



Product Information Packet

CEM4114T

50HP,3540RPM,3PH,60HZ,326TSC,1252M,TEFC

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY291	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12H41	Layout:	12LYH041	Poles:	02	Created Date:	09-15-2010
Base:	RG	Eff. Date:	01-13-2022	Leads:	9#8		

Specs			
Catalog Number:	CEM4114T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	326TSC	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:	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:	1252M
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:	C-Face
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:	112.000 A @ 230.0 V	Shaft Rotation:	Reversible
	122.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
	56.000 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.	CEM4114T			CUST. P/N				ENCL	TEFC
SPEC.	12H041Y291G2	CC	010A	FRAME	326TSC	SER.NO.			
HP	50	CLASS	F	HZ	60				
R.P.M.	3540	PH.	3	DES.	A				
VOLTS	230/460	CODE	H	ODE BRG	6311	DE BRG	6312		
AMPS	112/56	USABLE AT 208V	122						
RATING	40C AMB-CONT	NEMA NOM. EFF.	93	GREASE	POLYREX EM				
P.F.	90	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1)					
USABLE AT	50Hz 50HP 190/380V 134/67A			SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 35504

Typical performance - not guaranteed values

Winding: 12WGY291-R005			Type: 1252M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		50		Full Load Torque		74.4 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		112/56		Breakdown Torque		292 LB-FT	
R.P.M.		3540		Pull-up Torque		112 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		139 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		408 A
Service Factor (S.F.)		1.15		No-load Current		14.9 A	
NEMA Nom. Eff.		93	Power Factor	90	Line-line Res. @ 25°C		0.11257 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		77°C	
S.F. Amps				Temp. Rise @ S.F. Load		95°C	
				Locked-rotor Power Factor		20.9	
				Rotor inertia		4.07 LB-FT2	

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	90	91	90	91
Efficiency	91.1	93.8	94.2	93.9	93.2	92.3	93.5
Speed	3584.1	3571.8	3558.2	3544.1	3528.2	3511.2	3535
Line amperes	20.4	30.8	42.9	55.8	69.5	84.6	64

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





