/Ianufacturer	Bharat Bijlee Ltd.		Customer				
	3 phase Induction Motor		BBL Enquiry reference No				
Quantity	CUSTOME		Customer P.O.Number				
Application	CUSIOME	R TO FURNISH	W.O. No. / SAP No.		1		
ag no.		MD10L833	Output kW / Pole Frame size	1.1	/ / MJ10	0	8P
BL type Ref. Installation detai	 :1 _a	MID10L855	Applicable standards (latest edition)			0	
	n (Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ore. IC/IE	<u> </u>	070 1
ocation: indoor/		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		015.15/10		079-1
ltitude (meters)		1000 or less	Vibrations: IS 12075				
Innude (meters)			Noise level: IS 12075	+			
Iazardous area d	dotails		Supply conditions and permissible variations (grid	<u>supply</u>			
_		ZONE I	Number of phases	supply)	Three	<u> </u>	
Area classification GAS (Zone 1/Zone 2) Gas group		IIA, IIB	Voltage (Volts) and permisible variation	$415 \pm 10\%$			
		T5	Frequency (Hz) and permissible variation				
Femp.class		Ex 'd'	Combined variation (absolute sum)	$50 \pm 5\%$ $\pm 10\%$			
(EL D/Type 'o'/Type 'n') Approving authority for hazardous area		If Mine application then DGMS else PESO		±10%			
Slectrical param	eters						
tarting perform							
Iethod of starting		DOL	Starting current (%FLC)	T	330		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	190			
$\frac{1}{10000000000000000000000000000000000$		0.027	Pull out torque (%FLT)	230			
$rad GD^2 (kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/		60
Uau OD (Kgm))		Number of consecutive starts (hot/cold) (sec)		/		
Load torque-speed curve		Parabolic TS curve PLEASE FURNISH ALL ABOV	provided Load GD2 = Motor GD2	2/3			
e	ated voltage (sec)	DETAILS					
Cunning Perform	nance				~		
Efficiency class		-	Duty and designation	Continuous (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			
ull load current (FLC) amps.		2.9	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage			
Full load speed (rpm)		690	Rotor voltage/rotor current (RV/RA) (Volts/Amps)				
full load torque ()		1.56	Stator/rotor time constant (min)		108/14	-6	
•	t FL/0.75FL/0.5FL	74.0 73.0 71.0	Power factor at FL/0.75FL/0.5FL	0.71	0.62		0.48
Iechanical para	imeters					•	
Iounting		B8	Mounting dimensions		efer GA d		ng
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise			
legree of protect	tion	IP 55	Suitable for bidirectional rotation Yes				
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof			
let weight of mo	tor (kg)	59	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 1		MM	
Bearing size DE/NDE		6206 2Z C3/6206 2Z C3	Earthing provision (one terminal in TB)	Yes			
ype of lubricatio	Dn	LITHIUM SOAP BASE GREAS			3 / STAF	R / 3	
ccessories							
RTDs - 3 numbers simplex(w/o controller)			Arrow plate for direction of rotation				
	per bearing(w/o controller)		Double compression glands (main cable)Double compression glands (Space				
•	ingle phase 50z, 230V		heater/Thermisters/RTDs)	<u> </u>			
	С		Brake (Type/voltage/torque)	<u> </u>			
Thermisters - PTC		·					
	for Accessories			_			

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			