Manufacturer Bharat Bijlee Ltd.			Customer			
	B Phase Induction Motor		BBL Enquiry reference No			
Quantity Application	CIETONA	TO FUDNICU	Customer P.O.Number W O. No. / SAP No.			
Application	CUSIOMI	ER TO FURNISH	W.O. No. / SAP No.	55	1	6P
Tag no. BBL type tef.		2J28M633	Output kW / pole Frame size	<i>JJ</i>	/ MJ280	
nstallation detail	16	2J201V10JJ	Applicable standards (latest edition)		1112200	
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	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			
Hazardous area d	letails		Supply conditions and permissible variations (gria	l supply)	
Area classification	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Bas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
Semp.class		T4	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion e'/Type 'n')	n protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
pproving authori	ity for hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parame	eters					
Starting performa						
Aethod of starting		DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	220		
$A otor GD^2 (kgm^2)$	2)	6.18	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					
fficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./ter	np.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		-	
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.	96.7	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
full load speed (rp	pm)	983	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	ble
Full load torque (F	FLT) kg-m	54.5	Stator/rotor time constant (min)		144/194	
Efficiency in % at	FL/0.75FL/0.5FL	93.1 93.1 92.8	Power factor at FL/0.75FL/0.5FL	0.85	0.82	0.75
Iechanical parai	meters					
Iounting		B8	Mounting dimensions	R	efer GA dra	<u> </u>
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protecti		IP 55	Suitable for bidirectional rotation	Yes		
Aethod of cooling	g (TEFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
ooled/TESC)		```'				
let weight of mot	tor (kgs.)	686	Paint shade	632 as per IS 5		
Convince			Earthing provision (two terminals on stator body)		Yes	
Bearings	flavible/Ralt &		Terminal box			
Coupling (Direct/f Pulley/Gearbox)	IICAIUIC/ DEIL &	Direct	Terminal box location when viewed from DE	As per GA drawing		
✔ /	alley (OD x width) mm	_	Direction of cable entry	As per GA drawing		
L. L		- Ball /Ball				
Bearings (roller/ba	all/angular contact) NDE	6317 C3 / 6316 C3	Cable size and type(Aluminium)Earthing provision (one terminal in TB)	2R X 3C X 120 SQ MM Yes		
C			No of phases/Winding connection/number of			
Type of lubrication		SKF LGMT3- GREASE	terminals	3 / DELTA / 6		
ccessories						
	s simplex (w/o controller)		Arrow plate for direction of rotation			
	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	C, 1 number per phase					
Additional T-Box	for Accessories					
Thermisters - PTC Additional T-Box Additional namepl			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"

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