Ianufacturer	Bharat Bijlee Ltd.		Customer			
ype of motor	3 phase Induction Motor		BBL Enquiry reference No			
Juantity			Customer P.O.Number			
Application	CUSTOME	R TO FURNISH	W.O. No. / SAP No.			
ag no.			Output kW / Pole	1.5	/	8P
BL type Ref.		MD11M815	Frame size		MJ112	
nstallation deta	ils		Applicable standards (latest edition)			
rea classificatio	on (Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 6	60079-1
Location: indoor/outdoor/deck Indoo		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Iazardous area			Supply conditions and permissible variations (grid	supply)		
Area classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases	Three		<u></u>
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415 ±10%		
Temp.class		T5	Frequency (Hz) and permissible variation	50 ±5%		%
(EL D/Type 'o'/Type 'n') Approving authority for hazardous area		Ex 'd' If Mine application then DGMS else PESO	Combined variation (absolute sum)		±10%	
lectrical param	neters					
tarting perform						
Iethod of startin		DOL	Starting current (%FLC)	380		
oad speed (rpm))	CUSTOMER TO FURNISH	Starting torque (%FLT)		170	
lotor GD ² (kgm	1 ²)	0.051	Pull out torque (%FLT)		220	
oad GD^2 (kgm ²	·	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOV DETAILS	Ξ			
unning Perform	nance			1		
Efficiency class		-	Duty and designation	Continuous (S1)		S1)
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI			
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.		3.9	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		·
Full load speed (rpm)		705	Rotor voltage/rotor current (RV/RA) (Volts/Amps)			le
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		2.08	Stator/rotor time constant (min)	0.70	#N/A	0.50
<i>Techanical para</i>		77.0 77.0 75.0	Power factor at FL/0.75FL/0.5FL	0.70	0.62	0.50
Iounting	intelers	B5	Mounting dimensions	R	efer GA draw	vina
haft extention		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing Clockwise		
	tion	IP 55	Suitable for bidirectional rotation	Yes		
Degree of protection						
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		
let weight of mo	otor (kg)	70	Paint shade	632 as per IS 5		
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>	Yes		
Coupling (Direct/flexible/Belt & 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		
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 16 SQ MM		
Bearing size DE/NDE		6206 2Z C3/6206 2Z C3	Earthing provision (one terminal in TB)	Yes		
ype of lubrication.	on	LITHIUM SOAP BASE GREAS			3 / STAR / 3	3
ccessories	• 1 / / • • • • •			1		
RTDs - 3 numbers simplex(w/o controller)		Arrow plate for direction of rotation				
BTDs - 1 number per bearing(w/o controller)			Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/Thermisters/RTDs)			
hermisters - PT			Brake (Type/voltage/torque)			
	k for Accessories					
dditional T-Box	1					

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			