•	Bijlee	Data sheel	t for motors	
Manufacturer Bharat Bijlee Ltd.			Customer	
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No Customer P.O.Number	
Quantity Application CUSTOM		ER TO FURNISH	W.O. No. / SAP No.	
Fag no.	00010111		Output kW / pole	90 / 4P
BBL type tef.			Frame size	280M
Installation deta	ils		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	
m	1-4-21-		Noise level: IS 12065 Supply conditions and permissible variations (gria	1 <b>1</b> )
Hazardous area details Area classification GAS (Zone 1/Zone 2)		N.A.	Supply conditions and permissible variations (grid Number of phases	Three
Jas 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 authority for hazardous area				
	2	Not Applicable		
Electrical param Starting perform				
Method of startin		DOL	Starting current (%FLC)	650
Load speed (rpm	0	CUSTOMER TO FURNISH	Starting torque (%FLT)	230
Motor GD <sup>2</sup> (kgm	/	6.87	Pull out torque (%FLT)	280
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	<u> </u>
	ated voltage (sec)	DETAILS		
Running Perforn Efficiency class	nance	IE2	Duty and designation	Continuous (S1)
	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-
Enclosure		TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL	F/B
		FAN COOLED) 155		Squirrel Cage
Full load current (FLC) amps. Full load speed (rpm)		1485	Rotor type (Squirrel Cage/ Slip ring ) Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable
Full load torque (FLT) kg-m		59	Stator/rotor time constant (min)	144/194
	t FL/0.75FL/0.5FL	94.2 94.2 93.5	Power factor at FL/0.75FL/0.5FL	0.86 0.82 0.76
Mechanical para Mounting	ameters	B3	Mounting dimensions	Refer GA drawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic
Net weight of motor (kgs.)		725	Paint shade	RAL 5000
		125	Earthing provision (two terminals on stator body)	Yes
Bearings			Terminal box	
Coupling (Direct/flexible/Belt &		Direct	Terminal box location when viewed from DE	As per GA drawing
Pulley/Gearbox) Dimenssions of r	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing
	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MM
Bearing size DE/	<u> </u>	6317 C3 / 6316 C3	Earthing provision (one terminal in TB)	Yes
ÿ		SKF LGMT3- GREASE	No of phases/Winding connection/number of	
Fype of lubrication	on	SKF LGM13- GREASE	terminals	3 / DELTA / 6
Accessories	rs simplex (w/o controller)		Arrow plate for direction of rotation	
	r per bearing (w/o controller)		Double compression glands (main cable)	
	ingle phase 50z, 230V		Double compression glands (Space	
			heater/thermisters/RTDs)	
	C, 1 number per phase		Brake (Type/voltage/torque)	
Additional 1-Bos				
Notes:	•		1	L
		0034-1 tolerances, unless otherwise		
	-	ted frequency condition and for DOL	starting condition.	
	Load $GD^2$ assumed wherever no	t mentioned. provision of heavy duty relays is man	datory	
	is mandatory and HP is approx		unory.	
	ovided are marked as "YES"			
				[
				Prepared by
				Approved by
				Revison
Project:		Contractor/Client		Date: