B Dilarat L	Bijlee	Data sheet	for motors			
Manufacturer	Bharat Bijlee Ltd.		Customer			
Гуре of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.			
Tag no.			Output kW / pole	2.2	/	2P
BBL type tef.	7	L	Frame size		90L	-
Installation deta	uus		Applicable standards (latest edition)			
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck		Industrial safe area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:900 Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	Vibrations: IS 12075			
initiade (meters)			Noise level: IS 12065			
Hazardous area	details	F	Supply conditions and permissible variations (grid	d supply)		
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three		ee
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%		±10%
Temp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%		±5%
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)		±109	%
Approving autho	prity for hazardous area	Not Applicable				
Electrical paran	neters					
Starting perform			1			
Method of startir	9	DOL	Starting current (%FLC)		600	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		280	
Motor GD <sup>2</sup> (kgm		0.0066	Pull out torque (%FLT)		300	)
Load GD <sup>2</sup> (kgm <sup>2</sup> )	)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	16
Load torque-spec	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	3
Starting time at r	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	mance		1			
Efficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./te	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-		
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current		4.33	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (		2835	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque		0.76	Stator/rotor time constant (min)	0.05	84/11	
Efficiency in % a Mechanical part	at FL/0.75FL/0.5FL	83.2 83.2 82.5	Power factor at FL/0.75FL/0.5FL	0.85	0.80	0.70
Mounting	umeters	B5	Mounting dimensions	Ret	fer GA d	trawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Rei	Clocky	0
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
		TEFC (IC 411)		A		
Method of coolin	ng (TEFC/forced cooled/TESC)	IEFC (IC 411)	Paint type	Acrylic		
Net weight of mo	otor (kgs.)	17	Paint shade	RAL 5000		000
			Earthing provision (two terminals on stator body)		Yes	8
Bearings			Terminal box	1		
Coupling (Direct		Direct	Terminal box location when viewed from DE	As	per GA	drawing
Pulley/Gearbox)			Direction of cable entry			drawing
Dimensions of pulley (OD x width) mm			Disclotion of cable entry			Ū
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 4 SQ MM C 2R X 3C X 4 SQ MM		
Bearing size DE/	NDE	6205 2Z C3 / 6205 2Z C3	Earthing provision (one terminal in TB)	2117	Yes	-
			No of phases/Winding connection/number of			
Type of lubrication	ION	LITHIUM SOAP BASE GREASE	terminals	3	/ DELT	IA/6
Accessories						
	ers simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 numbe	er per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - s	single phase 50z, 230V		Double compression glands (Space			
Thermisters - PTC , 1 number per phase			heater/thermisters/RTDs)			
	x for Accessories		Brake (Type/voltage/torque)			
Additional name						
	r ···-	I	1	1		
Notes:	ce values are subject to IS/IEC 6	50034-1 tolerances, unless otherwise s	pecified.			
	values are at rated voltage and ra	ated frequency condition and for DOL	starting condition.			
1)All performance	and s are at rated voltage and re					
1)All performanc 2)Performance v	Load GD <sup>2</sup> assumed wherever no	it mentioned.	datory			
<ol> <li>All performance</li> <li>Performance va</li> <li>Motor GD<sup>2</sup> = I</li> </ol>	Load GD <sup>2</sup> assumed wherever no	provision of heavy duty relays is man	uatory.			
1)All performanc 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting	Load GD <sup>2</sup> assumed wherever no	provision of heavy duty relays is mand	datory.			
1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	Load $GD^2$ assumed wherever no g time is more than 10 seconds,	provision of heavy duty relays is mand	uatory.			
<ul> <li>2)Performance vi</li> <li>3)Motor GD<sup>2</sup> = I</li> <li>4)Where starting</li> <li>5)Kilowatt rating</li> </ul>	Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds, g is mandatory and HP is approx	provision of heavy duty relays is mand	uatory.			
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