Bharat Bijlee			for motors				
	arat Bijlee Ltd.		Customer				
	nase Induction Motor		BBL Enquiry reference No				
Quantity			Customer P.O.Number				
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.				
ag no.			Output kW / pole	11	/	4P	
BL type tef.		2J16M4K3	Frame size		MJ160		
stallation details			Applicable standards (latest edition)				
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	tors: IS/IEC	60079-1	
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223				
Altitude (meters)		1000 or less	Vibrations: IS 12075				
			Noise level: IS 12065				
Iazardous area deta			Supply conditions and permissible variations (gri	d supply			
Area classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases	Three			
las group		IIA, IIB	Voltage (Volts) and permisible variation	415	±	10%	
emp.class		T5	Frequency (Hz) and permissible variation	50	<u>+</u>	5%	
ype of Explosion pro '/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%		
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO					
Electrical parameter							
<i>tarting performance</i>	e de la construcción de la const	DOI	Starting and (0/ FT ())				
Method of starting		DOL CUSTOMED TO EUDNISU	Starting current (%FLC)		650		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240		
1000000000000000000000000000000000000		0.285	Pull out torque (%FLT)		270		
oad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	16	
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3		
tarting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS					
Running Performan	се						
Efficiency class		IE2	Duty and designation	Continuous (S1)		(S1)	
•	rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI	- Continuous (S1)		(01)	
anoient temp./ temp.	(ucg.c)	TEFC (TOTALLY ENCLOSED	CD1/Equivalent starts per noui/11				
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL		F/B		
Full load current (FLC		20.5	Rotor type (Squirrel Cage/ Slip ring)		Squirrol C	200	
Full load speed (rpm)	/ L	1465	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Squirrel CageNot applicable		0	
		7.31			90/122		
Full load torque (FLT			Stator/rotor time constant (min)	0.92			
Efficiency in % at FL		89.8 89.8 88.5	Power factor at FL/0.75FL/0.5FL	0.83	0.78	0.68	
<i>Aechanical paramet</i>	ers	Do		а	ofor CA dr		
Mounting		B8 Single cylindrice1	Mounting dimensions	Refer GA drawing		<u> </u>	
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		se	
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes			
Aethod of cooling (T ooled/TESC)	EFC/Iorced	TEFC (IC 411)	Paint type	Acid		d Alkali Proof	
Net weight of motor ((kgs.)	157	Paint shade		632 as per	IS 5	
			Earthing provision (two terminals on stator body)		Yes		
Bearings			Terminal box				
Coupling (Direct/flex	ible/Belt &	Direct	Torminal how location when views 1 from DE	•			
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing			
Dimenssions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing			
earings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 35 SQ MM			
Bearing size DE/NDB	E	6209 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)		Yes		
Type of lubrication			No of phases/Winding connection/number of		A / 6		
ccessories		<u>I</u>		<u> </u>			
	nplex (w/o controller)		Arrow plate for direction of rotation				
	bearing (w/o controller)		Double compression glands (main cable)				
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/thermisters/RTDs)				
Space heaters - single Thermisters - PTC , 1			Brake (Type/voltage/torque)				
	number per phase						

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.	