

Manufacturer			Bharat Bijlee Ltd.			Customer		
Type of motor			3 Phase Induction Motor			BBL Enquiry reference No		
Quantity						Customer P.O.Number		
Application			CUSTOMER TO FURNISH			W.O. No. / SAP No.		
Tag no.						Output kW / pole		
BBL type tef.						0.37 / 4P		
Installation details						Frame size		
Area classification (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		
Hazardous area details						Noise level: IS 12065		
Area classification GAS (Zone 1/Zone 2)			N.A.			Supply conditions and permissible variations (grid supply)		
Gas group			N.A.			Number of phases		
Temp.class			N.A.			Voltage (Volts) and permissible variation		
Type of Explosion protection (FLP/Type 'e'/Type 'n')			N.A.			Frequency (Hz) and permissible variation		
Approving authority for hazardous area			Not Applicable			Combined variation (absolute sum)		
Electrical parameters								
Starting performance								
Method of starting			DOL			Starting current (%FLC)		
Load speed (rpm)			CUSTOMER TO FURNISH			Starting torque (%FLT)		
Motor GD ² (kgm ²)			0.0031			Pull out torque (%FLT)		
Load GD ² (kgm ²)			CUSTOMER TO FURNISH			Locked rotor withstand time (hot/cold) (sec)		
Load torque-speed curve			Parabolic TS curve			Number of consecutive starts (hot/cold) (nos.)		
Starting time at rated voltage (sec)			PLEASE FURNISH ALL ABOVE DETAILS			provided Load GD2 = Motor GD2		
Running Performance								
Efficiency class			IE2			Duty and designation		
Ambient temp./temp.rise by resistance (deg.C)			50 / 70			Continuous (S1)		
Enclosure			TEFC (TOTALLY ENCLOSED FAN COOLED)			CDF/Equivalent starts per hour/FI		
Full load current (FLC) amps.			1			Insulation class / utilisation class on DOL		
Full load speed (rpm)			1400			Rotor type (Squirrel Cage/ Slip ring)		
Full load torque (FLT) kg-m			0.26			Rotor voltage/rotor current (RV/RA) (Volts/Amps)		
Efficiency in % at FL/0.75FL/0.5FL			72.7 72.7 70.0			Stator/rotor time constant (min)		
Mechanical parameters						Power factor at FL/0.75FL/0.5FL		
Mounting			B3			0.68 0.58 0.47		
Shaft extention			Single cylindrical			Terminal box		
Degree of protection			IP 55			Refer GA drawing		
Method of cooling (TEFC/forced cooled/TEFC)			TEFC (IC 411)			Direction of rotation viewed from DE		
Net weight of motor (kgs.)			8			Clockwise		
Bearings						Suitable for bidirectional rotation		
Coupling (Direct/flexible/Belt & Pulley/Gearbox)			Direct			Paint type		
Dimensions of pulley (OD x width) mm			-			Acrylic		
Bearings (roller/ball/angular contact)			Ball /Ball			Paint shade		
Bearing size DE/NDE			6202 2Z C3 / 6202 2Z C3			RAL 5000		
Type of lubrication			LITHIUM SOAP BASE GREASE			Earthing provision (two terminals on stator body)		
Accessories						Yes		
RTDs - 3 numbers simplex (w/o controller)						Terminal box location when viewed from DE		
BTDs - 1 number per bearing (w/o controller)						As per GA drawing		
Space heaters - single phase 50z, 230V						Direction of cable entry		
Thermisters - PTC , 1 number per phase						As per GA drawing		
Additional T-Box for Accessories						Cable size and type(Aluminium)		
Additional nameplate						1R X 3C X 4 SQ MM		
Notes:						Earthing provision (one terminal in TB)		
1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.						Yes		
2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.						No of phases/Winding connection/number of terminals		
3)Motor GD ² = Load GD ² assumed wherever not mentioned.						3 / STAR / 6		
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"								
Project:						Prepared by		
Consultant						Approved by		
Contractor/Client						Revision		
Package						Date:		

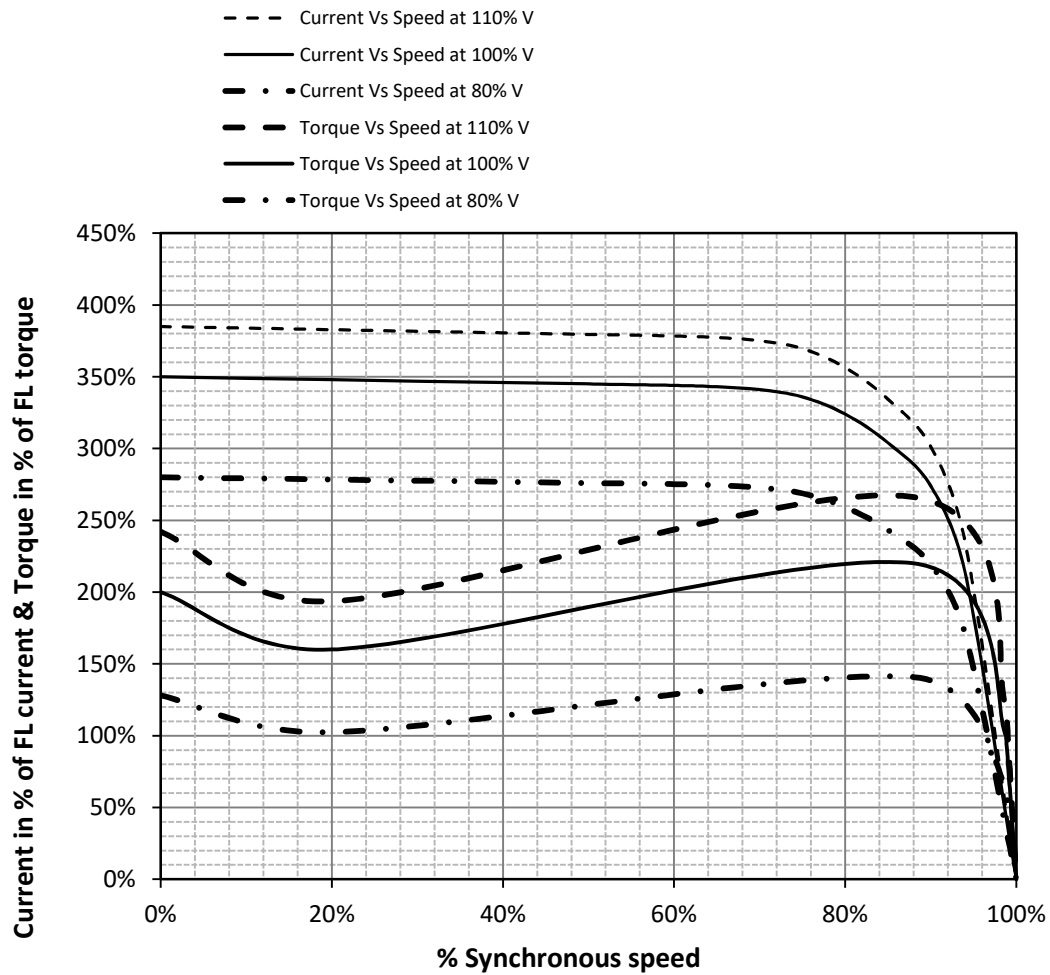
PERFORMANCE CURVES

3 Phase Squirrel Cage Induction Motor

Customer : -	BBL Ref No.: -	Quantity : -
Consultant : -	Tag Nos. : --	
Project : -		

Output (kW)/Poles : 0.37 / 4P	Frame : 71
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Torque & Current Vs Speed Curve



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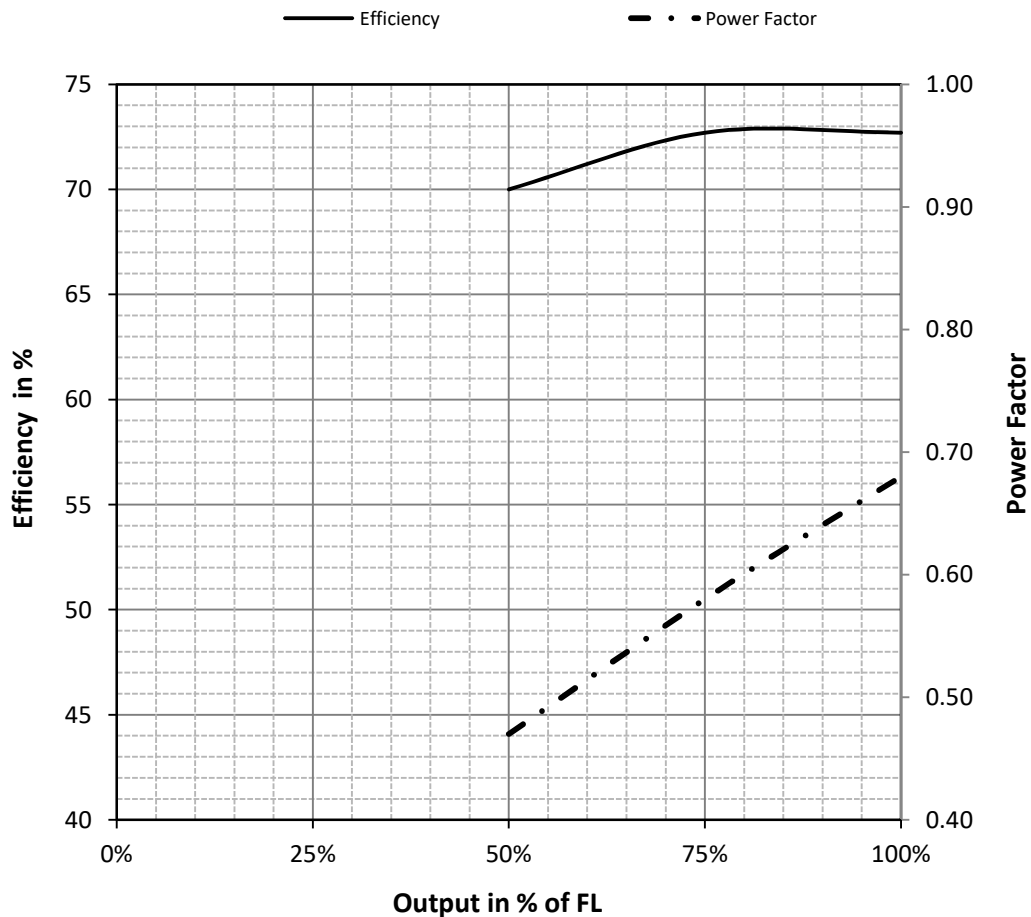
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3 Phase Squirrel Cage Induction Motor

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Efficiency, Power Factor Vs Output Curve



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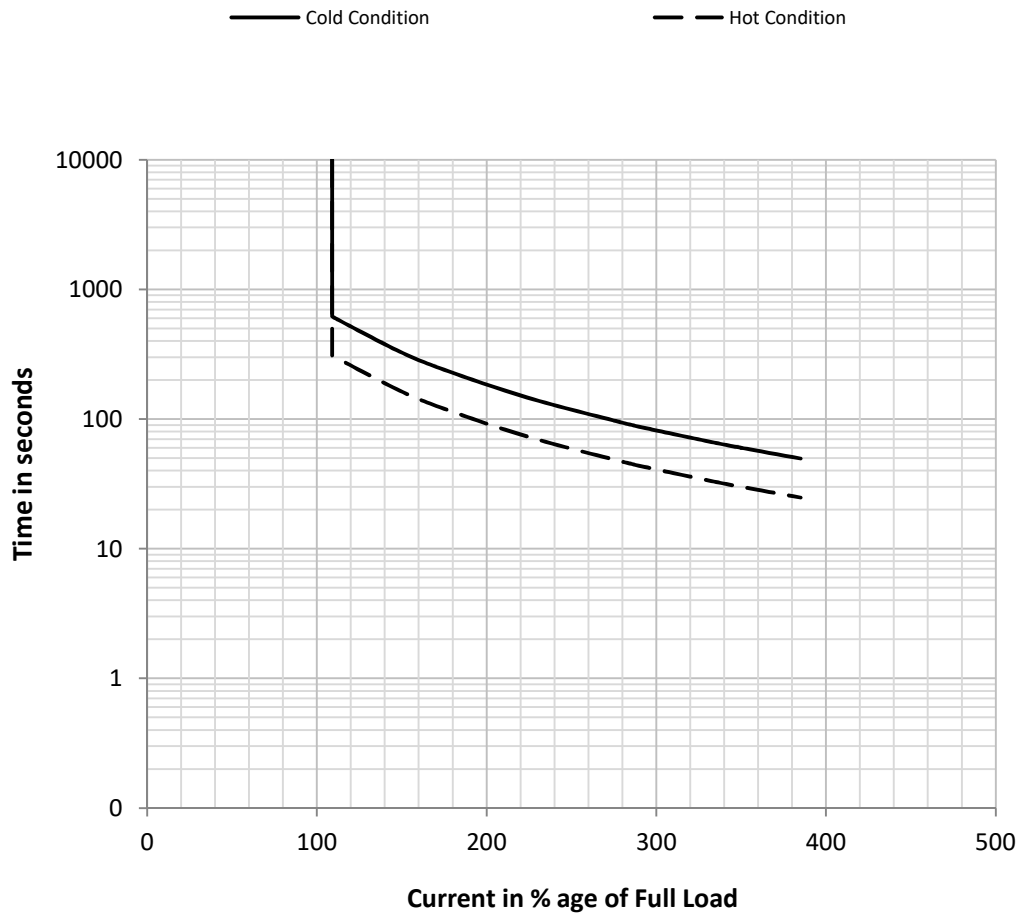
PERFORMANCE CURVES

3 Phase Squirrel Cage Induction Motor

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Thermal Withstand Time Vs Current Curve



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