

Product Information Packet

CEM4110T

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

Part Detail							
Revision:	V	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:	08-08-2022	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			
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:	Ко Вох			
	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:	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:	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

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

Nameplate NP3443LUA									
CAT.NO.	CEM4110T	_ cus	ENCL TEFC						
SPEC.	12C052Y276G1	CC 010A	FRAME	324TC	SER.NO.				
HP	40	CL	ASS F	HZ 60					
R.P.M.	1775	P	H. 3	DES. A		_			
VOLTS	230/460		CODE H		ODE BRG 6311 DE BRG 6312				
AMPS	96/48		USABLE AT	T 208V 102					
RATING	40C AMB-CONT		NEMA NOM	I. EFF. 94.1	GREASE POLYREX EM				
P.F.	82	SER.F. 1.15		C	CT6-60H(10:1)VT3-60H(20:1				
USABLE AT	50Hz 40HP 190/380V 114/57A		SF1.0		·				
VOLTS	AMPS	MA	X. SPACE HEAT	ER TEMP.					

AC Induction Motor Performance Data

Record # 31673

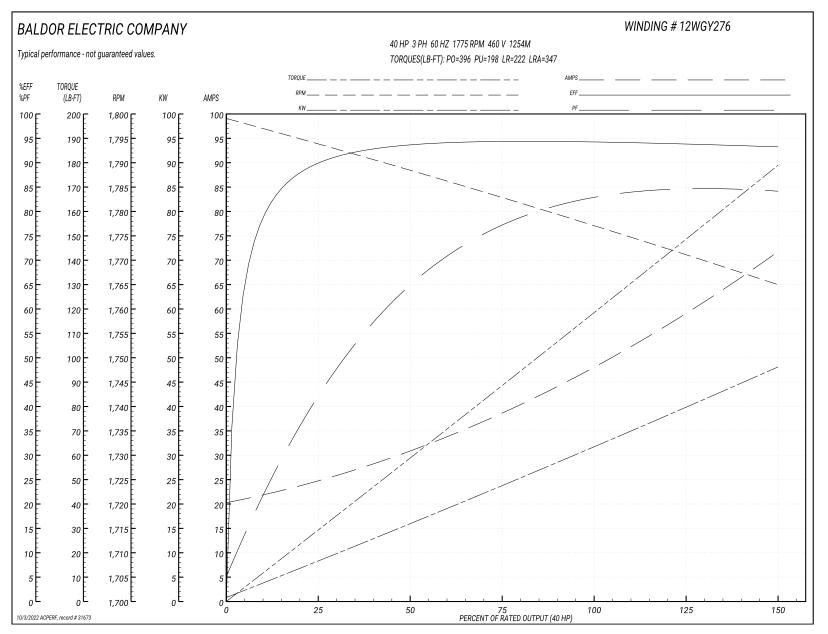
Typical performance - not guaranteed values

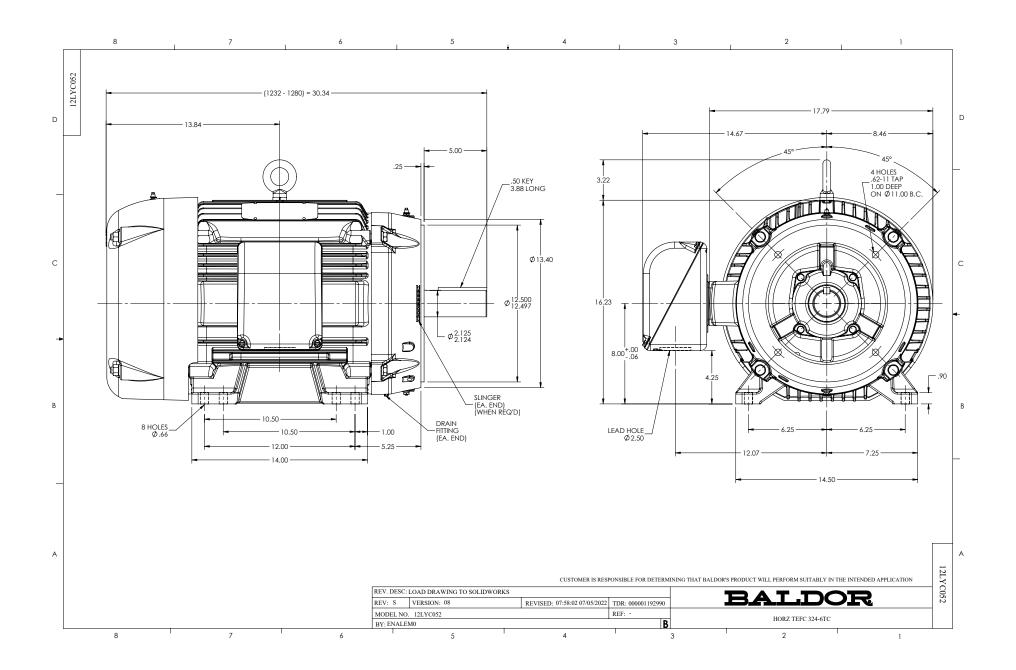
Winding: 12WGY276-R001		Type: 1254M		Enclosure: TEFC
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)		40	Full Load Torque	119 LB-FT
Volts		230/460	Start Configuration	direct on line
Full Load Amps		96/48	Breakdown Torque	396 LB-FT
R.P.M.		1775	Pull-up Torque	198 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	222 LB-FT
NEMA Design Code	A KVA Code	Н	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





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