Manufacturer	lijlee	Data sheet	i jor motors		
	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	180 /	2P
BBL type tef.			Frame size	31	5L
nstallation detai	ils		Applicable standards (latest edition)	I	
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		
		<u> </u>	Noise level: IS 12065		
Hazardous area a		N 4	Supply conditions and permissible variations (grid		
	n GAS (Zone 1/Zone 2)	N.A.	Number of phases		ree
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%	
Femp.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)	±1	0%
Approving author	rity for hazardous area	Not Applicable			
Electrical param	eters				
Starting perform					
Method of starting		DOL	Starting current (%FLC)	70	00
Load speed (rpm)	0	CUSTOMER TO FURNISH	Starting torque (%FLT)	20	00
Motor $GD^2$ (kgm <sup>2</sup>		7.7	Pull out torque (%FLT)	25	50
Load GD <sup>2</sup> (kgm <sup>2</sup> )	)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 /	30
			Number of consecutive starts (hot/cold) (sec)		
Load torque-speed	d curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load $GD2 = Motor GD2$	2	/ 3
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE DETAILS		<u></u>	
Running Perform	nance	DLIMES			
Efficiency class		IE2	Duty and designation	Continuous (S1)	
	mp.rise by resistance (deg.C)	50 / 70	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.		300	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (rpm)		2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (I		58.8	Stator/rotor time constant (min)		/194
	t FL/0.75FL/0.5FL	94.9 94.1 93.0	Power factor at FL/0.75FL/0.5FL	0.88 0.82	0.75
Mounting	meters	B5	Mounting dimensions	Pafar GA	drawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		kwise
Degree of protecti	ion	IP 55	Suitable for bidirectional rotation		es
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Deint temp		
	,	×	Paint type	Acrylic	
Net weight of mot	tor (kgs.)	1390	Paint shade	RAL 5000	
Bearings			Earthing provision (two terminals on stator body) Terminal box	Y	es
Coupling (Direct/I	flexible/Belt &				
Pulley/Gearbox)	in in poir a	Direct	Terminal box location when viewed from DE	As per GA drawing	
Dimensions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing	
•		D-11/D-11	· ·		
searings (roller/ba	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 1	240 SQ M
Bearing size DE/N	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Y	es
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of	3 / DELTA / 6	
		CIMENTIS GREADE	terminals	57 DE	, 0
Accessories					
	rs simplex (w/o controller)		Arrow plate for direction of rotation		
3TDs - 1 number	r per bearing (w/o controller)		Double compression glands (main cable)		
Space heaters - si	ngle phase 50z, 230V		Double compression glands (Space		
Chermisters DTC	C, 1 number per phase		heater/thermisters/RTDs) Brake (Type/yoltage/torque)		
Additional T-Box			Brake (Type/voltage/torque)		
Additional namep					
Notes:		L	1	1	
	e values are subject to IS/IFC 6	50034-1 tolerances, unless otherwise s	specified.		
All performance		ated frequency condition and for DOL			
	load GD <sup>2</sup> assumed wherever no		<u> </u>		
2)Performance va		provision of heavy duty relays is man	idatory.		
2)Performance val 3)Motor $GD^2 = Le$	is more than it soconds,				
2)Performance va 3)Motor $GD^2 = Lo$ 4)Where starting	is mandatory and HD is approx				
2)Performance va 3)Motor GD <sup>2</sup> = Lo 4)Where starting t 5)Kilowatt rating	is mandatory and HP is approx	xillate.			
2)Performance va 3)Motor GD <sup>2</sup> = Lo 4)Where starting t 5)Kilowatt rating	is mandatory and HP is appro- ovided are marked as "YES"				
2)Performance va 3)Motor GD <sup>2</sup> = Lo 4)Where starting t 5)Kilowatt rating					
)Performance va )Motor GD <sup>2</sup> = Le )Where starting )Kilowatt rating		Annae.			
)Performance va )Motor GD <sup>2</sup> = Lo )Where starting )Kilowatt rating				Prepared by	
2)Performance va 3)Motor GD <sup>2</sup> = Le 4)Where starting to 5)Kilowatt rating		Amac		Prepared by Approved by	

Project:		Contractor/Client		Date:	
Consultant		Package			