	Dhamat Dillag T 4.		Customar			
Manufacturer	Bharat Bijlee Ltd.		Customer BBL Enquiry reference No			
Гуре of motor Quantity	3 phase Induction Motor		BBL Enquiry reference No Customer P.O.Number			
Application	CUSTOME	R TO FURNISH	W.O. No. / SAP No.			
Fag no.	COSTONIE		Output kW / Pole	18.5	1	8P
BBL type Ref.		MD22S813	Frame size	10.5	, MJ225	
Installation detail	ils		Applicable standards (latest edition)			
	n (Safe / Hazardous)	Hazardous area		FLP Mote	ors: IS/IEC	60079-
		Dimensions: IS 1231/IS 2223/IS:8223				
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area	details		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 ±10%		0%
Temp.class		T5	Frequency (Hz) and permissible variation	50 ±5%		;%
Type of Explosion protection (ELD/Type 'e'/Type 'e')		Ex 'd'	Combined variation (absolute sum)	±10%		
Approving author	rity for hazardous area	If Mine application then DGMS else PESO				
Electrical param Starting perform						
Method of startin		DOL	Starting current (%FLC)	530		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	210		
Motor GD ² (kgm ²	-	1.95	Pull out torque (%FLT)		220	
Load GD ^{2} (kgm ^{2}		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-spee	, 	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	ทสทกอ	DLIAILS				
Efficiency class	παπεε	_	Duty and designation		ontinuous	$\overline{(\mathbf{S}1)}$
✓	mp.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		-	
•		TEFC (TOTALLY ENCLOSED			E/D	
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current	(FLC) amps.	36.6	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		lge
Full load speed (rpm)		725	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		ble
Full load torque (FLT) kg-m		24.9	Stator/rotor time constant (min)	108/146		
✔	t FL/0.75FL/0.5FL	89.0 88.0 87.0	Power factor at FL/0.75FL/0.5FL	0.79	0.77	0.69
Mechanical para	imeters			_		
Mounting		B8	Mounting dimensions	Refer GA drawing		0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		<u>e</u>
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		roof
Net weight of motor (kg)		380	Paint shade	632 as per IS 5		S 5
			Earthing provision (two terminals on stator body)	y) Yes		
Bearings			Terminal box			
Coupling (Direct/ Pulley/Gearbox)	Tlexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)	ulley (OD v width) mm	_	Direction of cable entry	As per GA drawing		
Dimenssions of pulley (OD x width) mm Bearings (roller/ball/angular contact)		- Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MN		
U						
Bearing size DE/		6213 C3/6213 C3 SKF LGMT3- GREASE	Earthing provision (one terminal in TB)	Yes 3 / DELTA / 6		/ 6
Гуре of lubricatic Accessories	Л1	SKE LUNI 13- UKEASE	tomainala		JIDELIA	/ U
	s simplex(w/o controller)		Arrow plate for direction of rotation			
	per bearing(w/o controller)		Double compression glands (main cable)			
			Double compression glands (main cable) Double compression glands (Space			
Space heaters - si	ingle phase 50z, 230V		heater/Thermisters/RTDs)			
Thermisters - PT	С		Brake (Type/voltage/torque)			
	c for Accessories					
Additional name						
Notes:		· · ·		•		

1) All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

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	Deter	
Consultant	Package	Date:	