e	ee					
Manufacturer Bharat Bijlee Ltd.			Customer			
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Juantity			Customer P.O.Number			
pplication	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.			
'ag no.			Output kW / pole	150	/	6P
BL type tef.		2J31L6B3	Frame size		MJ315	
nstallation detai	ils		Applicable standards (latest edition)			
Area classification (Safe / Hazardous)		Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	ors: IS/IEC 6	50079-1
ocation: 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			Supply conditions and permissible variations (gri	d supply)		
rea classificatio	on GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
as group		IIA, IIB	Voltage (Volts) and permisible variation	415	±1	0%
emp.class		T4	Frequency (Hz) and permissible variation	50	±:	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 param	eters					
tarting perform						
Method of starting		DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
$\frac{\text{out speed (lpl)}}{\text{fotor GD}^2 (\text{kgm})}$	•	21.5	Pull out torque (%FLT)		250	
oad $GD^2(kgm^2)$,	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-spee		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	15	2/3	30
		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2			
C	ated voltage (sec)	DETAILS				
Running Performance Efficiency class		IE2	Duty and designation	Continuous (S1)		$(\mathbf{C1})$
~	mn rice by registeres (dec C)		Duty and designation	Continuous (S1)		
molent temp./te	emp.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI		_	
nclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current	(FLC) amps.	265	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
ull load speed (1	rpm)	990	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
ull load torque ((FLT) kg-m	148	Stator/rotor time constant (min)		144/194	
fficiency in % a	t FL/0.75FL/0.5FL	94.7 94.3 92.8	Power factor at FL/0.75FL/0.5FL	0.82	0.79	0.70
lechanical para	imeters					
Iounting		B8	Mounting dimensions	Re	efer GA dra	wing
naft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		e
egree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of coolin	g (TEFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
poled/TESC)	$\frac{1}{2}$	1 1 7 5	Doint chodo			
et weight of motor (kgs.)		1425	Paint shade Earthing provision (two terminals on stater hady)	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
earings	/flavibla/Ralt &		Terminal box			
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
imensions of pulley (OD x width) mm		_	Direction of cable entry	As per GA drawing		
X	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earing size DE/	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
		LINGENIC CDEAGE	No of phases/Winding connection/number of	3 / DELTA / 6		
Type of lubrication		Unirex-N3 - GREASE	terminals	•	J / DELIA	. / 0
ccessories						
TDs - 3 number	rs simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing (w/o controller)			Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/thermisters/RTDs)			
pace heaters - si			1 1 1 1 1 1 1 1			
hermisters - PT	C, 1 number per phase		Brake (Type/voltage/torque)			
hermisters - PT	x for Accessories		Brake (Type/voltage/torque)			

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	Data	
Consultant	Package	Date:	