

BALDOR® • RELIANCE

Product Information Packet

EM4109T

40HP,3530RPM,3PH,60HZ,324TS,1240M,TEFC,F

Part Detail

Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY292	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12H11	Layout:	12LYH011	Poles:	02	Created Date:	05-06-2010
Base:	RG	Eff. Date:	09-18-2017	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
Output @ Frequency:	40.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1240M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	88
	CSA	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:	100.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	46.000 A @ 460.0 V	Shaft Rotation:	Reversible
	92.000 A @ 230.0 V	Shaft Slinger Indicator:	Shaft 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
		Winding Thermal 2:	None

Nameplate NP3443LUA										
CAT.NO.	EM4109T			CUST. P/N				ENCL	TEFC	
SPEC.	12H011Y292G1		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	6311	DE BRG	6312
AMPS	92/46			USABLE AT 208V	100					
RATING	40C AMB-CONT			NEMA NOM. EFF.	92.4		GREASE	POLYREX EM		
P.F.	88		SER.F.	1.15		CT6-60H(10:1)VT3-60H(20:1)				
USABLE AT	50Hz 40HP 190/380V 108/54A				SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 31684 - Typical performance - not guaranteed values

Winding: 12WGY292-R001	Type: 1240M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	40			Full Load Torque	59.2 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	92/46			Breakdown Torque	230 LB-FT
R.P.M.	3530			Pull-up Torque	78.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	108 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	305 A
Service Factor (S.F.)	1.15			No-load Current	13.7 A
NEMA Nom. Eff.	92.4	Power Factor	88	Line-line Res. @ 25°C	0.15743 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	65°C
S.F. Amps				Temp. Rise @ S.F. Load	78°C
				Locked-rotor Power Factor	21.5
				Rotor inertia	3.13 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	86	88	89	89	89
Efficiency	87.1	91.6	92.6	92.6	92.1	91.3	92.3
Speed	3585.4	3571.9	3557.9	3543.1	3526.6	3509.7	3533
Line amperes	18	26.1	35.6	46	57.4	69.2	52.8

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





