Bharat Bijlee			for motors			
Manufacturer Bha	arat Bijlee Ltd.		Customer			
Type of motor 3 Pl	hase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
ag no.			Output kW / pole	5.5	/	6P
BL type tef.		2J13M6T5	Frame size		MJ132	
nstallation details			Applicable standards (latest edition)	1		
rea classification (S	afe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	ors: IS/IEC $\epsilon$	50079-1
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
lazardous area deta	uils		Supply conditions and permissible variations (gri	id supply)	)	
Area classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases		Three	
las group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
emp.class		T5	Frequency (Hz) and permissible variation	50	±:	5%
Type of Explosion protection (FLP/Type e'/Type 'n')		Ex d	Combined variation (absolute sum)		±10%	
pproving authority f	for hazardous area	If Coal Mine application then				
loctrical narameter	•C	DGMS else PESO				
Electrical parameter						
tarting performance	Ľ	ΓΟΙ	Starting aurrant (0/ EL C)		550	
Method of starting		DOL CUSTOMED TO EUDNISH	Starting current (%FLC) Starting torque (% FLT)		550	
Load speed (rpm) $(2 - 2)$		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
$\frac{1 \text{ otor } \text{GD}^2 \text{ (kgm}^2)}{2}$		0.1518	Pull out torque (%FLT)		250	
oad GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15		30
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performan	ce					
Efficiency class		IE2	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 FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current (FLC	C) amps.	11.6	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)	, <b>L</b>	960	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	0
Full load torque (FLT		5.58	Stator/rotor time constant (min)		90/122	
Efficiency in % at FL		86.0 86.0 85.0	Power factor at FL/0.75FL/0.5FL	0.77	0.71	0.60
lechanical paramet						
Aounting		B5	Mounting dimensions	Re	efer GA dra	wing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		<u> </u>
egree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling (T						
ooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor (kgs.)		125	Paint shade	(	532 as per I	[S 5
			Earthing provision (two terminals on stator body)	Yes		
earings			Terminal box	•		
Coupling (Direct/flex	ible/Belt &	Direct	Tominal how loostion when sime 1 from DD	<b>A</b>		
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
imensions of pulley (OD x width) mm		-	Direction of cable entry	As	per GA dra	awing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	1R X	X 3C X 16 S	SQ MM
Bearing size DE/NDI	E	6208 2Z C3 / 6208 2Z C3	Earthing provision (one terminal in TB)		Yes	
			No of phases/Winding connection/number of			
ype of lubrication		LITHIUM SOAP BASE GREASE	terminals		3 / DELTA	/ 6
	mplex (w/o controller)		Arrow plate for direction of rotation			
			Arrow plate for direction of rotation			
$TD_{2}$ 11	bearing (w/o controller)		Double compression glands (main cable)			
TDs - 1 number per			Double compression glands (Space			
Space heaters - single	•		heater/thermisters/RTDs)			
Space heaters - single Thermisters - PTC , 1	l number per phase		heater/thermisters/RTDs) Brake (Type/voltage/torque)			
pace heaters - single	l number per phase					

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	Date.	