



Product Information Packet

EM2531T-G

25HP,1775RPM,3PH,60HZ,284T,4050M,OPSB,F1

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX806	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	40E246	Layout:	40LYE246	Poles:	04	Created Date:	11-19-2020
Base:	RG	Eff. Date:	04-07-2022	Leads:	9#10	Y	

Specs			
Catalog Number:	EM2531T-G	Insulation Class:	H
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	284T	KVA Code:	G
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	25.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4050M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	82
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	64.000 A @ 208.0 V	Shaft Ground Indicator:	Shaft Grounding

	60.000 A @ 230.0 V	Shaft Rotation:	Reversible
	30.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	EM2531T-G			P/N				ENCL	OPSB	
SPEC.	40E246X806G1		CC	010A	FRAME	284T		SER.NO.		
HP	25			CLASS	H	HZ	60			
RPM	1775			PH	3	DES	A			
VOLTS	230/460			CODE	G	ODE BRG	6309	DE BRG	6311	
AMPS	60/30			USABLE AT 208V	64					
RATING	40C AMB-CONT			NEMA-NOM-EFF	93.6	GREASE	POLYREX EM			
PF	82	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)					
USABLE AT	50HZ 25HP 190/380V 72/36A				SF1.0					
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 86830

Typical performance - not guaranteed values

Winding: 40WGX806-R002				Type: 4050M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25		Full Load Torque		73.81 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		60/30		Breakdown Torque		232 LB-FT		
R.P.M.		1775		Pull-up Torque		116 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		133 LB-FT		
NEMA Design Code		A		KVA Code	G	Starting Current		192 A
Service Factor (S.F.)		1.15		No-load Current		12.6 A		
NEMA Nom. Eff.		93.6	Power Factor	82	Line-line Res. @ 25°C		0.35407 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C		
S.F. Amps				Temp. Rise @ S.F. Load		34°C		
				Locked-rotor Power Factor		35		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	82	85	85	84
Efficiency	89.4	93.1	93.8	93.6	93	92.1	93.2
Speed	1794.8	1789.5	1783.7	1777.6	1771	1763.2	1774
Line amperes	14.5	18.6	24.1	30.3	37.2	44.6	34.4

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





