	Bijlee		t for motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
ype of motor	<b>3 phase Induction Motor</b>		BBL Enquiry reference No		
Quantity			Customer P.O.Number		
pplication	CUSTOME	R TO FURNISH	W.O. No. / SAP No.		
ag no.			Output kW / Pole	37 / 4P	
BL type Ref.		MD22S415	Frame size	MJ225	
nstallation detai			Applicable standards (latest edition)	T	
rea classification	n (Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors: IS/IEC 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	details		Supply conditions and permissible variations (grid	supply)	
		Number of phases	Three		
Bas group		IIA, IIB	Voltage (Volts) and permisible variation	415 ±10%	
emp.class		T5	Frequency (Hz) and permissible variation	50 ±5%	
ype or Explosion		Ex 'd'	Combined variation (absolute sum)	±10%	
EL D/Turna 'a'/Tur Approving author	rity for hazardous area	If Mine application then DGMS else PESO			
Electrical param					
tarting perform		DOI	Starting auroat (0/ FI C)	600	
Aethod of startin	0	DOL CUSTOMED TO EUDNISU	Starting current (%FLC)	600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	230	
/lotor GD <sup>2</sup> (kgm <sup>2</sup>		1.41	Pull out torque (%FLT)	240	
oad GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30	
oad torque-spee	ed curve	Parabolic IS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3	
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS		·	
Running Perform	nance	- <b>-</b>	•		
Efficiency class		_	Duty and designation	Continuous (S1)	
Ambient temp./te	mp.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI	-	
Enclosure		TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL	F/B	
		FAN COOLED)			
Full load current (	(FLC) amps.	65.3	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (r	rpm)	1470	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (	FLT) kg-m	24.5	Stator/rotor time constant (min)	108/146	
Efficiency in % at	t FL/0.75FL/0.5FL	93.0 93.0 91.0	Power factor at FL/0.75FL/0.5FL	0.85 0.82 0.75	
Iechanical para	umeters			•	
Iounting		B5	Mounting dimensions	Refer GA drawing	
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise	
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes	
0 1					
	g (TEFC/forced cooled/TESC)	``´´	Paint type	Acid Alkali Proof	
Net weight of mo	otor (kg)	386	Paint shade	632 as per IS 5	
			Earthing provision (two terminals on stator body)	Yes	
Bearings			Terminal box	T	
Coupling (Direct/	flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing	
uney/Gearbox)	ulley (OD x width) mm	_	Direction of cable entry	As per GA drawing	
•	earings (roller/ball/angular contact) Ball /Ball		Cable size and type(Aluminium)	2R X 3C X 120 SQ MM	
Dimenssions of p	all/angular contact)			Vac	
Dimenssions of p Bearings (roller/b		6213 C3/6213 C3	Farthing provision (one terminal in TR)	Vac	
Dimenssions of p Bearings (roller/b Bearing size DE/I	NDE	6213 C3/6213 C3	Earthing provision (one terminal in TB)	Yes	
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication	NDE	6213 C3/6213 C3 SKF LGMT3- GREASE	Earthing provision (one terminal in TB) no of phase/ winding connection/number of	Yes 3 / DELTA / 6	
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication	NDE on	6213 C3/6213 C3 SKF LGMT3- GREASE	tamainala		
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication Cocessories RTDs - 3 number	NDE on cs simplex(w/o controller)	6213 C3/6213 C3 SKF LGMT3- GREASE	Arrow plate for direction of rotation		
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication Cocessories RTDs - 3 number	NDE on	6213 C3/6213 C3 SKF LGMT3- GREASE	Arrow plate for direction of rotation Double compression glands (main cable)		
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication Cocessories RTDs - 3 number BTDs - 1 number	NDE on cs simplex(w/o controller)		Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space		
Dimenssions of p Bearings (roller/b Bearing size DE/I Space heaters - si	NDE on cs simplex(w/o controller) c per bearing(w/o controller) ingle phase 50z, 230V		Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/Thermisters/RTDs)		
Bearings (roller/b Bearing size DE/I Fype of lubrication Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Fhermisters - PTC	NDE on cs simplex(w/o controller) c per bearing(w/o controller) ingle phase 50z, 230V C		Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space		
Dimenssions of p Bearings (roller/b Bearing size DE/I Type of lubrication Corression Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PTC	NDE on rs simplex(w/o controller) r per bearing(w/o controller) ingle phase 50z, 230V C		Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/Thermisters/RTDs)		

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	
<b>Project:</b>	Contractor/Client		Date:	
Consultant	Package			