Location: indoor Altitude (meters) Hazardous area Area classificatio Gas group Temp.class	ils on (Safe / Hazardous) outdoor/deck	ER TO FURNISH Industrial safe area Indoor	Customer BBL Enquiry reference No Customer P.O.Number W.O. No. / SAP No. Output kW / pole Frame size Applicable standards (latest edition) Performance: IS/IEC 60034-1 Maintenance IS:900	0.37	1	
Quantity Application Tag no. BBL type tef. Installation deta Area classification Location: indoor Altitude (meters) Hazardous area Area classification Gas group Temp.class	CUSTOMI ils on (Safe / Hazardous)	Industrial safe area Indoor	Customer P.O.Number W.O. No. / SAP No. Output kW / pole Frame size Applicable standards (latest edition)	0.37		
Application Tag no. BBL type tef. Installation deta Area classification Location: indoor Altitude (meters) Hazardous area Area classificatio Gas group Temp.class	ils on (Safe / Hazardous) outdoor/deck	Industrial safe area Indoor	W.O. No. / SAP No. Output kW / pole Frame size Applicable standards (latest edition)	0.37		
Tag no. BBL type tef. Installation deta Area classification Location: indoor Altitude (meters) Hazardous area Area classification Gas group Femp.class	ils on (Safe / Hazardous) outdoor/deck	Industrial safe area Indoor	Output kW / pole Frame size Applicable standards (latest edition)	0.37		1
BBL type tef. Installation deta Area classification Location: indoor Altitude (meters) Hazardous area Area classification Gas group Femp.class	on (Safe / Hazardous) outdoor/deck	Indoor	Frame size Applicable standards (latest edition)	0.37	/	
Area classification deta Area classification indoor Altitude (meters) Hazardous area Area classification Gas group Femp.class	on (Safe / Hazardous) outdoor/deck	Indoor	Applicable standards (latest edition)			4P
Area classification: indoor Altitude (meters) Hazardous area Area classification Gas group Femp.class	on (Safe / Hazardous) outdoor/deck	Indoor			71	
Location: indoor Altitude (meters) Hazardous area Area classificatio Gas group Femp.class	outdoor/deck	Indoor	Performance: IS/IEC 60034 1 Maintananca IS:000			
Altitude (meters) Hazardous area Area classification Gas group Femp.class						
Hazardous area Area classification Gas group Temp.class	details		Dimensions: IS 1231/IS 2223/IS:8223			
Area classifications Gas group Gemp.class	dotails	1000 or less	Vibrations: IS 12075			
Area classifications Gas group Gemp.class			Noise level: IS 12065 Supply conditions and permissible variations (grid	(cunnlu)		
Gas group Femp.class	on GAS (Zone 1/Zone 2)	N.A.	Number of phases	suppiy)	Three	
Temp.class	in Grib (Zone 1/Zone 2)	N.A.	Voltage (Volts) and permisible variation	415		0%
		N.A.	Frequency (Hz) and permissible variation	50		5%
Type of Explosion	n protection (FLP/Type			30		
e'/Type 'n')	in protection (FET/Type	N.A.	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		Not Applicable				
Electrical paran	eters	1				
Starting perforn						
Method of starting		DOL	Starting current (%FLC)		350	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
Motor GD ² (kgn		0.0031	Pull out torque (%FLT)		220	
Load GD ² (kgm ²		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	- 50	2/3	
Starting time at r	ated voltage (sec)	PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2			
Running Perfor		DETAILS				
Efficiency class	nunce	IE2	Duty and designation	(Continuous	(S1)
	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI		-	(51)
Enclosure	imprise by resistance (deg.e)	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL		F/B	
Full load current	(FLC) amps	1	Rotor type (Squirrel Cage/ Slip ring)		Squirrel Ca	nge.
Full load speed (• / •	1400	Rotor voltage/rotor current (RV/RA) (Volts/Amps)		Not applica	
Full load torque		0.26	Stator/rotor time constant (min)		72/97	
	t FL/0.75FL/0.5FL	72.7 72.7 70.0	Power factor at FL/0.75FL/0.5FL	0.68	0.58	0.47
Mechanical par		,				
Mounting		В3	Mounting dimensions	R	efer GA dra	wing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protec	tion	IP 55	Suitable for bidirectional rotation	Yes		-
Method of coolin	g (TEFC/forced	TEFC (IC 411)	Paint type		Acrylic	
Net weight of motor (kgs.)		8	Paint shade	RAL 5000		
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			-
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
Dimenssions of pulley (OD x width) mm		-	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	1R	X 3C X 4 S	Q MM
Bearing size DE	NDE	6202 2Z C3 / 6202 2Z C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / STAR / 6		6
Accessories		I	VVA AAAAAAAAA			
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
	per bearing (w/o controller)		Double compression glands (main cable)			
	ingle phase 50z, 230V		Double compression glands (Space			
Thermisters DT	C, 1 number per phase		heater/thermisters/RTDs) Brake (Type/voltage/torque)			
	for Accessories		Diake (Type/voltage/torque)			
Additional name						
Notes:		I.	1			

- 1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified.
 2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.
- 3)Motor GD^2 = Load GD^2 assumed wherever not mentioned. 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"

		Pre	epared by	
		Ap	proved by	
		Re	vison	
Project:	Contractor/Client	Da	uto:	
Consultant	Package	Da	iic.	



PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

mer : Iltant : ct : -	-					BBL R Tag N	ef No.: os. :	- 			Q	uanti	ty: -
ıt (kW)	/Poles :	0.37	/ 4P			F	rame :	71					
		- - - -	Curi Curi Toro	rque & rent Vs Sprent Vs Sprent Vs Spque Vs Sp	eed at 13 eed at 10 eed at 80 eed at 11 eed at 10	10% V 00% V 0% V 0% V	s Spee	ed Cui	rve				
	450%												
rdne	400%			-+		+							
FL to	350%									<u>``</u>			
ı % of	300%							ļ					
que ir	250%									>-	.		1
& Tor	200%												1, 1
Current in % of FL current & Torque in % of FL torque	150%									-		 	11/1
FL cu	100%												\
n % of	50%							İ					
rent i	0%												
Cur	(0%	20)%	4	10%		60%		80)%		100%

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Rev No.	Prepared By	Checked By	Date



PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

				3 PN	ase Squirre	cage indu	ction iviot	or ————
Customer : Consultant Project : -				BBL Ro Tag No	ef No.: - os. :		Quantity	-
Output (kW)/Poles :	0.37	/ 4P	F	rame: 71			
		Ei	fficiency, P	ower Factor V		Curve ower Factor		
	75 —			- 			1.00	
	70							
	65							
"ui	60						- 0.80	ctor
Efficiency in %	55						- 0.70	Power Factor
ù	50						- 0.60	
	45							
	40						0.40	
	0%		25% C	50% Output in % of	75% FL	%	100%	

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PERFORMANCE CURVES 3 Phase Squirrel Cage Induction Motor

6 5 11 a	at Dijice		3 Phase Squirrel Cage Induction Motor				
ustomer : - onsultant : - roject : -			BBL Ref No Tag Nos. :	.: -	Quant	ity: -	
utput (kW)/Poles	s: 0.37	/ 4P	Frame	: 71			
			rmal Withsta Vs Current C				
		Cold Condit	ion	— — н	ot Condition		
10	0000						
<u> </u>	1000						
Time in seconds	100	1,					
Time ir	10						
	1						
	0 0	100	200	300	400	500	
	-			ge of Full Load			

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Rev No.	Prepared By	Checked By	Date