833	Frame size		MJ160	
nstallation details			Applicable standards (latest edition)	I		
Area classification (Saf	e / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mote	ors: IS/IEC 6	50079-1
Location: indoor/outdo	or/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
Annual (meters)		1000 01 1055	Noise level: IS 12075			
Hazardous area details	a		Supply conditions and permissible variations (gri	daunnh		
		ZONE I				
Area classification GAS (Zone 1/Zone 2)			Number of phases	417	Three	
Bas group		IIA, IIB	Voltage (Volts) and permisible variation	415		0%
Temp.class	•	T5	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion prot e'/Type 'n')	ection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for	r hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parameters			1	1		
Starting performance						
Aethod of starting		DOL	Starting current (%FLC)		440	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		170	
		0.291	Pull out torque (%FLT)		220	
$\frac{\text{Motor GD}^2 (\text{kgm}^2)}{2}$				• •	220	10
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
oad torque-speed curv	ve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rated vo	oltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performance	,					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
•	hy registeres (deg C)		CDF/Equivalent starts per hour/FI		ommuous	
Ambient temp./temp.ms	se by resistance (deg.C)		CDF/Equivalent starts per noui/Fi		-	
Enclosure		TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL		F/B	
		FAN COOLED)			<u>C. 1 C</u>	
Full load current (FLC)	amps.	12.2	Rotor type (Squirrel Cage/ Slip ring )		Squirrel Ca	U
Full load speed (rpm)	-	715	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	ble
Full load torque (FLT)	0	7.5	Stator/rotor time constant (min)		90/122	
Efficiency in % at FL/0		83.8 83.8 82.5	Power factor at FL/0.75FL/0.5FL	0.75	0.68	0.55
Mechanical parameter	rs					
Aounting		B8	Mounting dimensions	Re	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protection		IP 55	Suitable for bidirectional rotation		Yes	
Method of cooling (TE	FC/forced					
cooled/TESC)		TEFC (IC 411)	Paint type	A	cid Alkali F	roof
Net weight of motor (kgs.)		148	Paint shade	632 as per IS 5		
	0~1		Earthing provision (two terminals on stator body)	Yes		
Bearings			<i>Terminal box</i>	I	1 00	
Coupling (Direct/flexib	le/Relt &					
		Direct	Terminal box location when viewed from DE	As	per GA dra	awing
Pulley/Gearbox) Dimenssions of pulley (OD x width) mm			Direction of cable entry	As per GA drawing		
	``````````````````````````````````````	- 			•	<u> </u>
Bearings (roller/ball/an	gular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X	X 3C X 35 S	SQ MN
Bearing size DE/NDE		6209 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of		3 / NEI TA	16
Type of lubrication		LITHUM SUAP DASE GREASE	terminals		3 / DELTA	/ U
ccessories						
RTDs - 3 numbers simple	olex (w/o controller)		Arrow plate for direction of rotation			
<b>A</b>	earing (w/o controller)		Double compression glands (main cable)			
1			Double compression glands (main cable) Double compression glands (Space			
Space heaters - single phase 50z, 230V			heater/thermisters/RTDs)			
Thermisters - PTC, 1 r	umher ner nhace		Brake (Type/voltage/torque)			
Additional T-Box for A	<u> </u>					
$\sim 1 \sim 1$	1005501105			1		
Additional nameplate						

Notes:

1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.

3)Motor  $GD^2$  = Load  $GD^2$  assumed wherever not mentioned.

4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.

5)Kilowatt rating is mandatory and HP is approximate.

6) Accessories provided are marked as "YES"

		Prepared by	
		Approved by	
		Revison	
Project:	Contractor/Client	Date:	
Consultant	Package	Date.	