Manufacturer	Bijlee		for motors				
	Bharat Bijlee Ltd.		Customer				
Type of motor 3 Phase Induction Motor			BBL Enquiry reference No				
Quantity	CUCTON		Customer P.O.Number				
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	22	1		20
Tag no. BBL type tef.			Output kW / pole Frame size	22	/ 1801	Л	2P
Installation deta	iils		Applicable standards (latest edition)		1001	••	
Area classificatio	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900				
Location: indoor/outdoor/deck Altitude (meters)		Indoor 1000 or less	Dimensions: IS 1231/IS 2223/IS:8223 Vibrations: IS 12075				
Intitude (meters)			Noise level: IS 12065				
Hazardous area	details		Supply conditions and permissible variations (grid	d supply)			-
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases		Thre	-	
Gas group		N.A.	Voltage (Volts) and permisible variation	415		±10%	
Temp.class Type of Explosion protection (FLP/Type		N.A. N.A.	Frequency (Hz) and permissible variation Combined variation (absolute sum)	50	±109	±5%	
'e'/Type 'n') Approving authority for hazardous area		Not Applicable					
Electrical paran	-	Torrippileuole					
Starting perform			1	1			
Method of startir	0	DOL	Starting current (%FLC)		650		
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		240		
Motor GD <sup>2</sup> (kgm	/	0.325	Pull out torque (%FLT)		270		
Load GD <sup>2</sup> (kgm <sup>2</sup> ) Load torque-spee	, ,	CUSTOMER TO FURNISH Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	10	/ 2 / 3	3	20
		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2	2/3			
Starting time at r	mance	DETAILS					
Efficiency class		IE2	Duty and designation	Continuous (S1)		1)	
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 (FLC) amps.		38.5	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage			
Full load speed (rpm)		2940	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable			
Full load torque	(FLT) kg-m at FL/0.75FL/0.5FL	7.29 91.3 91.3 90.0	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	0.87	108/1 0.84		0.78
Mechanical part		91.5 91.5 90.0	Fower factor at FE/0.75FE/0.5FE	0.87	0.64		).70
Mounting		B8	Mounting dimensions	Re	fer GA d	lrawi	ng
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockv		
Degree of protect	tion	IP 55	Suitable for bidirectional rotation		Yes		
Method of coolin	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type		Acryl	ic	
Net weight of mo	ntor (kgs)	171	Paint shade		RAL 5	000	
	(RED.)	1/1	Earthing provision (two terminals on stator body)		Yes		
Bearings			Terminal box				
Coupling (Direct		Direct	Terminal box location when viewed from DE	Δc	per GA	drawi	no
Pulley/Gearbox)		Ditti			-		_
Dimenssions of p	pulley (OD x width) mm	-	Direction of cable entry	As	per GA	drawi	ng
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R	x 3C x 1	-	nm
	AIDE		Earthing provision (one terminal in TB)		Yes		
0	NDE	6310 2Z C3 / 6210 2Z C3	No. of all and AW and the second seco		3 / DELTA / 6		
Bearing size DE/		6310 2Z C3     /     6210 2Z C3       LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	1	3 / DELT	A/6	
Bearing size DE/			No of phases/Winding connection/number of terminals	3	3 / DEL1	A / 6	
Bearing size DE/ Fype of lubricati Accessories					3 / DEL1	A / 6	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe	on ers simplex (w/o controller) er per bearing (w/o controller)		terminals Arrow plate for direction of rotation Double compression glands (main cable)		3 / DELT	IA / 6	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s	on rrs simplex (w/o controller) rr per bearing (w/o controller) ingle phase 50z, 230V		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)		3 / DEL]	IA / 6	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT	on rrs simplex (w/o controller) er per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space		3 / DEL1	IA / 6	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Box	on ers simplex (w/o controller) er per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Boz Additional name	on ers simplex (w/o controller) er per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes:	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V °C , 1 number per phase x for Accessories plate		terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque)		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Votes: 1)All performance	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V °C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes: 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional T-Bo: Additional name Notes: 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes: 1)All performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds,	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes: 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro-	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Votes: 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro-	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		3 / DEL1		
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes: 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro-	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.	Prepared			
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT Additional T-Bo: Additional name Notes: 1)All performance v 3)Motor GD <sup>2</sup> = I 4)Where starting 5)Kilowatt rating	on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro-	LITHIUM SOAP BASE GREASE	terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) specified. starting condition.		by		

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