Bharat Bijlee			for motors			
Manufacturer Bharat Bijlee Ltd.			Customer			
J	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	100		
ag no.		012114022	Output kW / pole	132	/	2P
BL type tef. <i>istallation details</i>	~	2J31M233	Frame size		MJ315	
	5		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)			Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC	60079-1
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
ltitude (meters)		1000 or less	Vibrations: IS 12075			
, , , , , ,	, • 1		Noise level: IS 12065		<u>\</u>	
lazardous area de			Supply conditions and permissible variations (grid	l supply		
	GAS (Zone 1/Zone 2)	ZONE I	Number of phases	415	Three	00/
as group		IIA, IIB	Voltage (Volts) and permisible variation	415		10%
emp.class		T4	Frequency (Hz) and permissible variation	50	±.	5%
ype of Explosion '/Type 'n')	protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
pproving authority for hazardous area		If Coal Mine application then DGMS else PESO				
lectrical parameter						
tarting performa			\mathbf{C} to atting \mathbf{C} over \mathbf{C} (0/ \mathbf{C} (\mathbf{C})		700	
Method of starting		DOL CUSTOMED TO EUDNISU	Starting current (%FLC)		700	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
1000000000000000000000000000000000000		5	Pull out torque (%FLT)		250	
oad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-speed	curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rate	ed voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Sunning Perform	ance					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
~	p.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI	(D1) 		
nclosure	<u>pinse of resistance (acg.c)</u>	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current (F	T C) amps	216	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		200
full load speed (rp	/ 1	2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	0
ull load torque (F	,	43.1	Stator/rotor time constant (min)		120/162	
	FL/0.75FL/0.5FL	94.6 93.6 91.3	Power factor at FL/0.75FL/0.5FL	0.90	0.86	0.80
<i>Techanical paran</i>		עדיע איז		0.70	0.00	0.00
Iounting		B8	Mounting dimensions	R	efer GA dra	awing
aft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protection	on	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling			Paint type	Acid Alkali Proof		
poled/TESC)	(1 ,)					
Net weight of motor (kgs.)		1050	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
earings	-11 - 12		Terminal box			
Coupling (Direct/flexible/Belt &		Direct	Terminal box location when viewed from DE	As per GA drawing		
ulley/Gearbox)	lley (OD x width) mm		Direction of cable entry			
X	ll/angular contact)	- Ball /Ball	Cable size and type(Aluminium)	As per GA drawing 2R X 3C X 185 SQ MM		
Bearing size DE/N		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
C			No of phases/Winding connection/number of			
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6		
	• • • •					
ccessories			Arrow plate for direction of rotation			
Accessories ATDs - 3 numbers	simplex (w/o controller)		(Develop a supervision alongle (main ashla)			
<i>ccessories</i> TDs - 3 numbers	simplex (w/o controller) per bearing (w/o controller)		Double compression glands (main cable)			
Accessories RTDs - 3 numbers BTDs - 1 number p			Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)			
Accessories ATDs - 3 numbers BTDs - 1 number p Space heaters - sin	per bearing (w/o controller)		Double compression glands (Space			
Accessories ATDs - 3 numbers BTDs - 1 number p Space heaters - sin	per bearing (w/o controller) gle phase 50z, 230V , 1 number per phase		Double compression glands (Space heater/thermisters/RTDs)			

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"

		Dramanad hav	
		Prepared by	
		Approved by	
		Revison	
Project:	Contractor/Client	Data	
Consultant	Package	Date:	