

TEC ELECTRIC MOTORS LTD					 www.tecmotors.co.uk	
Data Sheet				No.		
Three Phase Induction Motor				Drawing No.	Y2-400-2 B3	
Customer :						
Client reference:						
Type:		IE3 400-2 500kW 400/690V 50Hz				
Brand :		TEC				
Identification						
Frame:	400 mm	Insulation Class:	F			
Output:	500 kW	Temperature Rise:	80K			
Frequency:	50 Hz	Service Factor:	1.0			
Poles:	2 P	Duty:	S1			
Rated Speed:	2990 rpm	Ambient Temperature:	-20~40°C			
Slip:	0.33 %	Altitude:	1000m			
Rated Voltage:	400 / 690 V	Protection Degree:	IP55			
Connection:	△/Y	Cooling:	IC411			
Rated Current:	846 / 491 A	Mounting:	IM B3			
Rotor Voltage:		Vibration:	2.8 mm/s			
Connection:		Approx. Weight:	3340 kg			
Rotor Current:		Moment of Inertia:	9.6 kg/m2			
Locked Rotor Current:	750 %	Noise Level (Lp) :	98 dB(A)			
No Load Current:		Direction of Rotation:	Both			
Rated Torque:	1597.0 Nm	Starting Method:	DIRECT ON LINE			
Locked Rotor Torque:	150 %	Coupling:	DIRECT			
Breakdown Touque:	200 %	Load Type:	PARABOLIC CURVE			
Performance				Bearing Information		
Output	50%	75%	100%		DE	NDE
Efficiency(%):	92.9	95.8	95.8	Bearing :	6220C3	6220C3
				Regreasing int, (h)	2000	2000
Power Factor:	0.76	0.85	0.89	Grease amount (g)	30	30
				Grease-PolyrexEM	CALTEX SRI-2	CALTEX SRI-2
Notes / Accessories				Deviation Sheet		
				TEC		Customer
With winding PTC150°C 3 PCS						
With bearing PT100 2 PCS						
With space heater 230V						
Standards				PRELIMINARY DOCUMENT		
Specification		IEC60034-1				
Test	IEC60034-2					
Noise	IEC60034-9					
Vibration	IEC60034-14					
Edition						
Performed	Checked		Date			
Item	Changes			Performed	Checked	Date