



Product Information Packet

EM2542T

50HP,3525RPM,3PH,60HZ,324TS,4058M,OPSB,F

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGW803	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	40E213	Layout:	40LYE213	Poles:	02	Created Date:	10-22-2010
Base:	RG	Eff. Date:	10-22-2021	Leads:	9#8		

Specs			
Catalog Number:	EM2542T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	324TS	IP Rating:	NONE
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	50.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
Agency Approvals:	CSA	Motor Type:	4058M
	CSA EEV	Mounting Arrangement:	F1
	UR	Power Factor:	90
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	56.000 A @ 460.0 V	Shaft Extension Location:	Pulley End

	124.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	112.000 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3554LUA

CAT.NO.	EM2542T			P/N				ENCL	OPSB			
SPEC.	40E213W803G1		CC	010A		FRAME	324TS		SER.NO.			
HP	50		CLASS	F		HZ	60					
RPM	3525		PH	3		DES	A					
VOLTS	230/460			CODE	G		ODE BRG	6309		DE BRG	6312	
AMPS	112/56			USABLE AT 208V	124							
RATING	40C AMB-CONT			NEMA-NOM-EFF	93		GREASE	POLYREX EM				
PF	90		SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 50HP 190/380V 138/69A					SF 1.0						
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 52622

Typical performance - not guaranteed values

Winding: 40WGW803-R005				Type: 4058M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		74.7 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		112/56		Breakdown Torque		168 LB-FT	
R.P.M.		3525		Pull-up Torque		115 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		135 LB-FT	
NEMA Design Code		A	KVA Code	G	Starting Current		376 A
Service Factor (S.F.)		1.15		No-load Current		14.2 A	
NEMA Nom. Eff.		93	Power Factor	90	Line-line Res. @ 25°C		0.1415 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C	
S.F. Amps				Temp. Rise @ S.F. Load		60°C	
				Locked-rotor Power Factor		23.2	
				Rotor inertia		2.49 LB-FT2	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	83	88	90	90	90	90
Efficiency	92.9	94.4	94.1	93.3	92.2	90.5	92.6
Speed	3581.7	3565.2	3545.9	3526.6	3505.2	3475.1	3514
Line amperes	20	30.4	42.8	56.3	70.7	89.9	64.9

Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





