M 6 4	Bijlee	Data sheet	jor 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.			
Гag no.			Output kW / pole	18.5	/	4I
BBL type tef.			Frame size		180N	1
Installation deta	ils		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)		Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900			
Location: indoor/		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
	1		Noise level: IS 12065	1 1		
Hazardous area	on GAS (Zone 1/Zone 2)	N.A.	Supply conditions and permissible variations (grid Number of phases	i suppiy)	Three	
Gas group	Sil GAS (Zolle 1/Zolle 2)	N.A.	Voltage (Volts) and permisible variation	415		±10%
Femp.class		N.A.	Frequency (Hz) and permissible variation	413 ±10%		
Type of Explosion protection (FLP/Type		N.A.	Combined variation (absolute sum)	±10%		
e'/Type 'n') Approving autho	rity for hazardous area	Not Applicable				
Electrical param	-	Not Appleable				
Starting perform		DOL	Starting august (0/ ELC)		600	
Method of startin Load speed (rpm		CUSTOMER TO FURNISH	Starting current (%FLC) Starting torque (%FLT)		260	
Load speed (rpm Motor GD <sup>2</sup> (kgm	,	0.467	Pull out torque (%FLT)	260		
( U	/	CUSTOMER TO FURNISH		10	290	~
Load GD <sup>2</sup> (kgm <sup>2</sup> )			Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	10	/	20
Load torque-spee	ea curve	Parabolic TS curve PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2		2/3	
0	ated voltage (sec)	DETAILS				
Running Perforn	านกับข	IE2	Duty and designation	C	ontinuous	( <b>§</b> 1)
Efficiency class	omn rise hy resistance (deg ()	<u>1E2</u> 50 / 70	Duty and designation CDF/Equivalent starts per hour/FI	Co	miniuou	5 (31)
Ambient temp./temp.rise by resistance (deg.C)		TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL	- F/B		
Enclosure		FAN COOLED)				
Full load current (FLC) amps.		33.6	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)		1465	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (		12.3	Stator/rotor time constant (min)	0.94	108/14	
2	tt FL/0.75FL/0.5FL	91.2 91.2 90.5	Power factor at FL/0.75FL/0.5FL	0.84	0.80	0.7
Mechanical para Mounting	ameters	B8	Mounting dimensions	Pot	fer GA d	rowing
Shaft extention		Single cylindrical	Mounting dimensions Direction of rotation viewed from DE	Kel		U
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Clockwise Yes		
0 1						
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		с
Net weight of mo	otor (kgs.)	168	Paint shade		RAL 50	000
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct	/flexible/Belt &	Direct	Terminal how location when viewed from DE	٨٩٦	per GA d	Irowing
Pulley/Gearbox)			Terminal box location when viewed from DE	As per GA drawing		
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R x 3C x 16 Sqmm		
Bearing size DE/	NDE	6310 2Z C3 / 6210 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	• • • • •					
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
51Ds - 1 number	r per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PTC , 1 number per phase Additional T-Box for Accessories			Brake (Type/voltage/torque)			
Additional name						
Notes:						
)All performanc	e values are subject to IS/IEC 6	0034-1 tolerances, unless otherwise s	specified.			
	-	ted frequency condition and for DOL	starting condition.			
	Load GD <sup>2</sup> assumed wherever no					
		provision of heavy duty relays is man	datory.			
, .	g is mandatory and HP is approx	kimate.				
	rovided are marked as "YES"					
<ol><li>Accessories pr</li></ol>						
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Project:	Contractor/Client		Date:	
Consultant	Package		Date.	