e						
Manufacturer Bharat Bijlee Ltd.			Customer			
<b>Type of motor</b> 3	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
ag no.			Output kW / pole	125	/	4P
BL type tef.		2J31M4A3	Frame size		MJ315	
nstallation details	8		Applicable standards (latest edition)			
Area classification	(Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 60	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 d		Τ	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	±10	)%
emp.class		T4	Frequency (Hz) and permissible variation	50	±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				
Slectrical parame	ters					
tarting performa						
Iethod of starting		DOL	Starting current (%FLC)		650	
Load speed (rpm)			Starting torque (%FLT)		250	
$\frac{1}{1000 \text{ GD}^2 (\text{kgm}^2)}$	)	11.7	Pull out torque (%FLT)		300	
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.)	13	2/3	30
			provided Load GD2 = Motor GD2			
tarting time at rat	ed voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
unning Perform	ance					
fficiency class		IE2	Duty and designation	Continuous (S1)		S1)
mbient temp./tem	np.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 (H	FLC) amps.	216	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
ull load speed (rp	om)	1486	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applicat	ole
ull load torque (F	,	81.9	Stator/rotor time constant (min)		120/162	
	FL/0.75FL/0.5FL	94.6 94.3 92.7	Power factor at FL/0.75FL/0.5FL	0.85	0.81	0.74
Iechanical paran	neters					
Iounting		B3	Mounting dimensions	R	efer GA drav	wing
bhaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protection	on	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling coled/TESC)	(TEFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor (kgs.)		1045	Paint shade	632 as per IS 5		
ter weight of mot	JI (K <u>6</u> 5.)	1045	Earthing provision (two terminals on stator body)	Yes		
earings			<i>Terminal box</i>			
oupling (Direct/f	lexible/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		
<b>A</b>		Dol1 /Dol1				
earings (roller/ba earing size DE/N	ll/angular contact)	Ball /Ball 6319 C3 / 6319 C3	Cable size and type(Aluminium)Earthing provision (one terminal in TB)	2R X 3C X 185 SQ MM Yes		
			No of phases/Winding connection/number of			
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6		
<i>ccessories</i>						
	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)			
•			Brake (Type/voltage/torque)			

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:	