I						
Manufacturer Bharat Bijlee Ltd.			Customer			
J	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.	100		
ag no.			Output kW / pole	132	/	2P
BL type tef. <i>istallation details</i>		2J31M233	Frame size Applicable standards (latest edition)		MJ315	
			Applicable standards (latest edition)			
Area classification (Safe / Hazardous)			Performance: IS/IEC 60034-1 Maintenance IS:900 F	FLP Moto	ors: IS/IEC 6	50079-1
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
ltitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
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		0%
emp.class		T4	Frequency (Hz) and permissible variation	50	±:	5%
ype of Explosion <u> </u> '/Type 'n')	protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
pproving authority	y for hazardous area	If Coal Mine application then DGMS else PESO				
lectrical paramet						
tarting performan	ıce					
Iethod of starting		DOL CUSTOMED TO FUDNISU	Starting current (%FLC)		700	
oad 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				
Running Performa	Ince	DETTILD				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
~	p.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI	(D1)		
nclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current (F	IC) amps	216	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
full load speed (rpr	/ L	2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
full load torque (FL	,	43.1	Stator/rotor time constant (min)	1	120/162	
fficiency in % at F			Power factor at FL/0.75FL/0.5FL	0.90	0.86	0.80
<i>lechanical param</i>				0.70	0.00	0.00
Iounting		B3	Mounting dimensions	Re	efer GA dra	awing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protection	n	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling (Paint type	Yes Acid Alkali Proof		
poled/TESC)		``´´				
Net weight of motor (kgs.)		1050	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
earings	$a = \frac{1}{2} \int \mathbf{D} = $		Terminal box			
coupling (Direct/fle	exible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
ulley/Gearbox)	ley (OD x width) mm	_	Direction of cable entry			
earings (roller/ball		- Ball /Ball	Cable size and type(Aluminium)	As per GA drawing 2R X 3C X 185 SQ MM		
earing size DE/NI		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
		LING NO CDEAGE	No of phases/Winding connection/number of	~		16
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6		
ccessories	• • • •					
	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)			
hermisters - PTC,	, 1 number per phase		Brake (Type/voltage/torque)			
	or Accessories					
Additional namepla						

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"

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