Type of motorQuantityApplication	Bharat Bijlee Ltd. 3 phase Induction Motor		Customer			
Quantity Application	3 phase Induction Motor					
Application	<u></u>		BBL Enquiry reference No			
			Customer P.O.Number			
T	Application CUSTOMER TO F		W.O. No. / SAP No.			
Гag no.			Output kW / Pole	75	/	2P
BBL type Ref.		MD28S215	Frame size		MJ280	
Installation detail	ls la		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)		Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	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 d	letails		Supply conditions and permissible variations (grid	supply)		
Area classification	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group	/	IIA, IIB	Voltage (Volts) and permisible variation	415	±1)%
Femp.class		T4	Frequency (Hz) and permissible variation	50		5%
rypé or Explosion	-	Ex 'd'	Combined variation (absolute sum)		±10%	, .
EL D/Tupe 'e'/Tupe 'n' Approving authority for hazardous area		If Mine application then DGMS else PESO			21070	
Electrical parame	eters					
Starting performa	ance					
Method of starting	Г 2	DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	180		
Motor GD^2 (kgm ²))	2.63	Pull out torque (%FLT)		270	
Load GD ^{2} (kgm ^{2})	,	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	20	/	40
Load torque-speed		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rat	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	ance	DETAILS				
Efficiency class		_	Duty and designation		ontinuous	$(\mathbf{S}1)$
~	np.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI		-	
Enclosure	np.nse by resistance (deg.e.)	TEFC (TOTALLY ENCLOSED		F/B		
		FAN COOLED)		<u> </u>	0 10	
Full load current (· L	122.0	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		0
Full load speed (rp		2970	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	1	Not applica	
Full load torque (F	× 0	24.6	Stator/rotor time constant (min)		108/146	
•	FL/0.75FL/0.5FL	93.7 92.5 90.0	Power factor at FL/0.75FL/0.5FL	0.91	0.89	0.84
Mechanical paran	neters					
Mounting		B5	Mounting dimensions	Re	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		e
Degree of protecti	on	IP 55	Suitable for bidirectional rotation	Yes		
0 1	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		roof
Net weight of motor (kg)		690	Paint shade	(532 as per I	S 5
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct/f Pulley/Gearbox)	lexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
v ,	alley (OD x width) mm	_	Direction of cable entry	As per GA drawing		
1	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ MM		
Bearing size DE/N	JDE	6316 C3/6316 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		SKF LGMT3- GREASE	The of phase winning connection/number of	3 / DELTA / 6		
V 1	L L	SIXI' LUWI I J- UKEASE	tamainala			/ U
Accessories	$a = \frac{1}{2} + $			<u> </u>		
	s simplex(w/o controller)		Arrow plate for direction of rotation			
	per bearing(w/o controller)		Double compression glands (main cable)Double compression glands (Space			
BTDs - 1 number	valo phase 50π $220V$			1		
BTDs - 1 number	ngle phase 50z, 230V		heater/Thermisters/RTDs)			
BTDs - 1 number			heater/Thermisters/RTDs)Brake (Type/voltage/torque)			
BTDs - 1 number Space heaters - sir Thermisters - PTC						
BTDs - 1 number	for Accessories					

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			