	e	Data sheet				
Manufacturer Bharat Bijlee Ltd.			Customer			
	B Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	100	,	
lag no.			Output kW / pole	132	/	2P
BL type tef.	-	2J31M235	Frame size		MJ315	
nstallation detail	ls		Applicable standards (latest edition)			
	n (Safe / Hazardous)		Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 6	50079-1
ocation: 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 a			Supply conditions and permissible variations (grid	l supply		
	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	0.04
as group		IIA, IIB	Voltage (Volts) and permisible variation	415		0%
emp.class		T4	Frequency (Hz) and permissible variation	50	±5	5%
ype of Explosion '/Type 'n')	n protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
Electrical parame		1				
tarting performa						
Method of starting		DOL	Starting current (%FLC)		700	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
lotor GD ² (kgm ²	2)	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	d curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rat	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	DETAILS				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
•	mp.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI		_	(~ -)
Inclosure	<u> </u>	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
full load current (FI C) amps	216	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
full load speed (r		2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
full load torque (F		43.1	Stator/rotor time constant (min)		120/162	
A ``_	FL/0.75FL/0.5FL		Power factor at FL/0.75FL/0.5FL	0.90	0.86	0.80
<i>lechanical para</i>		94.0 95.0 91.5		0.90	0.00	0.80
Iounting		B5	Mounting dimensions	R	efer GA dra	wing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protecti	ion	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling						
ooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		
et weight of motor (kgs.)		1050	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
earings		•	Terminal box			
Coupling (Direct/f	flexible/Belt &	Direct		A		01111-
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
Dimenssions of pu	ulley (OD x width) mm		Direction of cable entry		As per GA drawing	
earings (roller/ba	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earing size DE/N	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of	3 / DELTA / 6		
•	11	UIIITA-INJ - UKEAJE	terminals			. / U
ccessories		I	T			
	s simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing (w/o controller)			Double compression glands (main cable)			
	ngle phase 50z. 230V		Double compression glands (Space heater/thermisters/RTDs)			
pace heaters - sir			(neater/mermisters/KTDS)			
•	C, 1 number per phase		Brake (Type/voltage/torque)			
•	C, 1 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"

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