	e		et for motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No		
Quantity			Customer P.O.Number		
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.		
ag no.			Output kW / pole	160 /	2P
BL type tef.		2J31L253	Frame size	MJ	315
nstallation detail	ls		Applicable standards (latest edition)		
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors: IS/I	EC 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		
lazardous area d			Supply conditions and permissible variations (gri		
rea classification	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases	Th	ree
las group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10%
emp.class		T4	Frequency (Hz) and permissible variation	50	±5%
ype of Explosior //Type 'n')	n protection (FLP/Type	Ex d	Combined variation (absolute sum)	±1	0%
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO			
Electrical parame					
tarting perform					
Method of starting		DOL	Starting current (%FLC)	70	00
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	24	40
lotor GD ² (kgm ²	²)	6.2	Pull out torque (%FLT)	25	50
oad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 /	30
oad torque-speed		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2	/ 3
tarting time at ra	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS			
Punning Perforn	nance	DLIALS			
Running Performance Efficiency class		IE2	Duty and designation	Continuous (S1)	
~	mp.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI	(01)	
nclosure	inp.nse by resistance (deg.e)	TEFC (TOTALLY ENCLOSED FAN COOLED)		F/B	
ull load current ((ELC) amps	261	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage	
Full load speed (r		2985	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		
	L ′				
ull load torque (I		52.2	Stator/rotor time constant (min)		/194
<i>The chanical para</i>	t FL/0.75FL/0.5FL	94.8 94.1 93.0	Power factor at FL/0.75FL/0.5FL	0.90 0.86	0.80
founting		B8	Mounting dimensions	Refer GA	drawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing	
				Clockwise	
egree of protectified of cooling		IP 55	Suitable for bidirectional rotation	Yes	
coled/TESC)	g (TEPC/IDICEU	TEFC (IC 411)	Paint type	Acid Alkali Proof	
let weight of mot	tor (kgs)	1240	Paint shade	632 as per IS 5	
			Earthing provision (two terminals on stator body)		
earings		<u> </u>	<i>Terminal box</i>		- ~
Coupling (Direct/	flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing	
ulley/Gearbox) Dimenssions of pu	ulley (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 185 SQ MM	
earing size DE/N	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes	
	on	Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6	
C					
ype of lubricatio					
ype of lubricatio	s simplex (w/o controller)		Arrow plate for direction of rotation		
ype of lubricatio <i>ccessories</i> TDs - 3 numbers	s simplex (w/o controller)		Arrow plate for direction of rotation Double compression glands (main cable)		
Type of lubrication Accessories ATDs - 3 numbers BTDs - 1 number	rs simplex (w/o controller) per bearing (w/o controller) ngle phase 50z, 230V		Double compression glands (main cable)Double compression glands (Space		
Type of lubricatio <i>ccessories</i> TDs - 3 numbers TDs - 1 number pace heaters - sin Thermisters - PTC	per bearing (w/o controller)		Double compression glands (main cable)		

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"

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