Manufacturer	Bharat Bijlee Ltd.		Customer				
	3 phase Induction Motor		BBL Enquiry reference No				
Quantity	5 phase multion wrotor		Customer P.O.Number				_
Application	CUSTOME	R TO FURNISH	W.O. No. / SAP No.	-			
Tag no.			Output kW / Pole	1.5	/	(	6P
BBL type Ref.		MD10L635	Frame size		, MJ10		
nstallation detail	ls		Applicable standards (latest edition)				
Area classification	n (Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	ors: IS/IE	C 6007	79-1
Location: indoor/o	outdoor/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	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three		
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	<u>+</u>	:10%	
Femp.class	THORECHON	T5	Frequency (Hz) and permissible variation	50		±5%	
$\frac{\mathbf{F}}{\mathbf{F}} = \frac{\mathbf{F}}{\mathbf{F}} = \frac{\mathbf{F}}{\mathbf{F}$		Ex 'd'	Combined variation (absolute sum)		±10%	)	
Approving author	ity for hazardous area	If Mine application then DGMS else PESO					
Electrical parame							
Starting perform							
Method of starting		DOL	Starting current (%FLC)	400			
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	200			
$\frac{1}{2}$ Motor $\frac{GD^2}{2}$ (kgm <sup>2</sup> )		0.025	Pull out torque (%FLT)		250		
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/		30
Load torque-speed	d curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3		
starting time at ra	ted voltage (sec)	PLEASE FURNISH ALL ABOVI DETAILS	Ξ				
<b>Running Perform</b>	nance						
Efficiency class		-	Duty and designation	Continuous (S1)			
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI				
nclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B			
Full load current (	FLC) amps.	3.7	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage			
Full load speed (rj		935	Rotor voltage/rotor current (RV/RA) (Volts/Amps)				
Full load torque (I		1.57	Stator/rotor time constant (min)		108/14		
•	FL/0.75FL/0.5FL	78.0 75.0 72.0	Power factor at FL/0.75FL/0.5FL	0.72	0.64	0.	0.52
Mechanical para	meters					•	
Mounting		B5	Mounting dimensions	Refer GA drawing			
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise			
Degree of protecti		IP 55	Suitable for bidirectional rotation	r bidirectional rotation Yes			
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof			
Net weight of mot	tor (kg)	60	Paint shade	632 as per IS 5			
Vet weight of motor (kg)			Earthing provision (two terminals on stator body)	<b>_</b>			
Bearings			<i>Terminal box</i>		1 05		
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing			
Dimenssions of pu	ulley (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/N			Earthing provision (one terminal in TB)	Yes			
Type of lubricatio	n	LITHIUM SOAP BASE GREASE	tominala		3 / STAF	R / 3	
Accessories	• •						
	s simplex(w/o controller)		Arrow plate for direction of rotation				
BTDs - 1 number per bearing(w/o controller)			Double compression glands (main cable)				
51D5 - 1 Humber	ngle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)				
			Brake (Type/voltage/torque)				
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	
<b>Project:</b>	Contractor/Client	Deter	
Consultant	Package	Date:	