	Bijlee	Dulu sheel	t for motors			
Manufacturer	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.			
Tag no.			Output kW / pole	45	/	2P
BBL type tef. Installation deta	17		Frame size		225M	1
installation aeta	uus		Applicable standards (latest edition)	1		
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck		Industrial safe area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:900 Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area	details	<u> </u>	Supply conditions and permissible variations (grid	d supply)		
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three		e
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%		
Temp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%		±5%
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)	±10%		•
Approving autho	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 current (%FLC) Starting torque (%FLT)		230	
Motor GD ² (kgm		1.04	Pull out torque (%FLT)	230		
	/	CUSTOMER TO FURNISH	1 ()	15	240	20
Load GD ² (kgm ²))	COSTOWER 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	
Starting time at r	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	mance	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
Efficiency class		IE2	Duty and designation	Cor	ntinuous	s (S1)
Ambient temp./te	emp.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.		77.5	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		2965	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	No	ot applie	
Full load torque (14.8	Stator/rotor time constant (min)		108/14	
Efficiency in % a Mechanical para	at FL/0.75FL/0.5FL ameters	92.9 92.9 91.5	Power factor at FL/0.75FL/0.5FL	0.87	0.85	0.80
Mounting		B5	Mounting dimensions		er GA di	
Shaft extention	-	Single cylindrical	Direction of rotation viewed from DE		Clockw	ise
Degree of protect	tion	IP 55	Suitable for bidirectional rotation		Yes	
Method of coolin	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		с
Net weight of mo	otor (kgs.)	365	Paint shade]	RAL 50	00
Dogniuco			Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Bearings Coupling (Direct	/flexible/Belt &					
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		lrawing
	pulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		lrawing
·	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C x 50 SQ MM		
	U ,	6312 (2) / (2)12 (2)				-
Bearing size DE/NDE		6313 C3 / 6213 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication	on	SKF LGMT3- GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories		. <u></u>				
RTDs - 3 numbers simplex (w/o controller)			Arrow plate for direction of rotation			
BTDs - 1 number	er per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - s	ingle phase 50z, 230V		Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PT	°C, 1 number per phase		Brake (Type/voltage/torque)			
Additional T-Box						
Additional name						
Notes:						
		50034-1 tolerances, unless otherwise s				
2)Performance v:	-	ted frequency condition and for DOL	starting condition.			
	Load GD ² assumed wherever no					
3)Motor $GD^2 = L$	time is more than 10 seconds,	provision of heavy duty relays is man	datory.			
3)Motor $GD^2 = L$ 4)Where starting		ximate.				
 3)Motor GD² = L 4)Where starting 5)Kilowatt rating 	g is mandatory and HP is approx					
 3)Motor GD² = L 4)Where starting 5)Kilowatt rating 	g is mandatory and HP is approx rovided are marked as "YES"					
 3)Motor GD² = L 4)Where starting 5)Kilowatt rating 						
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 3)Motor GD² = L 4)Where starting 5)Kilowatt rating 						
3)Motor GD ² = L 4)Where starting 5)Kilowatt rating						
3)Motor GD ² = L 4)Where starting 5)Kilowatt rating				Prepared by		
 3)Motor GD² = L 4)Where starting 5)Kilowatt rating 				Prepared by Approved by Revison		

Project:	Contractor/Client		Date:	
Consultant	Package		Date.	