	Bijlee	Data shee				
Manufacturer	Bharat Bijlee Ltd.		Customer			
Гуре of motor	<b>3 phase Induction Motor</b>		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application CUSTOMER TO		R TO FURNISH	W.O. No. / SAP No.			
Гag no.			Output kW / Pole	15	/	6P
BBL type Ref.		MD18L613	Frame size		MJ180	
Installation detail	ls		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	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 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		T5	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion (ELD/Type 'e'/Type	-	Ex 'd'	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Mine application then DGMS else PESO				
Electrical parame						
Starting performa						
Method of starting		DOL	Starting current (%FLC)	550		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	260		
Motor $GD^2$ (kgm <sup>2</sup> )	)	0.68	Pull out torque (%FLT)		230	
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	12	/	24
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
Starting time at rat	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	ance	DETAILS				
Efficiency class		_	Duty and designation	Continuous (S1)		(S1)
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI			× /
Enclosure		TEFC (TOTALLY ENCLOSED		F/B		
		FAN COOLED)				
Full load current (FLC) amps.		29.0	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		0
Full load speed (rpm)		965	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
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 para	meters	_		I	<b>-</b>	
Mounting		B3	Mounting dimensions	Refer GA drawing		<u> </u>
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		e
Degree of protecti	on	IP 55	Suitable for bidirectional rotation	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			Terminal box	1	~ ~ 5	
0	flexible/Belt &					
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE		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 N		<u> </u>
Bearing size DE/NDE		6310 2Z C3/6310 2Z C3	Earthing provision (one terminal in TB)	Yes		
<u> </u>		LITHIUM SOAP BASE GREASE		3 / DELTA / 6		/ 6
Accessories			tomainala	1		, ,
	s 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			
Space nealers - sn			heater/Thermisters/RTDs)			
•			Brake (Type/voltage/torque)	1		
Thermisters - PTC			Drake (Type/ voltage/ torque)			
Thermisters - PTC Additional T-Box Additional namepl	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	
<b>Project:</b>	Contractor/Client		Date:	
Consultant	Package			