



Product Information Packet

CEM4109T

40HP,3530RPM,3PH,60HZ,324TSC,1058M,TEFC

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY652	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10F423	Layout:	10LYF423	Poles:	02	Created Date:	05-25-2018
Base:	RG	Eff. Date:	07-18-2022	Leads:	9#8		

Specs			
Catalog Number:	CEM4109T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	324TSC	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:	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:	1058M
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:	100.000 A @ 208.0 V	Shaft Rotation:	Reversible
	45.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
	90.000 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.	CEM4109T			CUST. P/N				ENCL	TEFC
SPEC.	10F423Y652G1	CC	010A	FRAME	324TSC	SER.NO.			
HP	40	CLASS	F	HZ	60				
R.P.M.	3530	PH.	3	DES.	A				
VOLTS	230/460	CODE	H	ODE BRG	6309	DE BRG	6312		
AMPS	90/45	USABLE AT 208V	100						
RATING	40C AMB-CONT	NEMA NOM. EFF.	92.4	GREASE	POLYREX EM				
P.F.	90	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1)					
USABLE AT	50Hz 40HP 190/380V 110/55A			SF1.0					
VOLTS		AMPS		MAX. SPACE HEATER TEMP.					

AC Induction Motor Performance Data

Record # 30898

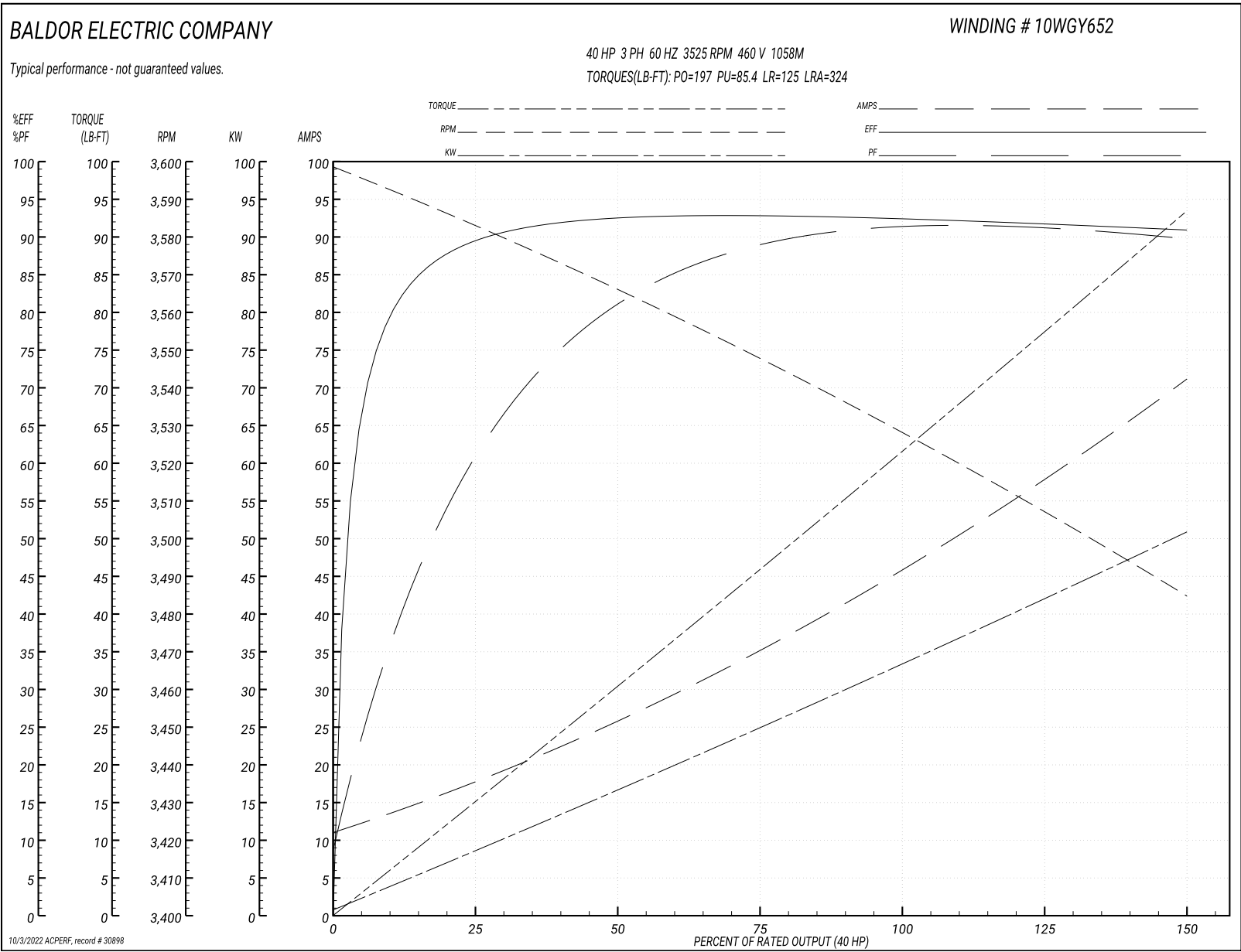
Typical performance - not guaranteed values

Winding: 10WGY652-R001				Type: 1058M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40		Full Load Torque		59.5 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		90/45		Breakdown Torque		197 LB-FT		
R.P.M.		3525		Pull-up Torque		85.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		125 LB-FT		
NEMA Design Code		B		KVA Code	H	Starting Current		324 A
Service Factor (S.F.)		1.15		No-load Current		12 A		
NEMA Nom. Eff.		92.4	Power Factor	90	Line-line Res. @ 25°C		0.14992 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps						Temp. Rise @ S.F. Load		97°C
						Locked-rotor Power Factor		23
						Rotor inertia		2.49 LB-FT2

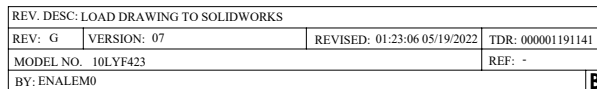
Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	88	90	90	91	90
Efficiency	90.7	93.4	93.7	93.2	92.4	91.1	92.7
Speed	3583.2	3567.3	3549.7	3530.6	3511.2	3484.5	3519
Line amperes	16.3	24.7	34.3	45.1	56.3	70.6	51.8

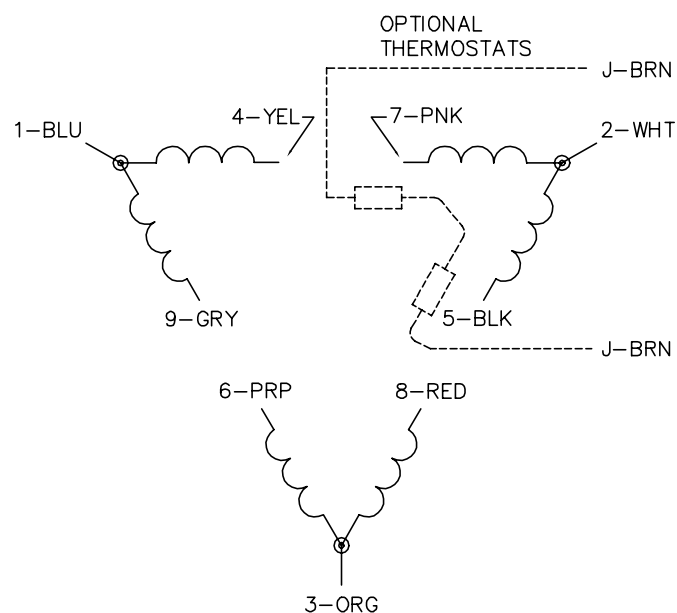
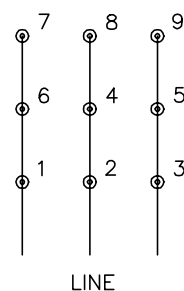
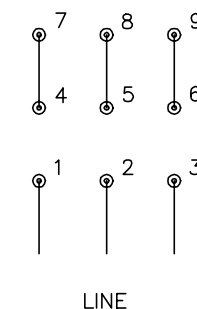
Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values



10/3/2022 ACPERF, record # 30898



CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)


NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10:25:29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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