



Product Information Packet

EM4115T

50HP,1775RPM,3PH,60HZ,326T,1272M,TEFC,F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGZ279	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12H13	Layout:	12LYH013	Poles:	04	Created Date:	11-19-2020
Base:	RG	Eff. Date:	02-16-2022	Leads:	9#6		

Specs			
Catalog Number:	EM4115T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	326T	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	H
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	50.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 6 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:	1272M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	85
	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:	116.000 A @ 230.0 V	Shaft Rotation:	Reversible
	126.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
	58.000 A @ 460.0 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.	EM4115T			CUST. P/N				ENCL	TEFC	
SPEC.	12H013Z279G1		CC	010A	FRAME	326T		SER.NO.		
HP	50		CLASS	F	HZ	60				
R.P.M.	1775		PH.	3	DES.	A				
VOLTS	230/460			CODE	H		ODE BRG	6311	DE BRG	6312
AMPS	116/58			USABLE AT 208V	126					
RATING	40C AMB-CONT			NEMA NOM. EFF.	94.5		GREASE	POLYREX EM		
P.F.	85		SER.F.	1.15		CT6-60H(10:1)VT3-60H(20:1)				
USABLE AT	50HZ 50HP 190/380V 138/69.5A				SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.						

AC Induction Motor Performance Data

Record # 85607

Preliminary Data Sheet

Winding: 12WGZ279-R001				Type: 1272M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		147.8 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		116/58		Breakdown Torque		475 LB-FT	
R.P.M.		1775		Pull-up Torque		210 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		240 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		413 A
Service Factor (S.F.)		1.15		No-load Current		20.8 A	
NEMA Nom. Eff.		94.5	Power Factor	85	Line-line Res. @ 25°C		0.114 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps		132/68		Temp. Rise @ S.F. Load		88°C	
				Locked-rotor Power Factor		29.7	
				Rotor inertia		9.59 lb-ft²	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	82	86	87	87	87
Efficiency	91.5	94.4	94.8	94.6	94	93.2	94.1
Speed	1794	1788	1782	1776	1769	1761	1770
Line amperes	24.8	33.9	45.3	57.9	71.6	87.5	66.1

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





