Manufacturer Type of motor	Bijlee	Data sheet				
	Bharat Bijlee Ltd.		Customer			
	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	55	/	4P
BBL type tef. Installation deta	uils		Frame size Applicable standards (latest edition)		250N	1
Area classificatio	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 Noise level: IS 12065			
Hazardous area			Supply conditions and permissible variations (grid	d supply)		
	on GAS (Zone 1/Zone 2)	N.A.	Number of phases		Three	
Gas group		N.A. N.A.	Voltage (Volts) and permisible variation	415		±10%
	on protection (FLP/Type	N.A.	Frequency (Hz) and permissible variation Combined variation (absolute sum)	50	±10%	±5% %
'e'/Type 'n') Approving authority for hazardous area		Not Applicable				
Electrical paran	5					
Starting perform					_	
Method of startin	0	DOL	Starting current (%FLC)		700	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		260	
Motor GD ² (kgm	,	3.06	Pull out torque (%FLT)		280	
Load GD ² (kgm ²))	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	3
0	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perfor	mance		1	1		
Efficiency class		IE2	Duty and designation	Co	ontinuou	s (S1)
Ambient temp./temp.rise by resistance (deg.C) Enclosure		50 / 70 TEFC (TOTALLY ENCLOSED	CDF/Equivalent starts per hour/FI Insulation class / utilisation class on DOL	- F/B		
F -11.1 4		FAN COOLED) 96.3	Detentions (Continue) Const (Clin.vin.s.)		Consignal (Casa
Full load current (FLC) amps. Full load speed (rpm)		1482	Rotor type (Squirrel Cage/ Slip ring) Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Squirrel Cage Not applicable 108/146		
Full load torque	(FL1) kg-m at FL/0.75FL/0.5FL	<u>36.1</u> 93.5 93.5 92.0	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	0.85	0.80	+0 0.72
Mechanical par		75.5 75.5 72.0		0.05	0.00	0.72
Mounting		B5	Mounting dimensions	Ret	fer GA d	rawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	vise
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic		с
Net weight of mo	otor (lage)	520	Paint shade		RAL 50	000
0	Stor (kgs.)	520	Earthing provision (two terminals on stator body)		Yes	
Bearings	(A) 14.4 (A) 7		Terminal box	Т		
Coupling (Direct	t/flexible/Belt &	Direct	Terminal box location when viewed from DE	As	per GA d	lrawing
Pulley/Gearbox) Dimenssions of r	nulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		
Dimenssions of pulley (OD x width) mm						Ū
•	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3	3C X 12	0 SQ MN
Bearings (roller/l	AIDE	6315 C3 / 6215 C3	Earthing provision (one terminal in TB)	1	Yes	
e .	NDE			3 / DELTA / 6		
Bearing size DE/ Type of lubricati		SKF LGMT3- GREASE	No of phases/Winding connection/number of terminals	3	/ DELT	11/0
Bearing size DE/ Type of lubricati Accessories	on		terminals	3	/ DELT	11/0
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe	on rs simplex (w/o controller)		terminals Arrow plate for direction of rotation	3	/ DELT	
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) Double compression glands (Space	3	5 / DELT	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s	on rs simplex (w/o controller)		terminals Arrow plate for direction of rotation Double compression glands (main cable)	3	5 / DELT	
Bearing size DE/ Type of lubricati Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT	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	/ DELT	
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	/ DELT	
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	on ers simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V ^{IC} , 1 number per phase x for Accessories plate ce values are subject to IS/IEC 6	SKF LGMT3- 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	, / DELT	
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 ² = I	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 ² assumed wherever no	SKF LGMT3- 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	5 / DELT	
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 ² = 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 ² assumed wherever no	SKF LGMT3- 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	/ DELT	
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 ² = 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 ² assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro	SKF LGMT3- 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	- / DELT	
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 ² = 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 ² assumed wherever no g time is more than 10 seconds, g is mandatory and HP is appro	SKF LGMT3- 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.			
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Project:	Contractor/Client	Da	Date:	
Consultant	Package	Da	ale.	