I						
Manufacturer Bharat Bijlee Ltd.			Customer			
J	Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.	110		
ag no.			Output kW / pole	110	/	6P
BL type tef. <i>Istallation details</i>		2J31M653	Frame size Applicable standards (latest edition)		MJ315	
			Applicable standards (latest eallion)			
Area classification (Safe / Hazardous)			Performance: IS/IEC 60034-1 Maintenance IS:900 H	FLP Moto	ors: 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			
r 1 1	. • 1		Noise level: IS 12065		<u> </u>	
lazardous area de			Supply conditions and permissible variations (grid	supply		
	GAS (Zone 1/Zone 2)	ZONE I	Number of phases	415	Three	00/
as group		IIA, IIB	Voltage (Volts) and permisible variation	415		0%
emp.class		T4	Frequency (Hz) and permissible variation	50	±5	5%
ype of Explosion _] '/Type 'n')	protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
lectrical paramet			·			
tarting performant	ice	DOI	Starting aureant (0/ EL C)		600	
Aethod of starting		DOL CUSTOMER TO EURNISH	Starting current (%FLC)		600	
$\frac{1}{2} \frac{1}{2} \frac{1}$			Starting torque (%FLT)	230		
$\frac{\text{Iotor GD}^2 \text{ (kgm}^2)}{2}$		15.5	Pull out torque (%FLT)		250	
bad GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
bad 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				
unning Performa	ince					
fficiency class		IE2	Duty and designation	Continuous (S1)		
•	p.rise by resistance (deg.C)	45 / 75	CDF/Equivalent starts per hour/FI	-		
nclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
full load current (F	LC) amps	193	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
full load speed (rpr	/ L	989	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	1 C		
Full load torque (FI	,	109	Stator/rotor time constant (min)		120/162	
fficiency in % at F			Power factor at FL/0.75FL/0.5FL	0.84	0.81	0.74
lechanical param		71.5 71.5 75.5		0.01	0.01	0.71
Iounting		B8	Mounting dimensions	Re	efer GA dra	wing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protectio	n	IP 55	Suitable for bidirectional rotation	Yes		
lethod of cooling			Paint type	A	cid Alkali P	roof
ooled/TESC)	n (1200)			622 og por IC F		
Net weight of motor (kgs.)		1110	Paint shade Earthing provision (two terminals on stater hody)	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
Searings	$avihla/Dalt P_{-}$		Terminal box			
Coupling (Direct/fle	exidie/Beit &	Direct	Terminal box location when viewed from DE	As per GA drawing		
ulley/Gearbox) Dimenssions of pul	ley (OD x width) mm		Direction of cable entry	As per GA drawing		
earings (roller/bal		- Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earing size DE/NI		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
		Linirov N2 CDEACE	No of phases/Winding connection/number of	3 / DELTA / 6		
ype of lubrication		Unirex-N3 - GREASE	terminals		J/ DELIA	/ U
ccessories			<u>.</u>			
	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)			
hermisters - PTC	, 1 number per phase		Brake (Type/voltage/torque)			
Additional T-Box for						
Additional namepla	4					

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:	