Aanufacturer		Data sheet	-		
Tanulacturer	Bharat Bijlee Ltd.		Customer		
Type of motor 3 Phase Induction Motor			BBL Enquiry reference No		
Quantity			Customer P.O.Number		
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.		
lag no.			Output kW / pole	110 / 2P	
BBL type tef.	, ila		Frame size Applicable standards (latest edition)	315S	
nstatiation aeta	uus		Applicable standards (talest edition)		
Area classification (Safe / Hazardous)		Industrial safe area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:900 Dimensions: IS 1231/IS 2223/IS:8223		
Location: indoor/outdoor/deck Altitude (meters)		1000 or less	Vibrations: IS 12075 Noise level: IS 12065		
Hazardous area	details	ŀ	Supply conditions and permissible variations (grid	l supply)	
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three	
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 'e'/Type 'n')		N.A.	Combined variation (absolute sum)	±10%	
Approving autho	prity for hazardous area	Not Applicable			
Electrical paran Starting perforn	nance				
Method of startir	0	DOL	Starting current (%FLC)	700	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)	220	
Motor GD <sup>2</sup> (kgm	/	5	Pull out torque (%FLT)	250	
Load GD <sup>2</sup> (kgm <sup>2</sup> )	)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30	
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3	
0	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS			
Running Perform	mance				
Efficiency class		IE2	Duty and designation	Continuous (S1)	
Ambient temp./temp.rise by resistance (deg.C) Enclosure		50 / 70 TEFC (TOTALLY ENCLOSED	CDF/Equivalent starts per hour/FI Insulation class / utilisation class on DOL	- F/B	
	( <b>T</b> , 0)	FAN COOLED)			
Full load current (FLC) amps. Full load speed (rpm)		180 2982	Rotor type (Squirrel Cage/ Slip ring ) Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Squirrel Cage Not applicable	
Full load torque (FLT) kg-m		35.9	Stator/rotor time constant (min)	108/146	
	at FL/0.75FL/0.5FL	94.3 94.1 91.5	Power factor at FL/0.75FL/0.5FL	0.90 0.86 0.8	
Mechanical para Mounting	ameters	B8	Mounting dimensions	Refer GA drawing	
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise	
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes	
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic	
Net weight of motor (kgs.)		898	Paint shade Earthing provision (two terminals on stator body)	RAL 5000 Yes	
Bearings			Terminal box		
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing	
Dimenssions of p	pulley (OD x width) mm	-	Direction of cable entry	As per GA drawing	
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM	
Bearing size DE/NDE		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	
Accessories	• • • • •	T			
	ers simplex (w/o controller)		Arrow plate for direction of rotation		
	er per bearing (w/o controller) single phase 50z, 230V		Double compression glands (main cable) Double compression glands (Space		
Thermisters - PTC , 1 number per phase			heater/thermisters/RTDs) Brake (Type/voltage/torque)		
Additional T-Box for Accessories Additional nameplate					
uunuonai name		50034-1 tolerances, unless otherwise s	specified. starting condition.		

Project:	C	ontractor/Client		Date:	
Consultant	Pa	ackage			