Bharat Bijlee				T		
Manufacturer Bha	rat Bijlee Ltd.		Customer			
<b>Type of motor 3 Ph</b>	ase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.			
Гаg no.			Output kW / pole	1.5	/	4P
BBL type tef.		2J09L475	Frame size		MJ90	
Installation details		Γ	Applicable standards (latest edition)			
Area classification (Sa	afe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors	: IS/IEC 6	0079-1
Location: indoor/outdo	oor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area detai	ls		Supply conditions and permissible variations (gri	id supply)		
rea classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1(	0%
Temp.class		Τ5	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion pro e'/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for	or hazardous area	If Coal Mine application then DGMS else PESO				
Electrical parameters	4					
Starting performance						
		DOL	Starting current (%FLC)		550	
Aethod of starting		CUSTOMER TO FURNISH				
Load speed (rpm)			Starting torque (%FLT)	250		
$\frac{\text{Motor GD}^2 \text{ (kgm}^2)}{2}$		0.013	Pull out torque (%FLT)		280	• • •
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
.oad torque-speed cu	rve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rated v	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performanc	e					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./temp.r	ise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		_	
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current (FLC	b) amps.	3.23	Rotor type (Squirrel Cage/ Slip ring )	Sc	quirrel Ca	ge
Full load speed (rpm)		1425	Rotor voltage/rotor current (RV/RA) (Volts/Amps)			
Full load torque (FLT)	ko-m	1.03	Stator/rotor time constant (min)		84/113	
Efficiency in % at FL/		82.8 82.8 80.5	Power factor at FL/0.75FL/0.5FL	0.78 (	0.68	0.56
Mechanical paramete		02.0 02.0 00.3	rower factor at FL/0.75FL/0.5FL	0.78	5.08	0.50
Mounting		B5	Mounting dimensions	Pofe	er GA dra	wing
0			Direction of rotation viewed from DE			<u> </u>
haft extention		Single cylindrical		Clockwise		
Degree of protection	FFC/forced	IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (The cooling (The cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor (l	kgs.)	43	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)	<b>X</b>		
Bearings			Terminal box	L		
Coupling (Direct/flexi	ble/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox) Dimenssions of pulley (OD x width) mm		_	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/a		- Ball /Ball	Cable size and type(Aluminium)	As per GA drawing   1R X 3C X 6 SQ MN		
Bearing size DE/NDE	,	6205 2Z C3 / 6205 2Z C	3 Earthing provision (one terminal in TB)		Yes	
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of	2	/ <b>СТ</b> АР /	2
Type of lubrication		LITHIUM SUAP BASE GREASE	terminals	5	/ STAR /	3
Accessories						
RTDs - 3 numbers sin	nplex (w/o controller)		Arrow plate for direction of rotation			
	bearing (w/o controller)		Double compression glands (main cable)			
1	phase 50z, 230V		Double compression glands (Space heater/thermisters/RTDs)			
space neaters single			$[1] \cup a \cup [1] \cup $	1		
Thermisters - PTC, 1			Brake (Type/voltage/torque)			
Thermisters - PTC, 1 Additional T-Box for Additional nameplate			Brake (Type/voltage/torque)			

Notes:

1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.

2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.

3)Motor  $GD^2$  = Load  $GD^2$  assumed wherever not mentioned.

4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.

5)Kilowatt rating is mandatory and HP is approximate.

6) Accessories provided are marked as "YES"

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		Appr	roved by
		Revis	son
Project:	Contractor/Client	Data	
Consultant	Package	Dates	•