Quantity Application Tag no. BBL type tef. Installation detai			t for motors			
Quantity Application Fag no. 3BL type tef. Installation detail	Bharat Bijlee Ltd.		Customer			
Application Fag no. BBL type tef. Installation detail	3 Phase Induction Motor		BBL Enquiry reference No			
Tag no. BBL type tef. Installation detai			Customer P.O.Number			
BL type tef.	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.			
Installation detai			Output kW / pole	160	/	4P
			Frame size		315L	,
Area classification	ils		Applicable standards (latest edition)			
	n (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			Supply conditions and permissible variations (grid	d supply)	-	
	n GAS (Zone 1/Zone 2)	N.A.	Number of phases	41.5	Three	
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)		±10%)
Approving author	rity for hazardous area	Not Applicable				
Electrical param						
Starting perform						
Method of starting		DOL	Starting current (%FLC)		650	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
Motor GD ² (kgm ²	2)	14	Pull out torque (%FLT)		300	
Load GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
	4	Dorchalia TS	Number of consecutive starts (hot/cold) (nos.)		2/2	
Load torque-spee	a curve	Parabolic TS curve	provided Load $GD2 = Motor GD2$		2/3	
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perforn	nance	L				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./ter	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.		270	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		Cage
Full load speed (r		1487	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		105 94.9 94.6 93.1	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	144/194 0.87 0.84 0.7		0.78
Mechanical para	umeters					
Mounting		B5	Mounting dimensions			rawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	(Clockw	ise
Degree of protecti	1011	IP 55	Suitable for bidirectional rotation		Yes	
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic		с
Net weight of mo	tor (kgs)	1145	Paint shade	R	RAL 50	00
tet weight of mo	(Kg5.)	1110	Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct/	/flexible/Belt &	Direct	Terminal box location when viewed from DE	Acne	r GA A	rawing
Pulley/Gearbox)				As per GA drawing		
Dimenssions of p	ulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		Irawing
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 240 SQ M		0 SQ M
0.						
Bearing size DE/NDE		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
Гуре of lubricatio	on	Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		A / 6
Accessories		<u>I</u>	terminais	1		
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
	r per bearing (w/o controller)		Double compression glands (main cable)			
			Double compression glands (main cubic)			
Space heaters - single phase 50z, 230V			heater/thermisters/RTDs)			
Space heaters - si	C , 1 number per phase		Brake (Type/voltage/torque)			_
Thermisters - PTC						
- Thermisters - PTC Additional T-Box	olate					
Thermisters - PTC Additional T-Box Additional namep						
Thermisters - PTC Additional T-Box Additional namep Notes:		50034-1 tolerances, unless otherwise s				
Thermisters - PTC Additional T-Box Additional namep Votes: 1)All performance			starting condition.			
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance 2)Performance va	alues are at rated voltage and ra	ated frequency condition and for DOL	e			
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance va 3)Motor GD ² = L	alues are at rated voltage and rate GD^2 assumed wherever no	ot mentioned.	-			
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance 2)Performance va 3)Motor GD ² = L 4)Where starting	alues are at rated voltage and ratio GD^2 assumed wherever not time is more than 10 seconds,	ot mentioned. provision of heavy duty relays is man	-			
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance 2)Performance va 3)Motor GD ² = L 4)Where starting 5)Kilowatt rating	alues are at rated voltage and ra- coad GD^2 assumed wherever no time is more than 10 seconds, is mandatory and HP is approx	ot mentioned. provision of heavy duty relays is man	-			
Thermisters - PTC Additional T-Box Additional namep <i>Notes:</i> 1)All performance 2)Performance va 3)Motor GD ² = L 4)Where starting 5)Kilowatt rating	alues are at rated voltage and ratio GD^2 assumed wherever not time is more than 10 seconds,	ot mentioned. provision of heavy duty relays is man	-			
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance 2)Performance va 3)Motor GD ² = L 4)Where starting 5)Kilowatt rating	alues are at rated voltage and ra- coad GD^2 assumed wherever no time is more than 10 seconds, is mandatory and HP is approx	ot mentioned. provision of heavy duty relays is man	-			
Chermisters - PTC Additional T-Box Additional namep Notes: (2)Performance va (3)Motor GD ² = L (4)Where starting (5)Kilowatt rating	alues are at rated voltage and ra- coad GD^2 assumed wherever no time is more than 10 seconds, is mandatory and HP is approx	ot mentioned. provision of heavy duty relays is man	-			
Thermisters - PTC Additional T-Box Moditional namep Notes:) All performance va) Motor GD ² = L) Motor GD ² = L) Where starting) Kilowatt rating	alues are at rated voltage and ra- coad GD^2 assumed wherever no time is more than 10 seconds, is mandatory and HP is approx	ot mentioned. provision of heavy duty relays is man	-	Prepared by		
Thermisters - PTC Additional T-Box Additional namep Notes: 1)All performance 2)Performance va 3)Motor GD ² = L 4)Where starting 5)Kilowatt rating	alues are at rated voltage and ra- coad GD^2 assumed wherever no time is more than 10 seconds, is mandatory and HP is approx	ot mentioned. provision of heavy duty relays is man	-	Prepared by Approved b		

Project:		Contractor/Client		Date:	
Consultant		Package		Date.	