Bharat E	bijiee	Data sheet	t jor motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
ManufacturerBharat Bijlee Ltd.Type of motor3 Phase Induction Motor			BBL Enquiry reference No		
Quantity	3 Phase Induction Motor CUSTOMER TO FURNISH		Customer P.O.Number		
Application			W.O. No. / SAP No.		
Tag no.	CONTIN		Output kW / pole	0.75 /	8P
BL type tef.			Frame size		00L
installation deta	nils		Applicable standards (latest edition)	1	OOL
nstandition acta			ipplicable standards (difest callon)		
Area classification	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900		
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		
Altitude (meters)		1000 or less	Vibrations: IS 12075		
innude (meters)	,	1000 01 1000	Noise level: IS 12065		
Hazardous area	details		Supply conditions and permissible variations (grid	(sunnly)	
		N.A.	Number of phases		hree
Area classification GAS (Zone 1/Zone 2) Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%	
Temp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%	
		14.74.	requercy (112) and permissible variation	50 1570	
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)	±10%	
(Type II)					
approving authors	prity for hazardous area	Not Applicable			
lectrical paran					
tarting perform		DOI	Stanting and (N/ETC)		200
Method of starting		DOL CUSTOMED TO EUDNISH	Starting current (%FLC)	300	
oad speed (rpm	,	CUSTOMER TO FURNISH	Starting torque (%FLT)	190	
lotor GD <sup>2</sup> (kgn	/	0.022	Pull out torque (%FLT)		230
oad GD <sup>2</sup> (kgm <sup>2</sup> )	)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30 /	60
		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	,	0/2
oad torque-spec	ea curve	rarabone 15 curve	provided Load $GD2 = Motor GD2$	2/3	
annation of		PLEASE FURNISH ALL ABOVE			
tarting time at i	rated voltage (sec)	DETAILS			
Running Perfor	mance				
fficiency class		IE2	Duty and designation	Continu	ious (S1)
	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-	
•	1	TEFC (TOTALLY ENCLOSED	· · ·	F/B	
nclosure		FAN COOLED)	Insulation class / utilisation class on DOL		
Full load current (FLC) amps.		2.25	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (rpm)		685	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (FLT) kg-m		1.07	Stator/rotor time constant (min)	108/146	
	at FL/0.75FL/0.5FL	66.2 66.2 66.2	Power factor at FL/0.75FL/0.5FL	0.70 0.61	
Aechanical par		00.2 00.2 00.2	Tower factor at TE/0.75TE/0.5TE	0.70 0.01	0.50
Aounting	umeters	B5	Mounting dimensions	Refer G	A drawing
haft extention		Single cylindrical	Direction of rotation viewed from DE		ckwise
Degree of protec	tion	IP 55	Suitable for bidirectional rotation	Yes	
regree of protect		11 55	Suitable for bidirectional rotation		103
Aethod of coolir	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic	
Net weight of motor (kgs.)		18	Paint shade	RAL 5000	
tet weight of file	Stor (kgs.)	10	Earthing provision (two terminals on stator body)		Yes
earings			Terminal box		103
0	/flexible/Belt &		Terminui box		
ulley/Gearbox)	/nexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing	
	pulley (OD x width) mm	_	Direction of achie antry	As per GA drawing	
menssions of	puncy (OD x widui) IIIII	-	Direction of cable entry	As per GA drawing	
Bearings (roller/	ball/angular contact)	Ball/Ball	Cable size and type(Aluminium)	1R X 3C X 10 SQ MM C 2R X 3C X 6 SQ MM	
5	5	CODC 07 01 / CODC 07 07			· ·
Bearing size DE/	INDE	6206 2Z C3 / 6205 2Z C3	Earthing provision (one terminal in TB)		Yes
ype of lubricati	on	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of	3 / S'	ΓAR / 6
			terminals		
ccessories	an aircratar ( 1				
	ers simplex (w/o controller)		Arrow plate for direction of rotation		
1Ds - I numbe	er per bearing (w/o controller)		Double compression glands (main cable)		
pace heaters - s	ingle phase 50z, 230V		Double compression glands (Space		
			heater/thermisters/RTDs)		
Thermisters - PTC, 1 number per phase			Brake (Type/voltage/torque)		
Additional T-Box for Accessories					
dditional name	piate				
otes:					
		0034-1 tolerances, unless otherwise s			
	-	ted frequency condition and for DOL	starting condition.		
	Load GD <sup>2</sup> assumed wherever no				
)Where starting	time is more than 10 seconds,	provision of heavy duty relays is man	datory.		
	g is mandatory and HP is approx				
	rovided are marked as "YES"				
, p	III IIII IIII III				
				Davas 11	
				Prepared by	
				Approved by	
				Revison	

Project:	Contractor/Client	т	Date:	
Consultant	Package	L		