Manufacturer	Bharat Bijlee Ltd.		Customer			
	3 phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
ApplicationCUSTOMERT			W.O. No. / SAP No.	15	1	
Tag no.			Output kW / Pole	15	/	2P
BBL type Ref.		MD16M253	Frame size		MJ160	
Installation detai			Applicable standards (latest edition) D <td></td> <td></td> <td></td>			
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck		Hazardous area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:900Dimensions: IS 1231/IS 2223/IS:8223	FLP Mot	tors: IS/IEC 6	50079-
Altitude (meters)		1000 or less	Vibrations: IS 12075Noise level: IS 12065			
Hazardous area d	details	1	Supply conditions and permissible variations (grid	supply)		
•	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10)%
Femp.class		T5	Frequency (Hz) and permissible variation	50	±10	
rype or Explosion	n protection			50		70
(ELD/Type 'e'/Type 'e') Approving authority for hazardous area		Ex 'd'If Mine application then DGMS	Combined variation (absolute sum)		±10%	
Electrical param	•	else PESO				
Starting perform						
Method of starting		DOL	Starting current (%FLC)		600	
Load speed (rpm)	0	CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
		0.171			300	
$\frac{\text{Motor GD}^2 (\text{kgm}^2)}{2}$			Pull out torque (%FLT)			
Load 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	
Starting time at ra	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS	E	1		
Running Perform	nance			1		
Efficiency class		-	Duty and designation	Continuous (S1)		S 1)
Ambient temp./ter	mp.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.	26.2	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (r		2920	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m		5.01	Stator/rotor time constant (min)	90/122		/10
A	t FL/0.75FL/0.5FL	89.5 89.0 87.0	Power factor at FL/0.75FL/0.5FL	0.89	0.88	0.82
•		09.3 09.0 07.0		0.09	0.88	0.82
Mechanical para	meiers	Do	Monnetin a dimensiona		afar C A draw	
Mounting		B8	Mounting dimensions	Refer GA drawing		<u> </u>
Shaft extention	•	Single cylindrical	Direction of rotation viewed from DE	Clockwise)
Degree of protect	ion	IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of mo	tor (kg)	154	Paint shade	632 as per IS 5		5 5
	(IIG)		Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Bearings	$f_{\rm Dat} = \frac{1}{2}$					
Coupling (Direct/	nexidie/Beit &	Direct	Terminal box location when viewed from DE	As	s per GA drav	wing
Pulley/Gearbox) Dimenssions of p	ulley (OD x width) mm		Direction of cable entry	As per GA drawin		C
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 35 SQ MM		
Bearing size DE/NDE		6209 2Z C3/6209 2Z C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		LITHIUM SOAP BASE GREASE	INO OF MASE WITCHING CONTRECTION/INTERPORT	3 / DELTA / 6		6
Accessories		Τ		T		
RTDs - 3 number	s simplex(w/o controller)		Arrow plate for direction of rotation			
	per bearing(w/o controller)		Double compression glands (main cable) Double compression glands (Space			
•	ngle phase 50z, 230V		heater/Thermisters/RTDs)			
Thermisters - PTC			Brake (Type/voltage/torque)			
				1		
Additional T-Box Additional namep						

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			