	Bijlee		et for motors	_		
Manufacturer	Bharat Bijlee Ltd.		Customer			
Гуре of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application CUSTOMER TO		R TO FURNISH	W.O. No. / SAP No.			
Гаg no.			Output kW / Pole	15	/	6P
BBL type Ref.		MD18L613	Frame size		MJ180	
Installation detail	Ś		Applicable standards (latest edition)			
Area classification	(Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	tors: IS/IEC	60079-
Location: indoor/o	utdoor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area d	letails		Supply conditions and permissible variations (grid	supply)		
Area classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases	Three		
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	± 1	0%
Femp.class		Τ5	Frequency (Hz) and permissible variation	50	±5	5%
	-	Ex 'd'	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Mine application then DGMS else PESO				
Electrical parame	eters					
Starting performa	ince					
Method of starting		DOL	Starting current (%FLC)	550		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		260	
Motor GD^2 (kgm ²)		0.68	Pull out torque (%FLT)	230		
Load GD ^{2} (kgm ^{2})		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	12	/	24
Louis CD (KEIII)			Number of consecutive starts (hot/cold) (nos.)		· · ·	<i></i> - T
Load torque-speed curve		Parabolic TS curve	provided Load GD2 = Motor GD2		2/3	
Starting time at rat	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	ance			-		
Efficiency class		-	Duty and designation	Continuous (S1)		(S1)
Ambient temp./ten	np.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.		29.0	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		ige
Full load speed (rpm)		965	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		0
Full load torque (FLT) kg-m		15.1	Stator/rotor time constant (min)	108/146		
▲ `	FL/0.75FL/0.5FL	90.0 90.0 87.0	Power factor at FL/0.75FL/0.5FL	0.80	0.75	0.62
Mechanical paran		2010 2010 0710		0.00		0.01
Mounting		B8	Mounting dimensions	R	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing Clockwise		<u> </u>
Degree of protection	01	IP 55	Suitable for bidirectional rotation			~
Jegree of protection		11 33		Yes		
Method of cooling	(TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		roof
Net weight of motor (kg)		210	Paint shade	632 as per IS 5		S 5
			Earthing provision (two terminals on stator body)	Yes		
Bearings		I	Terminal box	1	~ ~ 5	
	lexible/Belt &					
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	A	s per GA dra	awing
Dimensions 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)	2R X 3C X 50 SQ M		<u> </u>
		6310 2Z C3/6310 2Z C3	Earthing provision (one terminal in TB)	Yes		-
Bearing size DE/NDE Type of lubrication		LITHIUM SOAP BASE GREASE		3 / DELTA / 6		/ 6
	1	LITTION SOAL DASE OKEASE	tamminala		J / DELIA	/ U
Accessories	ain a 1 a - (/		A morry plate for dimension for the			
KIUS - 3 numbers	simplex(w/o controller)		Arrow plate for direction of rotation			
	per bearing(w/o controller)		Double compression glands (main cable)			
	ngle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)			
BTDs - 1 number			Brake (Type/voltage/torque)			
BTDs - 1 number j Space heaters - sin			Brake (Type/voltage/torque)			

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			