Manufacturer Bharat Bijlee Ltd.			Customer			
<b>Type of motor 3</b>	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.			
lag no.			Output kW / pole	125	/	2P
BL type tef.		2J31M2A5	Frame size		MJ315	
nstallation details			Applicable standards (latest edition)			
Area classification	(Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mote	ors: IS/IEC 6	0079-1
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 de			Supply conditions and permissible variations (grid	l supply		
rea classification	GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
as group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
emp.class		T4	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion protection (FLP/Type e'/Type 'n')		Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
Electrical paramet	ters					
tarting performan	nce					
Iethod of starting		DOL	Starting current (%FLC)		700	
oad speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	220		
fotor $GD^2$ (kgm <sup>2</sup> )		5	Pull out torque (%FLT)		260	
oad GD <sup>2</sup> (kgm <sup>2</sup> )		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	1			
unning Performa	nre	DETAILS				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
~	p.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI			
nclosure	p.nse by resistance (deg.e)	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current (F	I C) amps	207	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
· ·		2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
ull load speed (rpr	,					
ull load torque (FI		40.8	Stator/rotor time constant (min)	0.80	120/162	
fficiency in % at F <i>lechanical param</i>		94.5 93.5 91.5	Power factor at FL/0.75FL/0.5FL	0.89	0.85	0.78
Iounting		B5	Mounting dimensions	R	ofor GA dra	wing
5		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing Clockwise		
haft extention		<b>č i</b>				
egree of protectio Iethod of cooling (		IP 55	Suitable for bidirectional rotation	Yes		
poled/TESC)		TEFC (IC 411)	Paint type	Acid Alk		roof
Net weight of motor (kgs.)		1050	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
Searings			Terminal box			
Coupling (Direct/fle Pulley/Gearbox)	exible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
	ley (OD x width) mm	_	Direction of cable entry	As per GA drawing		
Bearings (roller/bal		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earing size DE/NI	DE	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		
ccessories			terminals			
	simplex (w/o controller)		Arrow plate for direction of rotation			
			Double compression glands (main cable)			
BTDs - 1 number per bearing (w/o controller) Space heaters - single phase 50z, 230V			Double compression glands (Space			
Thermisters - PTC, 1 number per phase			heater/thermisters/RTDs)Brake (Type/voltage/torque)			
dditional T-Box fo	or Accessories					
voontionat namenta	แป					
otes:						

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:	