	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			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
Tag no.			Output kW / pole	180	1	4P
BBL type tef.			Frame size	100	, 315L	
Installation deta	uils		Applicable standards (latest edition)	1		
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 classificatio	on GAS (Zone 1/Zone 2)	N.A.	Number of phases		Three	e
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%		±10%
Temp.class		N.A.	Frequency (Hz) and permissible variation	50		±5%
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)		±10%	ó
Approving authority for hazardous area		Not Applicable				
Electrical paran	neters					
Starting perform		DOI				
Method of startin	0	DOL	Starting current (%FLC)		650	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)	250		
Motor GD ² (kgm ²)		15.6	Pull out torque (%FLT)		300	
Load GD ² (kgm ²))	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-spec		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	3
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE		1		
č		DETAILS				
Running Perform	mance	IEO		C		- (61)
Efficiency class		IE2	Duty and designation	Ca	ontinuou	s (SI)
Ambient temp./temp.rise by resistance (deg.C)		50 / 70 TEFC (TOTALLY ENCLOSED	CDF/Equivalent starts per hour/FI	- F/B		
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL		r/B	
Full load current	(FLC) amps.	307	Rotor type (Squirrel Cage/ Slip ring)		Squirrel (Cage
Full load speed (rpm)		1487	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque	(FLT) kg-m	118	Stator/rotor time constant (min)		144/19	94
-	at FL/0.75FL/0.5FL	95.0 94.7 93.2	Power factor at FL/0.75FL/0.5FL	0.86	0.83	0.76
Mechanical par	ameters					
Mounting		B8	Mounting dimensions	Re	fer GA d	U
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	
Degree of protec	tion	IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic		
N		1005		-		
Net weight of mo	otor (kgs.)	1225	Paint shade	RAL 5000		
Doguis			Earthing provision (two terminals on stator body)		Yes	
Bearings	flavible/Date 9		Terminal box			
Coupling (Direct	/nexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)	pulley (OD x width) mm		Direction of cable entry			
CHICHSSIONS OF	puncy (OD X within) IIIII	-	Direction of cable entry	As per GA drawing		nawillg
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 240 SQ M		0 SQ MI
Bearing size DE/	/NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)		Yes	
0			No of phases/Winding connection/number of			
Type of lubricati	on	Unirex-N3 - GREASE	terminals	3	/ DELT	A / 6
Accessories						
RTDs - 3 numbe	ers simplex (w/o controller)		Arrow plate for direction of rotation		_	
BTDs - 1 numbe	r per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - s	ingle phase 50z, 230V		Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PTC, 1 number per phase			Brake (Type/voltage/torque)			
Additional T-Box for Accessories						
Additional name	plate					
Notes:				-		
1)All performance	ce values are subject to IS/IEC 6	0034-1 tolerances, unless otherwise s	specified.			
2)Performance v	alues are at rated voltage and ra	ted frequency condition and for DOL	starting condition.			
	Load GD ² assumed wherever no					
		provision of heavy duty relays is man	datory.			
	g is mandatory and HP is approx	ximate.				
6) Accessories pr	rovided are marked as "YES"					
`						
				Prepared	hv	
				rendered	υγ	
				Approved		
Projects		Contractor/Client				

Project:	Contractor/Client	Da	Date:	
Consultant	Package	Da	ale.	