•	e					
Manufacturer Bharat Bijlee Ltd.			Customer			
Type of motor 3	B Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOME	ER TO FURNISH	W.O. No. / SAP No.			
ag no.			Output kW / pole	75	/	6P
BL type tef.		2J31S613	Frame size		MJ315	
nstallation detail	ls		Applicable standards (latest edition)			
	n (Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	ors: IS/IEC 6	0079-1
ocation: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			
ltitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
lazardous area d			Supply conditions and permissible variations (grid	l supply		
	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
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')	n protection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Coal Mine application then DGMS else PESO				
Electrical parame	eters					
tarting performa						
Iethod of starting		DOL	Starting current (%FLC)		600	
oad speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
$\frac{1}{1000 \text{ GD}^2 \text{ (kgm}^2)}$		10.7	Pull out torque (%FLT)		250	
oad $GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
bad torque-speed	d curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	15	2/3	50
			provided Load GD2 = Motor GD2			
tarting time at rat	ted voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Performance		[
fficiency class		IE2	Duty and designation	Continuous (S1)		
mbient temp./ter	np.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.	133	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
ull load speed (rp	pm)	988	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applical	ble
ull load torque (F	FLT) kg-m	73.9	Stator/rotor time constant (min)		108/146	
A ``_	FL/0.75FL/0.5FL	93.7 93.7 92.5	Power factor at FL/0.75FL/0.5FL	0.84	0.82	0.75
Iechanical parai	meters					
Iounting		B3	Mounting dimensions	R	efer GA dra	wing
naft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protecti	ion	IP 55	Suitable for bidirectional rotation	Yes		
Iethod of cooling ooled/TESC)	g (TEFC/forced	TEFC (IC 411)	Paint type	Acid Alkali Proof		
et weight of motor (kgs.)		940	Paint shade	632 as per IS 5		
0			Earthing provision (two terminals on stator body)		Yes	
earings			Terminal box			
Coupling (Direct/fulley/Gearbox)	flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
•	ulley (OD x width) mm	_	Direction of cable entry	As per GA drawing		
*	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		
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
ccessories		1				
	s simplex (w/o controller)		Arrow plate for direction of rotation			
	per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space			
Thermisters - PTC, 1 number per phase			heater/thermisters/RTDs)Brake (Type/voltage/torque)			
dditional T-Box	for Accessories					
dditional namep	1 .					

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:	