Bharat Bijlee			for motors			
			Customer			
	nase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOMI	ER TO FURNISH	W.O. No. / SAP No.	110		
ag no.		01010005	Output kW / pole	110	/	2P
BL type tef.		2J31S235	Frame size		MJ315)
nstallation details			Applicable standards (latest edition)			
Area classification (S	,		Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mot	cors: IS/IEC	60079-1
cation: 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 deta			Supply conditions and permissible variations (grid	l supply	·	
	AS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
as group		IIA, IIB	Voltage (Volts) and permisible variation	415	±	10%
emp.class		T4	Frequency (Hz) and permissible variation	50	1	:5%
ype of Explosion pro '/Type 'n')	otection (FLP/Type	Ex d	Combined variation (absolute sum)		±10%	
pproving authority f	for hazardous area	If Coal Mine application then DGMS else PESO				
lectrical parameter						
tarting performance	<i>e</i>					
Iethod of starting		DOL	Starting current (%FLC)		700	
oad speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		220	
$Iotor GD^2 (kgm^2)$		5	Pull out torque (%FLT)		250	
$ad GD^2(kgm^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
bad torque-speed cu	rve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
arting time at rated	voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
unning Performan	~ <i>р</i>					
fficiency class		IE2	Duty and designation	Continuous (S1)		
•	rice by registeres (deg C)			Continuous (S1)		
molent temp./temp.i	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 (FLO	C) amps.	180	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
ull load speed (rpm)		2982	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applic	able
ull load torque (FLT) kg-m	35.9	Stator/rotor time constant (min)		108/14	6
fficiency in % at FL		94.3 94.1 91.5	Power factor at FL/0.75FL/0.5FL	0.90	0.86	0.80
lechanical paramet				0.70	0.00	0.00
Iounting		B5	Mounting dimensions	R	efer GA dı	awing
haft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
egree of protection		IP 55	Suitable for bidirectional rotation	Yes		
lethod of cooling (T	EFC/forced		Paint type	Acid Alkali Proof		
poled/TESC)	(kac)	1050	Doint shado	622 og man IC 5		
et weight of motor (<u>kgs.</u> j	1050	Paint shade Earthing provision (two terminals on stater body)	632 as per IS 5		
			Earthing provision (two terminals on stator body)		Yes	
<i>earings</i> oupling (Direct/flex)	ible/Belt &		Terminal box			
ulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
imenssions of pulles	y (OD x width) mm	_	Direction of cable entry	As per GA drawing		
		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MM		
earings (roller/ball/a		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
	Ξ			3 / DELTA / 6		
earing size DE/NDE	Ξ		No of phases/Winding connection/number of		~~ /) ~ ' '	x / U
earing size DE/NDE	Ξ	Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals		3 / DELTA	
earing size DE/NDE	E				3 / DELTA	
earing size DE/NDE ype of lubrication ccessories	E nplex (w/o controller)				3 / DELTA	
earing size DE/NDE ype of lubrication ccessories TDs - 3 numbers sir			terminals		3 / DELTA	
	nplex (w/o controller) bearing (w/o controller)		terminalsArrow plate for direction of rotationDouble compression glands (main cable)Double compression glands (Space		3 / DELTA	
earing size DE/NDE ype of lubrication ccessories TDs - 3 numbers sir TDs - 1 number per	nplex (w/o controller) bearing (w/o controller) phase 50z, 230V		terminals Arrow plate for direction of rotation Double compression glands (main cable)		3 / DELTA	
earing size DE/NDE ype of lubrication <i>ccessories</i> TDs - 3 numbers sin TDs - 1 number per pace heaters - single	nplex (w/o controller) bearing (w/o controller) phase 50z, 230V number per phase		terminalsArrow plate for direction of rotationDouble compression glands (main cable)Double compression glands (Space heater/thermisters/RTDs)		3 / DELTA	

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:	