Manufacturer	Bharat Bijlee Ltd.		Customer			
<b>Type of motor</b>	<b>3 phase Induction Motor</b>		BBL Enquiry reference No			
Quantity	CUCTOME		Customer P.O.Number			
Application CUSTOMER TO FURNISH		W.O. No. / SAP No.		1	<u> </u>	
Fag no.		MD161.975	Output kW / Pole	7.5	/ /	8P
BBL type Ref. Installation detai	:1~	MD16L875	Frame size		MJ160	
		Llozordous oros	Applicable standards (latest edition)		ore IC/IEC 4	
Location: indoor/	n (Safe / Hazardous)	Hazardous area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:90	J FLP MOI	tors: IS/IEC 6	00079-
		1000 or less	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)			Vibrations: IS 12075 Noise level: IS 12065			
Hazardous area	dotails		Supply conditions and permissible variations (gr			
	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases	$\frac{u \ suppry}{ }$	Three	
	II OAS (Zolie 1/Zolie 2)	IIA, IIB	Voltage (Volts) and permisible variation	415	±10	)%
Gas group		T5	Frequency (Hz) and permissible variation			
Temp.class		Ex 'd'	Combined variation (absolute sum)	50 ±5% ±10%		
$(\mathbf{EID}/\mathbf{T}_{\mathbf{M}}) \sim  \mathbf{a} /\mathbf{T}_{\mathbf{M}}$	ao 'n')				1070	
Approving author	rity for hazardous area	If Mine application then Do				
Flootniant	otors	else PESO				
Electrical param Starting perform						
Starting perform		DOI	Starting aureant (0/ EL C)		550	
Method of startin	0	DOL CUSTOMED TO EUDNI	Starting current (%FLC)	550		
Load speed (rpm)		CUSTOMER TO FURN		210		
$\frac{\text{Motor GD}^2 \text{ (kgm}^2)}{2}$		0.4	Pull out torque (%FLT)		220	
Load GD <sup>2</sup> (kgm <sup>2</sup>		CUSTOMER TO FURN		30	/	60
Load torque-spee	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)		2/3	
Loud torque spee			provided Load GD2 = Motor GD2		273	
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL A	BOVE			
C		DETAILS				
Running Perform	nance				~ .	~
Efficiency class		-	Duty and designation	(	Continuous (S1)	
Ambient temp./temp.rise by resistance (deg.C)			CDF/Equivalent starts per hour/FI	-		
Enclosure		TEFC (TOTALLY ENCLO	Insulation class / utilisation class on DOL		F/B	
		FAN COOLED)				
Full load current (FLC) amps.		15.6	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)		710	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m		10.3	Stator/rotor time constant (min)		90/122	
•	t FL/0.75FL/0.5FL	86.0 84.0 82	2.0 Power factor at FL/0.75FL/0.5FL	0.78	0.74	0.65
Mechanical para	imeters					
Mounting			B5 Mounting dimensions		Refer GA drawing	
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of mo	otor (kg)	165	Paint shade	632 as per IS 5		
<b></b>			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct/	'flexible/Belt &	Direct	Terminal box location when viewed from DE	A	s per GA drav	wing
Pulley/Gearbox)						
Dimenssions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing		
Bearings (roller/b	arings (roller/ball/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 C		Yes		
Type of lubricatio	on	LITHIUM SOAP BASE GR	LEASE tomainala		3 / DELTA /	6
Accessories						
	rs 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 - si	ingle phase 50z, 230V		Double compression glands (Space			
•			heater/Thermisters/RTDs)			
Thermisters - PTO			Brake (Type/voltage/torque)			
Additional T-Roy	t for Accessories					
Additional namep	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	
<b>Project:</b>	Contractor/Client		Date:	
Consultant	Package			