Bharat Bijlee		Data sheet					
Manufacturer Bharat Bijlee Ltd.			Customer				
Fype of motor 3 P	hase Induction Motor		BBL Enquiry reference No				
Quantity			Customer P.O.Number				
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.				
lag no.			Output kW / pole	125	/	2P	
BL type tef.		2J31M2A3	Frame size		MJ315		
nstallation details		Γ	Applicable standards (latest edition)				
Area classification (S	Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 6	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	ails		Supply conditions and permissible variations (grid	l supply)		
rea classification G	AS (Zone 1/Zone 2)	ZONE I	Number of phases		Three		
as group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%	
emp.class		Τ4	Frequency (Hz) and permissible variation	50	±5	5%	
ype of Explosion pr '/Type 'n')	rotection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%		
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO					
Slectrical parameter	rs						
tarting performance							
Iethod of starting	~	DOL	Starting current (%FLC)		700		
oad speed (rpm)		CUSTOMER TO FURNISH	Starting current (%FLC) Starting torque (%FLT)		220		
		5	Pull out torque (%FLT)				
$\frac{\text{fotor GD}^2 \text{ (kgm}^2)}{1 \text{ GD}^2 \text{ (kgm}^2)}$				1 5	260	20	
bad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30	
bad torque-speed cu	urve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)provided Load GD2 = Motor GD2		2/3		
arting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS					
unning Performan	ice						
Efficiency class		IE2	Duty and designation	Continuous (S1)			
mbient temp./temp.	rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		-		
nclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B			
ull load current (FL	C) amps.	207	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage			
ull load speed (rpm)		2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable			
ull load torque (FL)	, 	40.8	Stator/rotor time constant (min)		120/162		
fficiency in % at FL		94.5 93.5 91.5	Power factor at FL/0.75FL/0.5FL	0.89	0.85	0.78	
lechanical parame		74.5 75.5 71.5	Tower factor at TE/0.751E/0.51E	0.07	0.05	0.70	
Iounting		B8	Mounting dimensions	R	efer GA dra	wing	
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise			
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes			
lethod of cooling (7							
cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof			
Net weight of motor (kgs.)		1050	Paint shade	632 as per IS 5			
			Earthing provision (two terminals on stator body)		Yes		
earings			Terminal box				
oupling (Direct/flex	kible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing			
Pulley/Gearbox) Dimenssions of pulley (OD x width) mm			Direction of cable entry	As per GA drawing			
earings (roller/ball/		- Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM			
earing size DE/ND	č	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	2K X SC X 185 SQ MIN Yes			
0			No of phases/Winding connection/number of				
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6			
ccessories	.						
	mplex (w/o controller)		Arrow plate for direction of rotation				
$TD_{S} = 1$ number net	r bearing (w/o controller)		Double compression glands (main cable)				
1Ds - 1 humber per			Double compression glands (Space				
pace heaters - single	e phase 50z, $230V$		heater/thermisters/RTDs)				
pace heaters - single	e phase 50z, 230V 1 number per phase		heater/thermisters/RTDs)Brake (Type/voltage/torque)				
pace heaters - single	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"

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