Manufacturer			for motors			
F	Bharat Bijlee Ltd.		Customer			
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Quantity	CUSTON		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	15	,	21
Tag no. BBL type tef.			Output kW / pole Frame size	15	/ 160N	21
Installation detail	ils		Applicable standards (latest edition)		1000	1
Area classification	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			
<b>TY 1</b>	1 / 1		Noise level: IS 12065			
Hazardous area details		N.A.	Supply conditions and permissible variations (grid Number of phases	t supply)	Thre	0
Area classification GAS (Zone 1/Zone 2) 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%	
	rity for hazardous area	Not Applicable				
Electrical param	neters					
Starting perform						
Method of startin	0	DOL	Starting current (%FLC)		650	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	200		
Motor GD <sup>2</sup> (kgm <sup>2</sup>	/	0.191	Pull out torque (%FLT)		250	
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	1
Load torque-spee	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
0	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	ШЭ		C-		- (01)
Efficiency class		IE2 50 / 70	Duty and designation CDF/Equivalent starts per hour/FI	Continuous (S1)		
Ambient temp./temp.rise by resistance (deg.C) Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.		26.3	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)		2940	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (	FLT) kg-m	4.97	Stator/rotor time constant (min)		90/12	2
Efficiency in % at Mechanical para	t FL/0.75FL/0.5FL	90.3 90.0 88.0	Power factor at FL/0.75FL/0.5FL	0.88	0.87	0.8
Mounting	inclus s	B3	Mounting dimensions	Ref	er GA d	rawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	0
Degree of protect	ion	IP 55	Suitable for bidirectional rotation		Yes	
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		
Net weight of mo	otor (kgs.)	115	Paint shade		RAL 50	
Bearings			Earthing provision (two terminals on stator body) Terminal box		Yes	
Coupling (Direct/	/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)	ulloy (OD y width) mm		Direction of cohio entry			
Dimensions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing		
Bearings (roller/b	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 10 SQ M		
Bearing size DE/	NDE	6309 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories		I				
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
ы Ds - I number	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)			
Thermisters - PT Additional T-Box						
Thermisters - PTO Additional T-Box Additional namer	for Accessories					
Thermisters - PTC Additional T-Box Additional namep Notes:	a for Accessories	60034-1 tolerances, unless otherwise s	specified.			
Thermisters - PTC Additional T-Box Additional namep <i>Notes:</i> 1)All performance 2)Performance va	t for Accessories plate we values are subject to IS/IEC θ alues are at rated voltage and ra	ted frequency condition and for DOL				
Thermisters - PT( Additional T-Box Additional namep <b>Notes:</b> 1)All performance 2)Performance va 3)Motor GD <sup>2</sup> = L	t for Accessories plate e values are subject to IS/IEC θ alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no	ted frequency condition and for DOL of mentioned.	starting condition.			
Thermisters - PTG Additional T-Box Additional namep <i>Notes:</i> 1)All performance 2)Performance va 3)Motor GD <sup>2</sup> = L 4)Where starting 5)Kilowatt rating	t for Accessories plate e values are subject to IS/IEC 6 alues are at rated voltage and ra coad GD <sup>2</sup> assumed wherever no time is more than 10 seconds, s is mandatory and HP is appro-	ted frequency condition and for DOL of mentioned. provision of heavy duty relays is man	starting condition.			
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Project:	Contractor/Client	т	Date:	
Consultant	Package	L	Date.	