### Statistical contents Frame size MJ80	Bharat Bijle	5000	Data sheet	for motors	
Page April Page	Manufacturer	Rharat Riilee Ltd		Customer	
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1000 or less	Area classificatio	on (Safe / Hazardous)	Hazardous	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Motors: IS/IEC 60079-
Initiale (meters) 1000 or less Vibrations: IS 12075	Location: indoor/	outdoor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223	
Noise level. IS 12065 Supply conditions and permissible variations (grid supply) Three permissible variations (pariation (pariatio	Altitude (meters)		1000 or less		
rea classification GAS (Zone 1/Zone 2) group lil.A, IIB Voltage (Volts) and permissible variation Frequency (Hz) and permissible variation 50 25% peo of Explosion protection (FLPType Type 'n') If Coal Mine application then DGMS else PESO Combined variation (absolute sum) If Coal Mine application then DGMS else PESO Combined variation (absolute sum) If Coal Mine application then DGMS else PESO Combined variation (absolute sum) If Coal Mine application then DGMS else PESO CUSTOMER TO FURNISH Surring current (%FLC) Souther of PURNISH Surring current (%FLC) Souther Of PURNISH And torque-speed curve Panabole TS curve Panabole TS curve PLEASE FURNISH ALL ABOVE DETAILS TEPE (TOTALLY ENCLOSED) Intended representation (FLC) sumps. 10 and GD (Lange) 11 and current (FLC) sumps. 12 and speed (FLD) speed (FLD) speed 13 and speed (FLD) speed 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Not applicable 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Rober speed (Furni) 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Rober speed (Furni) 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Rober speed (Furni) 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Rober voltage/rofor current (RVRA) (Volts/Amps) Not applicable 1415 Rober voltage/rofor current (RVRA) (Volts/Amps) Rober				Noise level: IS 12065	
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The class of Frequency (Hz) and permissible variation of 50 ±5% provided provided for the provided pro	Area classification	on GAS (Zone 1/Zone 2)	ZONE I		
mpc.class T6	Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415 ±10%
page of Explosion protection (FLP/Type Type 's') If Coal Mine application then DGMS else PESO FESO Dot Starting current (%FLC) 500	Temp.class		T6		50 ±5%
Type (r) Commence variation (assoutic sum) 11079 Type (r) Customer To Furnish 11070 Turnish (r) Customer To Furnish 11070 Tur	Type of Explosio	on protection (FLP/Type		• • • •	
peroving authority for hazardous area DGMS clae PESO BOL Starting current (%FLC) 500 and speed (rpm) CUSTOMER TO FURNISH 0.0061 Pall out torque (%FLT) 240 and fOp*(ggm*) CUSTOMER TO FURNISH cost Op* Parabolic TS curve Parabolic TS curve Parabolic TS curve Parabolic TS curve PLEASE FURNISH ALL ABOVE DETAILS TEC (TOTALLY ENCLOSED) FAN COOLED) TEC (TOTALLY ENCLOSED) FAN COOLED) To parabolic through (%FLT) 1 240 2 40 2 43 2 73 TOTALLS TEC (TOTALLY ENCLOSED) FAN COOLED) To parabolic through (%FLT) 1 240 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	e'/Type 'n')		Ex d	Combined variation (absolute sum)	±10%
CUSTOMER TO FURNISH Starting current (%FLC) 500 Starting towns of starting Startin		rity for hazardous area			
ethod of starting and speed (rpm)	Electrical param	neters	DGMS else PESO		
ethod of starting and speed (rpm)					
cust speed (rpm) cust of GP (kgm²) cust of GP (k	Method of startin		DOL	Starting current (%FLC)	500
Description of the Color (Signs) Outs Pall out torque (%FLT) 260	Load speed (rpm		CUSTOMER TO FURNISH	8 ,	240
CUSTOMER TO FURNISH Locked rotor withstand time (hot/cold) (sec) 30 / 60					
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arting time at rated voltage (sec) DETAILS	Load torque-speed curve		Parabolic TS curve		2/3
Indicate the properties IE2	Starting time at ra	ated voltage (sec)			
Time	Running Perfor	mance	DETAILS		
mbient temp./temp.rise by resistance (deg.C) 45 / 75 TEFC (TOTALLY ENCLOSE) FAN COOLED) Insulation class / utilisation class on DOL F/B Rotor type (Squirrel Cage/ Slip ring) Squirrel Cage Ill load current (FLC) amps. 0.96 Rotor type (Squirrel Cage/ Slip ring) Not applicable Ill load torque (FLT) kg-m 0.25 Stator/rotor time constant (min) 90/122 Reciency in % at FL/0.75FL/0.5FL 72.7 72.7 67.7 Power factor at FL/0.75FL/0.5FL 0.74 0.68 0.5 Refer GA drawing afte extention Single cylindrical Direction of rotation viewed from DE Clockwise gree of protection IP 55 Suitable for bidirectional rotation Yes ethod of cooling (TEFC/forced oled/TESC) 17 Ferminal box 18 Paint shade 18 Farthing provision (two terminals on stator body) Yes 18 Paint shade 18 Ferminal box 18 Paint shade 18 Ferminal box location when viewed from DE 18 Sparings 18 Ferminal box 18 Sparings 18 Ferminal box location when viewed from DE 18 Sparings 18 Ferminal box 18 Sparings 18 Ferminal box location when viewed from DE 19 Ferminal box 19 Ferminal box 10 Ferminal box 10 Ferminal box location when viewed from DE 19 Ferminal box 10 Ferminal b			IE2	Duty and designation	Continuous (S1)
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id load current (FLC) amps. 0.96 Rotor type (Squirrel Cage' Slip ring) Squirrel Cage and Idea of urrent (FLC) amps. 1415 Rotor voltage/rotor current (RV/RA) (Volts/Amps) Not applicable	motent temp./te	imp.rise by resistance (deg.c)	, , , , , , , , , , , , , , , , , , , ,	•	
Mil load speed (rpm) 1415 Rotor voltage/rotor current (RV/RA) (Volts/Amps) Not applicable 18 18 18 18 18 18 19 19	Enclosure		FAN COOLED)		
As per GA drawing size DE/NDE C204 2Z C3 G204 2Z C3		· / •			1 0
Riciency in % at FLO.75FLO.5FL 72.7 72.7 67.7 Power factor at FLO.75FLO.5FL 0.74 0.68 0.5 echanical parameters B5					
cechanical parameters ounting B5 Mounting dimensions Refer GA drawing and extention Single cylindrical Direction of rotation viewed from DE Clockwise gree of protection IP 55 Suitable for bidirectional rotation Yes ethod of cooling (TEFC/forced oloed/TESC) et weight of motor (kgs.) TEFC (IC 411) Paint type Acid Alkali Proof oloed/TESC) et weight of motor (kgs.) Terminal box Terminal box Terminal box Terminal box location when viewed from DE As per GA drawing law/Gearbox) Terminal box location when viewed from DE As per GA drawing law/Gearbox) Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal size DE/NDE As per GA drawing law/Gearbox Terminal size DE/NDE As per GA drawing law/Gearbox Terming size DE/NDE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal box location when viewed from DE As per GA drawing law/Gearbox Terminal bo			1 1		
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Arrow plate for direction of rotation Double compression glands (main cable)	Bearing size DE/	NDE	6204 2Z C3 / 6204 2Z C3	Earthing provision (one terminal in TB)	Yes
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Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.	2)Performance va	alues are at rated voltage and ra	ated frequency condition and for DOL	starting condition.	
Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.	3)Motor $GD^2 = I$	Load GD ² assumed wherever n	ot mentioned.		
				datory.	
ixiiowan ranng is mandanory and the is approximant.	,				

- S)Kilowatt rating is mandatory and HP is approx
 Accessories provided are marked as "YES" 7) Unused cable entry must be filled with suitably certified stopping plugs.

			Prepared by	
			Approved by	
			Revison	
Project:		Contractor/Client	Date:	
Consultant]	Package	Date.	



PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

					Ref No.: Nos. :	- 		Quanti	ty : -
oles :	0.37	/ 4P			Frame :	MJ80			
	- - -	Current Current Current	Vs Speed at Vs Speed at Vs Speed at	110% V 100% V 80% V	/s Spee	ed Curve			
	_								
500% 7	_	• • Torque	Vs Speed at	80% V	1 1				
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300% -							_ = =		
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100% -						7			\
0% -	%	20%		40%		60%	809	%	100%
4	500% - 500% - 400% - 200% -	500%	Torque	Torque & Cul Current Vs Speed at Current Vs Speed at Current Vs Speed at Torque Vs Speed at - Torque Vs Speed at Tor	Torque & Current \\	Torque & Current Vs Speed Current Vs Speed at 110% V Current Vs Speed at 100% V Current Vs Speed at 80% V Torque Vs Speed at 110% V - Torque Vs Speed at 100% V Torque Vs Speed at 80% V - 100%	Torque & Current Vs Speed Curve Current Vs Speed at 110% V Current Vs Speed at 100% V Current Vs Speed at 80% V Torque Vs Speed at 110% V Torque Vs Speed at 110% V Torque Vs Speed at 80% V	Torque & Current Vs Speed Curve Current Vs Speed at 110% V Current Vs Speed at 100% V Current Vs Speed at 80% V Torque Vs Speed at 110% V Torque Vs Speed at 100% V Torque Vs Speed at 80% V Torque Vs Speed at 80% V Torque Vs Speed at 80% V	Torque & Current Vs Speed Curve Current Vs Speed at 110% V Current Vs Speed at 110% V Current Vs Speed at 100% V Current Vs Speed at 100% V Torque Vs Speed at 110% V Torque Vs Speed at 100% V Torque Vs Speed at 80% V Torque Vs Speed at 80% V Torque Vs Speed at 80% V

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Rev No.	Prepared By	Checked By	Date



PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

	liaiat	Diffee	3 Phase Squirrel Cage Induction Motor									
Customer : Consultant : Project : -	-				BBL Re Tag No	ef No.: - os. :	-		C	Quantity	: -	
Output (kW)/Poles :	0.37	/ 4P		Fr	rame : N	V 180					
		Ef	fficienc	cy, Power	Factor \	Vs Outp	out Cu	rve				
				Efficiency		_	• • Pow	er Factor				
	75									1.00		
	70									0.90		
	65									- 0.80		
Efficiency in %	60									- 0.70	Power Factor	
Efficie	55										Pow	
	50					•				0.60		
	45									0.50		
	40 0%		25%		50%		75%		100	- 0.40)%		
				Outnu	t in % of	CI .						

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Rev No.	Prepared By	Checked By	Date		



PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

B Bliarat Bijlee				3 Phase Squirrel Cage Induction Motor					
ustomer : - onsultant : - roject : -					Ref No.: - Nos. :		Quantit	y: -	
utput (kW)/Pc	oles :	0.37	/ 4P		Frame : MJ8	30			
				Thermal Wi Vs Curre	ithstand Ti ent Curve	me			
			—— Colo	d Condition		— — Hot Co	ndition		
	10000								
	1000								
Time in seconds	100								
Time	10								
	1								
	0								
		0	100	200	300	400 Full Load	500	600	
				Current	in % age of I	ruii LUdu			

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Rev No.	Prepared By	Checked By	Date		