·				
	rat Bijlee Ltd.		Customer	
Type of motor 3 Ph	ase Induction Motor		BBL Enquiry reference No	
Quantity			Customer P.O.Number	
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	
Tag no.			Output kW / pole	9.3 / 4
BBL type tef.		2J16M4C5	Frame size	MJ160
Installation details			Applicable standards (latest edition)	
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors: IS/IEC 6007
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 detai	ls		Supply conditions and permissible variations (gri	id sunnly)
		ZONE I	Number of phases	Three
Area classification GAS (Zone 1/Zone 2)		IIA, IIB	Voltage (Volts) and permisible variation	$415 \pm 10\%$
as group		,		
Temp.class		T5	Frequency (Hz) and permissible variation	50 ±5%
Type of Explosion pro e'/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)	±10%
Approving authority for	or hazardous area	If Coal Mine application then DGMS else PESO		
Electrical parameters Starting performance				
		DOL	Starting ourrant (0/ EI C)	650
Aethod of starting			Starting current (%FLC)	650
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	240
$Aotor GD^2 (kgm^2)$		0.187	Pull out torque (%FLT)	270
Load $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8 / 1
oad torque-speed cu	rve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3
Starting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS		<u> </u>
Dunning Daufaum and		DETAILS		
Running Performanc	<i>e</i>			
fficiency class		IE2	Duty and designation	Continuous (S1)
Ambient temp./temp.r	ise by resistance (deg.C)		CDF/Equivalent starts per hour/FI	
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B
Full load current (FLC	C) amps.	17.6	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage
Full load speed (rpm)	· • • • •	1465	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable
Full load torque (FLT)) kg-m	6.18	Stator/rotor time constant (min)	90/122
Efficiency in % at FL/	0	89.4 89.4 87.0	Power factor at FL/0.75FL/0.5FL	0.82 0.76 0.
Aechanical paramete				
Mounting		B5	Mounting dimensions	Refer GA drawin
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise
		č i		
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes
Aethod of cooling (Tl ooled/TESC)	EFC/torced	TEFC (IC 411)	Paint type	Acid Alkali Proof
Net weight of motor (kgs.)	148	Paint shade	632 as per IS 5
			Earthing provision (two terminals on stator body)	Yes
Bearings		<u> </u>	Terminal box	
Coupling (Direct/flexi	ble/Belt &			
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawin
Dimensions of pulley (OD x width) mm		_	Direction of cable entry	As per GA drawin
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 35 SQ N
Bearing size DE/NDE		6209 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)	Yes
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6
ccessories				
	nplex (w/o controller)		Arrow plate for direction of rotation	
			Double compression glands (main cable)	
BTDs - 1 number per bearing (w/o controller) Space heaters - single phase 50z, 230V			Double compression glands (Space	
$ O^{-1}$			heater/thermisters/RTDs)	<u> </u>
			Brake (Type/voltage/torque)	1
Thermisters - PTC, 1			Druke (Type/ voltage/ torque)	
Thermisters - PTC, 1 Additional T-Box for Additional nameplate			Druke (Type/ voltage/ torque)	

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	Date:	
Consultant	Package		