



Product Information Packet

EM4110T

40HP,1775RPM,3PH,60HZ,324T,1254M,TEFC,F1

Part Detail							
Revision:	Z	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY276	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12H13	Layout:	12LYH013	Poles:	04	Created Date:	05-06-2010
Base:	RG	Eff. Date:	02-16-2022	Leads:	9#8		

Specs			
Catalog Number:	EM4110T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324T	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:	1800 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:	1254M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	82
	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:	102.000 A @ 208.0 V	Shaft Rotation:	Reversible
	48.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
	96.000 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.	EM4110T			CUST. P/N				ENCL	TEFC	
SPEC.	12H013Y276		CC	010A		FRAME	324T		SER.NO.	
HP	40		CLASS	F		HZ	60			
R.P.M.	1775		PH.	3		DES.	A			
VOLTS	230/460			CODE	H		ODE BRG	6311	DE BRG	6312
AMPS	96/48			USABLE AT 208V	102					
RATING	40C AMB-CONT			NEMA NOM. EFF.	94.1		GREASE	POLYREX EM		
P.F.	82		SER.F.	1.15		CT6-60H(10:1)VT3-60H(20:1)				
USABLE AT	50Hz 40HP 190/380V 114/57A				SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 31673

Typical performance - not guaranteed values

Winding: 12WGY276-R001			Type: 1254M		Enclosure: TEFC		
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		96/48	Breakdown Torque		396 LB-FT		
R.P.M.		1775	Pull-up Torque		198 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		222 LB-FT		
NEMA Design Code		A	KVA Code		H	Starting Current	347 A
Service Factor (S.F.)		1.15	No-load Current		21.03 A		
NEMA Nom. Eff.		94.1	Power Factor		82	Line-line Res. @ 25°C	0.139 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		54°C
S.F. Amps					Temp. Rise @ S.F. Load		66°C
					Locked-rotor Power Factor		27.1
					Rotor inertia		7.19 lb-ft²

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	77	82	84	85	83
Efficiency	89.8	93.4	94.1	94.4	93.9	93.1	94.1
Speed	1794	1788	1783	1777	1771	1765	1773
Line amperes	23.93	30.4	39.12	48.68	59.71	71.22	55.3

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





