Bharat Bijlee			for motors			
			Customer			
	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	105		4.D
ag no.			Output kW / pole	125	/	4P
BL type tef. <i>istallation details</i>		2J31M4A5	Frame size Applicable standards (latest edition)		MJ315	
istallation aetails)		Applicable standards (latest eatilon)			
Area classification (Safe / Hazardous)			Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	cors: IS/IEC 6	0079-1
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
ltitude (meters)		1000 or less	Vibrations: IS 12075			
* 1 1			Noise level: IS 12065	1 1	<u></u>	
Hazardous area de			Supply conditions and permissible variations (grid	l supply		
	GAS (Zone 1/Zone 2)	ZONE I	Number of phases	115	Three	20/
as group		IIA, IIB	Voltage (Volts) and permissible variation	415	±1(
emp.class	protoction (EI D/T	T4	Frequency (Hz) and permissible variation	50	±5	70
'/Type 'n')	protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
pproving authorit	ty for hazardous area	If Coal Mine application then DGMS else PESO				
Electrical paramet		•				
tarting performan			\mathbf{C} to atting \mathbf{C} over \mathbf{C} (0/ \mathbf{C} (\mathbf{C})			
Method of starting		DOL CUSTOMED TO EUDNISU	Starting current (%FLC)		650	
$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$		CUSTOMER TO FURNISH	Starting torque (%FLT)		250	
$\frac{1}{100} \text{ or } \text{GD}^2 (\text{kgm}^2)$	1	11.7	Pull out torque (%FLT)		300	
oad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
oad torque-speed	curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
tarting time at rate	ed voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performe	ance					
Efficiency class		IE2	Duty and designation	Continuous (S1)		
~	p.rise by resistance (deg.C)		CDF/Equivalent starts per hour/FI			
Enclosure	<u></u>	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (F	T C) amps	216	Rotor type (Squirrel Cage/ Slip ring)	Squirrol Cogo		αe
Full load speed (rp:	· · · ·	1486	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Squirrel Cage Not applicable		
Full load torque (F)	,	81.9	Stator/rotor time constant (min)		120/162	
I `	FL/0.75FL/0.5FL		Power factor at FL/0.75FL/0.5FL	0.85	0.81	0.74
<i>Allechanical paran</i>		עדיט עדיט אדיט דיט דיט אדיט אדיט איז		0.03	0.01	0.74
<i>Icenanical paran</i> Iounting		B5	Mounting dimensions	R	efer GA drav	wing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protection	 Dn	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling			Paint type	Acid Alkali Proof		
ooled/TESC)		``´´				
Net weight of motor (kgs.)		1045	Paint shade	632 as per IS 5		
· ·			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct/flexible/Belt &		Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox) Dimenssions of pul	lley (OD x width) mm	_	Direction of cable entry	As per GA drawing		
Ĩ	ll/angular contact)	- Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
Bearing size DE/N		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
C			No of phases/Winding connection/number of			
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6		
ccessories	• • • •					
	simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing (w/o controller)			Double compression glands (main cable)			
BTDs - 1 number p	1 1 50 0001		Double compression glands (Space			
BTDs - 1 number p Space heaters - sing	gle phase 50z, 230V		heater/thermisters/RTDs)			
Space heaters - sing	gle phase 50z, 230V , 1 number per phase		heater/thermisters/RTDs)Brake (Type/voltage/torque)			
Space heaters - sing	, 1 number per phase					

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:	