Manufacturer Bharat Bijlee Ltd.			Customer			
Гуре of motor 3 Pl	hase 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	132	/	6P
BBL type tef.		2J31L675	Frame size		MJ315	
nstallation details			Applicable standards (latest edition)			
Area classification (S	afe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	rs: IS/IEC 6	0079-1
ocation: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Iazardous area deta	uls		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()%
emp.class		T4	Frequency (Hz) and permissible variation	50	±5	%
ype of Explosion pro/ //Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
Electrical parameter	·s					
tarting performance						
Aethod of starting		DOL	Starting current (%FLC)		600	
oad speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	230		
$\frac{1}{10000000000000000000000000000000000$		18	Pull out torque (%FLT)	250		
		CUSTOMER TO FURNISH		15	/	20
oad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-speed cu	irve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
unning Performan	ce					
fficiency 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		
full load current (FLC	C) amps.	231	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
ull load speed (rpm)		990	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
ull load torque (FLT		130	Stator/rotor time constant (min)		144/194	
fficiency in % at FL	/0.75FL/0.5FL	94.6 94.6 93.8	Power factor at FL/0.75FL/0.5FL	0.84	0.81	0.74
Iechanical paramet	ters					
Iounting		B5	Mounting dimensions	Re	fer GA drav	wing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling (T ooled/TESC)	TEFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor (kgs.)		1425	Paint shade	632 as per IS 5		
tet weight of motor (kgs.)		1125	Earthing provision (two terminals on stator body)	Yes		
earings			Terminal box		~~0	
Coupling (Direct/flex	ible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
ulley/Gearbox)	y (OD x width) mm	_	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/a		- Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earing size DE/NDI	E	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
ccessories						
TDs - 3 numbers sin	mplex (w/o controller)		Arrow plate for direction of rotation			
TDs - 1 number per	bearing (w/o controller)		Double compression glands (main cable)			
pace heaters - single			Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PTC, 1			Brake (Type/voltage/torque)			
Additional T-Box for						
Additional nameplate						

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:	