

BALDOR · RELIANCE II

Product Information Packet

CEM4110T

40HP,1775RPM,3PH,60HZ,324TC,1254M,TEFC,F

BALDOR • RELIANCE Product Information Packet: CEM4110T - 40HP,1775RPM,3PH,60HZ,324TC,1254M,TEFC,F

Part Detail	etail						
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY276	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	12C52	Layout:	12LYC052	Poles:	04	Created Date:	06-25-2010
Base:	RG	Eff. Date:	09-06-2017	Leads:	9#8		

Specs

Catalog Number:	CEM4110T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324TC	Inverter Code:	Inverter Ready
Frame Material:	Iron	KVA Code:	н
Output @ Frequency:	40.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 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:	Ко Вох
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1254M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	82
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
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:	102.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	48.000 A @ 460.0 V	Shaft Rotation:	Reversible
	96.000 A @ 230.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	А	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:	Front Shaft Indicator: None		None
		Winding Thermal 2:	None

Nameplate NP344	I3LUA					
	OFMANOT		0110			ENO E EEO
CAT.NO.	CEM4110T		_ cos	T. P/N		ENCL TEFC
SPEC.	12C052Y276G1	CC 010A	FRAME	324TC	SER.NO.	
HP	40	CLA	SS F	HZ 60		
R.P.M.	1775	PH	I. 3	DES. A		_
VOLTS	230/460		CODE		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	K. SPACE HEAT	ER TEMP.		

AC Induction Motor Performance Data

Record # 31673 - Typical performance - not guaranteed values

Winding: 12WGY276-R001

Nameplate Data					
Rated Output (HP)	Output (HP) 40				
Volts		230/460			
Full Load Amps		96/48		E	
R.P.M.		1775			
Hz	60	60 Phase 3			
NEMA Design Code	А	A KVA Code I			
Service Factor (S.F.)		1.15			
NEMA Nom. Eff.	94.1 Power Factor 8			[ī	
Rating - Duty		40C AMB-CONT			
S.F. Amps					
				[
				F	

	460 V, 60 Hz: High Voltage Connection				
	Full Load Torque	118 LB-FT			
	Start Configuration	direct on line			
	Breakdown Torque	386 LB-FT			
	Pull-up Torque	193 LB-FT			
	Locked-rotor Torque	216 LB-FT			
	Starting Current	338 A			
	No-load Current	19.9 A			
	Line-line Res. @ 25°C	0.14898 Ω			
	Temp. Rise @ Rated Load	54°C			
	Temp. Rise @ S.F. Load	64°C			
	Locked-rotor Power Factor	27.3			
	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	47	69	78	83	85	85	84
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1	94
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1	1773
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8	54.8

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





