	Bijlee	Duiu sneer	t for motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No		
Quantity			Customer P.O.Number		
		ER TO FURNISH	W.O. No. / SAP No.		
Гag no.			Output kW / pole	55 /	6P
BBL type tef. Installation details			Frame size	280	OM
installation deta	uus		Applicable standards (latest edition)		
Area classification (Safe / Hazardous)		Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900		
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	details		Supply conditions and permissible variations (grid	l supply)	
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Th	ree
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%	
Temp.class		N.A.	Frequency (Hz) and permissible variation	50	±5%
Type of Explosion protection (FLP/Type		N.A.	Combined variation (absolute sum)	±10	)%
'e'/Type 'n')			combined variation (absolute sum)		570
Approving autho	rity for hazardous area	Not Applicable			
		TT			
Electrical param					
Starting perform		DOL	Starting current (% ELC)	<i></i>	0
Method of starting		CUSTOMER TO FURNISH	Starting current (%FLC) Starting torque (%FLT)	600	
Load speed (rpm)		6.18	Pull out torque (%FLT)	220	
Motor GD <sup>2</sup> (kgm <sup>2</sup> )		6.18 CUSTOMER TO FURNISH		-	-
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30	
Load torque-spee	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	2 / 3	
- •		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2	1	
Starting time at r	rated voltage (sec)	DETAILS			
Running Perfor	mance	DETTILS			
Efficiency class	munee	IE2	Duty and designation	Continuo	ous (S1)
	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-	
•	1	TEFC (TOTALLY ENCLOSED	· · ·		
Enclosure		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 (rpm)		983	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (FLT) kg-m		54.5	Stator/rotor time constant (min)	144/194	
2	tt 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
Mechanical para	ameters	70		<b>D</b> ( <b>C</b> )	
Mounting		B8 Sincle ratio drivel	Mounting dimensions	Refer GA Clock	0
Shaft extention	tion	Single cylindrical IP 55	Direction of rotation viewed from DE Suitable for bidirectional rotation		
Degree of protection				Yes	
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic	
Net weight of motor (kgs.)		640	Paint shade	RAL 5000	
	(		Earthing provision (two terminals on stator body)		es
Bearings			Terminal box	1	
Coupling (Direct	/flexible/Belt &	Diment		A	
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing	
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing	
Bearings (roller/h	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MM	
e .	<u> </u>				
Bearing size DE/	NDE	6317 C3 / 6316 C3	Earthing provision (one terminal in TB)	Yes	
Type of lubrication		SKF LGMT3- GREASE	No of phases/Winding connection/number of	3 / DELTA / 6	
			terminals		
Accessories	re simpley (w/a contration)		Arrow plate for direction of notation		
	rs simplex (w/o controller)		Arrow plate for direction of rotation		
BTDs - 1 number per bearing (w/o controller)			Double compression glands (main cable) Double compression glands (Space		
Space heaters - single phase 50z, 230V			heater/thermisters/RTDs)		
Thermisters - PT	C, 1 number per phase		Brake (Type/voltage/torque)		
	x for Accessories		· · · · · · · · · · · · · · · · · · ·		
Additional name	plate				
Notes:					
· •	5	0034-1 tolerances, unless otherwise s	•		
	-	ted frequency condition and for DOL	starting condition.		
	Load GD <sup>2</sup> assumed wherever no				
, 0		provision of heavy duty relays is man	datory.		
-	g is mandatory and HP is approx	ximate.			
<ol><li>Accessories pr</li></ol>	rovided are marked as "YES"				
				[	
				Prepared by	
				Approved by	
				Revison	

Project:		Contractor/Client		Date:	
Consultant		Package			