



Product Information Packet

EM2540T

40HP,1180RPM,3PH,60HZ,364T,4278M,OPSB,F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	42GW920	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	42F100	Layout:	42LYF100	Poles:	06	Created Date:	03-30-2022
Base:	RG	Eff. Date:	08-22-2022	Leads:	9#8		

Specs			
Catalog Number:	EM2540T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Not Inverter
Frame:	364T	KVA Code:	H
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	40.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Synchronous Speed @ Frequency:	1200 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:	4278M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	79
	UR	Product Family:	General Purpose
Auxiliary Box:	No Auxiliary Box	Pulley End Bearing Type:	Ball
Auxiliary 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:	51.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	110.000 A @ 208.0 V	Shaft Rotation:	Reversible
	104.000 A @ 230.0 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 NP2138LUA

CAT.NO.	EM2540T		P/N			ENCLOSURE	OPSB	
SPEC.	42F100W920G1		CC	010A		FRAME	364T	
HP	40		CLASS	F		HZ	60	
RPM	1180		PH	3		DES	A	
VOLT	230/460		KVA-CODE	H		ODE BRG	6311	
AMP	104/51		USABLE AT 208V	110		DE BRG	6313	
RATING	40C AMB-CONT		GREASE	POLYREX EM				
NEMA-NOM-EFF	94.1	PF	79	SER.F.	1.15			
HTR-VOLTS	50HZ 40HP 190/380V 120/60A		HTR-AMPS		SF 1.0			

AC Induction Motor Performance Data

Record # 34461

Typical performance - not guaranteed values

Winding: 42WGW920-R001			Type: 4278M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		178 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		104/51	Breakdown Torque		521 LB-FT		
R.P.M.		1180	Pull-up Torque		232 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		317 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		337 A
Service Factor (S.F.)		1.15		No-load Current		21.9 A	
NEMA Nom. Eff.		94.1	Power Factor	79	Line-line Res. @ 25°C		0.154 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps				Temp. Rise @ S.F. Load		50°C	
				Locked-rotor Power Factor		28	
				Rotor inertia		14.9 LB-FT2	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	64	74	79	81	82	80
Efficiency	89.3	93.1	94.1	94.1	93.3	92.2	93.6
Speed	1195	1191	1187	1183	1177	1170	1179
Line amperes	24.8	31.6	40.5	50.9	62.2	77.5	57.7

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





