



Product Information Packet

EM4109T

40HP,3530RPM,3PH,60HZ,324TS,1058M,TEFC,F

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY652	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10F371	Layout:	10LYF371	Poles:	02	Created Date:	05-31-2018
Base:	RG	Eff. Date:	07-12-2022	Leads:	9#8		

Specs			
Catalog Number:	EM4109T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324TS	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	40.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	1058M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	90
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	100.000 A @ 208.0 V	Shaft Rotation:	Reversible
	45.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
	90.000 A @ 230.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3443LUA

CAT.NO.	EM4109T			CUST. P/N				ENCL	TEFC	
SPEC.	10F371Y652G1		CC	010A	FRAME	324TS		SER.NO.		
HP	40		CLASS	F	HZ	60				
R.P.M.	3530		PH.	3	DES.	A				
VOLTS	230/460			CODE	H		ODE BRG	6309	DE BRG	6312
AMPS	90/45			USABLE AT 208V	100					
RATING	40C AMB-CONT			NEMA NOM. EFF.	92.4		GREASE	POLYREX EM		
P.F.	90		SER.F.	1.15		CT6-60H(10:1)VT3-60H(20:1)				
USABLE AT	50Hz 40HP 190/380V 110/55A				1.0SF					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 30898

Typical performance - not guaranteed values

Winding: 10WGY652-R001				Type: 1058M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40		Full Load Torque		59.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		90/45		Breakdown Torque		197 LB-FT	
R.P.M.		3525		Pull-up Torque		85.4 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1.15		No-load Current		12 A	
NEMA Nom. Eff.		92.4		Power Factor		90	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						78°C	
						Temp. Rise @ S.F. Load	
						97°C	
						Locked-rotor Power Factor	
						23	
						Rotor inertia	
						2.49 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	88	90	90	91	90
Efficiency	90.7	93.4	93.7	93.2	92.4	91.1	92.7
Speed	3583.2	3567.3	3549.7	3530.6	3511.2	3484.5	3519
Line amperes	16.3	24.7	34.3	45.1	56.3	70.6	51.8

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





