-	Bijlee	Data sheet	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.	COSTONI		Output kW / pole	90 / 4P
BBL type tef.			Frame size	280M
Installation deta	ils		Applicable standards (latest edition)	
Area classificatio	on (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	
I an and out an a	dataila		Noise level: IS 12065 Supply conditions and permissible variations (gria	I aump Iu)
Hazardous area details Area classification GAS (Zone 1/Zone 2)		N.A.	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%
	rity for hazardous area	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 ² (kgm	/	6.87	Pull out torque (%FLT)	280
Load GD ² (kgm ²)		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.) provided Load GD2 = Motor GD2	2/3
Péontin - tim	atad valtage ()	PLEASE FURNISH ALL ABOVE		
	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
Full load current (FLC) amps.		FAN COOLED) 155	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage
Full load speed (rpm)		1485	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable
Full load torque (FLT) kg-m		59	Stator/rotor time constant (min)	144/194
Efficiency in % a Mechanical para	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
Mounting	uneters	B8	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
			Earthing provision (two terminals on stator body)	Yes
Bearings	/fl: 1-1 - /D - 14 - 9		Terminal box	
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing
	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing
Bearings (roller/t	oall/angular contact)	Ball/Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MM
Bearing size DE/	NDE	6317 C3 / 6316 C3	Earthing provision (one terminal in TB)	Yes
Type of lubrication	on	SKF LGMT3- GREASE	No of phases/Winding connection/number of	3 / DELTA / 6
Accessories			terminals	
	rs simplex (w/o controller)		Arrow plate for direction of rotation	
BTDs - 1 number	r per bearing (w/o controller)		Double compression glands (main cable)	
Space heaters - s	ingle phase 50z, 230V		Double compression glands (Space	
	C, 1 number per phase		heater/thermisters/RTDs) Brake (Type/voltage/torque)	
	x for Accessories			
Additional name				
Notes:		0004.1 . 1		
		0034-1 tolerances, unless otherwise s ted frequency condition and for DOL		
	Load GD ² assumed wherever no		starting condition.	
		provision of heavy duty relays is man	idatory.	
, 0	is mandatory and HP is approx		-	
Accessories pr	ovided are marked as "YES"			
				D 11
				Prepared by Approved by
				Revison
Project:		Contractor/Client		Date: