Bharat Bijlee		Data sheet	J			
Manufacturer Bharat Bijlee Ltd.			Customer			
Гуре of motor З Р	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.			
Tag no.			Output kW / pole	55	/	2P
BBL type tef.		2J25M233	Frame size		MJ250	
nstallation details			Applicable standards (latest edition)			
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	tors: IS/IEC 6	60079-1
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 det	tails		Supply conditions and permissible variations (grid	l supply)	
Area classification G	GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Bas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
'emp.class		T4	Frequency (Hz) and permissible variation	50	±5	5%
Type of Explosion protection (FLP/Type e'/Type 'n')		Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
Electrical paramete						
starting performant	ce		1			
Aethod of starting		DOL	Starting current (%FLC)		650	
oad speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	230		
$A otor GD^2 (kgm^2)$		1.45	Pull out torque (%FLT)		270	
oad $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-speed c	curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rated	d voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performan	nce					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
	o.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI		_	(
Enclosure	<u> </u>	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FL	C) amps	92.2	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm		2970	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		0
Full load torque (FL)	,	18	Stator/rotor time constant (min)	108/146		
Efficiency in % at FI		93.2 92.9 91.0	Power factor at FL/0.75FL/0.5FL	0.89	0.87	0.81
<i>Anciency</i> in % at 14 <i>Aechanical parame</i>		93.2 92.9 91.0	rower factor at FL/0.75FL/0.5FL	0.89	0.07	0.01
Iounting		B8	Mounting dimensions	P	efer GA dra	wing
		Single cylindrical	Direction of rotation viewed from DE			<u> </u>
haft extention		. .		Clockwise		
egree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling (TEFC/Iorced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
ooled/TESC)		5.0		622 og man IC E		
Net weight of motor (kgs.)		560	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
Bearings	$r_{1} = \frac{1}{2} \frac{1}{2} \frac{1}{2}$		Terminal box			
Coupling (Direct/flexible/Belt &		Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)			Direction of achieve			
Dimenssions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MM		
Bearing size DE/ND	DE	6215 C3 / 6215 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		SKF LGMT3- GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories						
RTDs - 3 numbers si	implex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number pe	er 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			Brake (Type/voltage/torque)			
dditional T-Box for	or Accessories					
Space heaters - singl	le phase 50z, 230V 1 number per phase or Accessories		Double compression glands (Space heater/thermisters/RTDs)			

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"

		Prepared by	
		Approved by	
		Revison	
Project:	Contractor/Client	Date:	
Consultant	Package	Date.	