



Product Information Packet

EM2539T

40HP,1770RPM,3PH,60HZ,324T,4064M,OPSB,F1

Part Detail							
Revision:	AD	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX166	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	40J002	Layout:	40LYJ002	Poles:	04	Created Date:	10-22-2010
Base:	RG	Eff. Date:	02-11-2021	Leads:	9#8		

Specs			
Catalog Number:	EM2539T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	324T	KVA Code:	H
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	40.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 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:	4064M
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:	99.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding

	98.000 A @ 230.0 V	Shaft Rotation:	Reversible
	49.000 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.	EM2539T			P/N				ENCL	OPSB
SPEC.	40J002X166G1		CC	010A	FRAME	324T		SER.NO.	
HP	40		CLASS	F	HZ	60			
RPM	1770		PH	3	DES	A			
VOLTS	230/460			CODE	H		ODE BRG	6309	DE BRG
AMPS	98/49		USABLE AT 208V	99					
RATING	40C AMB-CONT			NEMA-NOM-EFF	94.1		GREASE	POLYREX EM	
PF	82	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)				
USABLE AT	50HZ 40HP 190/380V 114/57A				SF 1.0				
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 31313

Typical performance - not guaranteed values

Winding: 40WGX166-R002			Type: 4064M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		119 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		98/49	Breakdown Torque		427 LB-FT		
R.P.M.		1770	Pull-up Torque		187 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		246 LB-FT		
NEMA Design Code		A KVA Code	Starting Current		330 A		
Service Factor (S.F.)		1.15	No-load Current		21.1 A		
NEMA Nom. Eff.		94.1 Power Factor	82		Line-line Res. @ 25°C		0.16236 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps				Temp. Rise @ S.F. Load		51°C	
				Locked-rotor Power Factor		31.9	
				Rotor inertia		5.09 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	82	85	85	84
Efficiency	91.1	94	94.5	94.2	93.6	92.8	93.8
Speed	1792.4	1785	1777.8	1770.2	1762.1	1752.8	1765
Line amperes	24.1	30.7	39.2	48.7	59.3	71.3	55.1

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values





