Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
pplication CUSTOMER TO FURNISH		W.O. No. / SAP No.				
Tag no.			Output kW / Pole	55	/	6P
BBL type Ref.		MD28M633	Frame size		MJ280	
Installation detail			Applicable standards (latest edition)			
	n (Safe / Hazardous)	Hazardous area		FLP Moto	ors: IS/IEC	60079-
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 a		_	Supply conditions and permissible variations (grid	supply)		
Area classification GAS (Zone 1/Zone 2)		ZONE I	Number of phases	Three		
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
Femp.class	плогестноп	T4	Frequency (Hz) and permissible variation	50	±5	5%
$(\mathbf{EI} \mathbf{D}/\mathbf{T}_{\mathbf{v}}) = \frac{1}{2} \frac$		Ex 'd'	Combined variation (absolute sum)		±10%	
Approving authori	ity for hazardous area	If Mine application then DGMS else PESO				
Electrical parame						
Starting performe					<u> </u>	
Method of starting		DOL CUSTOMED TO EUDNISU	Starting current (%FLC)	600		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
Motor GD^2 (kgm ²	,	6.16	Pull out torque (%FLT)	 	240	
Load GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	20	/	40
Load torque-speed	d curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at ra	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	I				
Efficiency class		_	Duty and designation	Continuous (S1)		(S1)
✓	np.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		_	× /
Enclosure		TEFC (TOTALLY ENCLOSED		F/B		
		FAN COOLED)			0 1 0	
Full load current (95.2	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		0
Full load speed (rpm)		984	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		ble
Full load torque (H		54.4	Stator/rotor time constant (min)	0.06	144/194	0.7
•	FL/0.75FL/0.5FL	93.5 93.0 92.0	Power factor at FL/0.75FL/0.5FL	0.86	0.83	0.76
Mechanical para	meters					•
Mounting		B3	Mounting dimensions	Refer GA drawing		<u> </u>
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		9
Degree of protecti	lon	IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acid Alkali Proof		roof
Net weight of motor (kg)		725	Paint shade	6	532 as per I	S 5
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box	_		
Coupling (Direct/f Pulley/Gearbox)	flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
· /	alley (OD x width) mm	_	Direction of cable entry	As per GA drawing		wing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MI		
Bearing size DE/NDE		6317 C3/6316 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		SKF LGMT3- GREASE	no or phase/ winding connection/number of	3 / DELTA / 6		
Accessories	11	JIM LOWITJ- UNLASE	tamainala	· ·		/ U
	s simplex(w/o controller)		Arrow plate for direction of rotation			
			Arrow plate for direction of rotation			
	per bearing(w/o controller) ngle phase 50z, 230V		Double compression glands (main cable)Double compression glands (Space			
•			heater/Thermisters/RTDs)			
Thomasistons DTC			Brake (Type/voltage/torque)			
Thermisters - PTC Additional T-Box						

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			