	Bijlee					
Manufacturer	Bharat Bijlee Ltd.		Customer			
Sype of motor	3 phase Induction Motor		BBL Enquiry reference No Customer P.O.Number			
Quantity Application	CUSTOME	D TO FUDNICH	W.O. No. / SAP No.			
ag no.	CUSTOMER TO FURNISH		Output kW / Pole	1.1 / 2P		
BL type Ref.		MD080233	Frame size	1.1	/ 	
nstallation detail	ils	1110000235	Applicable standards (latest edition)		1413.00	
		Hazardous area		FLP Mot	ors: IS/IEC 6	60079-
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck		Indoor	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)		
-	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10	%
Semp.class		T6	Frequency (Hz) and permissible variation	50	±50	
ype of Explosio	-	Ex 'd'	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Mine application then DGMS else PESO				
Electrical param	eters					
Starting perform						
Method of startin	g	DOL	Starting current (%FLC)	590		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	270		
Aotor GD^2 (kgm	(2)	0.0051	Pull out torque (%FLT)		300	
Load GD^2 (kgm ²		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
			Number of consecutive starts (hot/cold) (nos.)		·	20
Load torque-speed curve		Parabolic TS curve PLEASE FURNISH ALL ABOV	provided Load GD2 = Motor GD2		2/3	
starting time at ra	ated voltage (sec)	DETAILS				
Running Perform	nance	1	I			
Efficiency class		-	Duty and designation	C	ontinuous (S1)
Ambient temp./temp.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.	2.4	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		ge
ull load speed (rpm)		2840	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	s) Not applicable		le
Full load torque (FLT) kg-m		0.38	Stator/rotor time constant (min)		90/122	
Efficiency in % a	t FL/0.75FL/0.5FL	79.0 79.0 76.0	Power factor at FL/0.75FL/0.5FL	0.82	0.75	0.63
Aechanical para	imeters	-				
Iounting		B3	Mounting dimensions	R	efer GA drav	ving
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Aethod of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		oof
	~ ``	` ´ ´				
Net weight of motor (kg)		32	Paint shade	632 as per IS 5		5
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Coupling (Direct/	Tlexible/Belt &	Direct	Terminal box location when viewed from DE	As	per GA drav	wing
Pulley/Gearbox) Dimenssions of p	ulley (OD x width) mm	_ _	Direction of cable entry	As per GA drawing		
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 4 SQ MM		
Bearing size DE/		6204 2Z C3/6204 2Z C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication	on and a second s	LITHIUM SOAP BASE GREAS	$E \begin{bmatrix} 1 & 0 & 1 \\ 1 & 0 & 1 \end{bmatrix}$		3 / STAR / 1	3
ccessories		1		1		
	s 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 - single phase 50z, 230V			Double compression glands (Space heater/Thermisters/RTDs)			
	С		Brake (Type/voltage/torque)			
Thermisters - PTO						
	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	
Project:	Contractor/Client		Date:	
Consultant	Package			