

**BALDOR • RELIANCE**

---

# Customer information packet

## CECP83586T-4

2HP, 3490RPM, 3PH, 60HZ, 145TC, 0526M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.8
Current @ Voltage	2.440 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	Q
Type	AC
Mech. spec.	05E943
Base	
Status	PRD/A
Elec. spec.	05WGX123
Layout	05LYE943
Eff. date	12-30-2024
CD Diagram	CD0006
Poles	02
Leads	3#18,0#,0#,0# Y
Proprietary	False
Created date	07-05-2016

<b>Haz Area Temp Code</b>	T4
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	2.4 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	@ 0 AWG 3 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0526M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	13.38 IN
<b>Power Factor</b>	88
<b>Product Family</b>	Chem Process S/P 32-8 IEEE 841
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3490 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line

<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP4328</b>									
<b>CAT.NO.</b>	CECP83586T-4								
<b>SPEC.</b>	05E943X123G1								
<b>HP</b>	2 TE	<b>IP</b>	56						
<b>VOLTS</b>	460								
<b>AMPS</b>	2.44								
<b>R.P.M.</b>	3490								
<b>FRAME</b>	145TC	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<b>DES.</b>	B	<b>CLASS</b>	F		
<b>RATING</b>	40C AMB-CONT								
<b>SN</b>									
<b>DE</b>	6205	<b>ODE</b>	6205						
<b>NEMA NOM. EFF.</b>	85.5	<b>P.F.</b>	88						
<b>GUAR. MIN. EFF.</b>	82.5	<b>CC</b>	010A						
<b>T. CODE</b>	T4	<b>TEMP=</b>	135						

**NP3186**

<b>SPEC.</b>	05E943X123G1		
<b>ABMA DE BRG</b>	25BC02X30X		
<b>ABMA ODE BRG</b>	25BC02X30X		
<b>GREASE</b>	POLYREX EM		
<b>MOTOR WEIGHT</b>	80	<b>ROTOR BARS</b>	20
		<b>STATOR BARS</b>	24
<b>MAX. R.P.M.</b>	5400	<b>MAX. KVAR</b>	0.1
<b>INV.TYPE</b>	PWM		
<b>T=</b>	135		
<b>CHP</b>	60	<b>TO</b>	90
<b>CT</b>	1.8	<b>TO</b>	60
<b>VT</b>	-0	<b>TO</b>	60
<b>HTR-VOLTS</b>	N/A	<b>HTR-AMPS</b>	N/A
<b>HTR-WATTS</b>	N/A	<b>MAX. SPACE HEATER TEMP.</b>	N/A

**AC Induction Motor Performance Data**

Record # 92393

Typical performance - not guaranteed values

<b>Winding:</b> 05WGX123-R004		<b>Type:</b> 0526M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	2	<b>Full Load Torque</b>	2.98 LB-FT		
<b>Volts</b>	460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	2.5	<b>Breakdown Torque</b>	14.2 LB-FT		
<b>R.P.M.</b>	3490	<b>Pull-up Torque</b>	6.33 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	11.2 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	25 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	0.912 A		
<b>NEMA Nom. Eff.</b>	85.5	<b>Line-line Res. @ 25°C</b>	6.88 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	44°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	52°C		
		<b>Locked-rotor Power Factor</b>	49.9		
		<b>Rotor inertia</b>	0.0719 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 2 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	55	75	84	88	90	91	89
<b>Efficiency</b>	73.4	83.6	85.8	85.5	85.8	84.7	86
<b>Speed</b>	3572	3547	3520	3492	3461	3426	3473
<b>Line amperes</b>	1.1	1.47	1.93	2.44	3	3.61	2.78

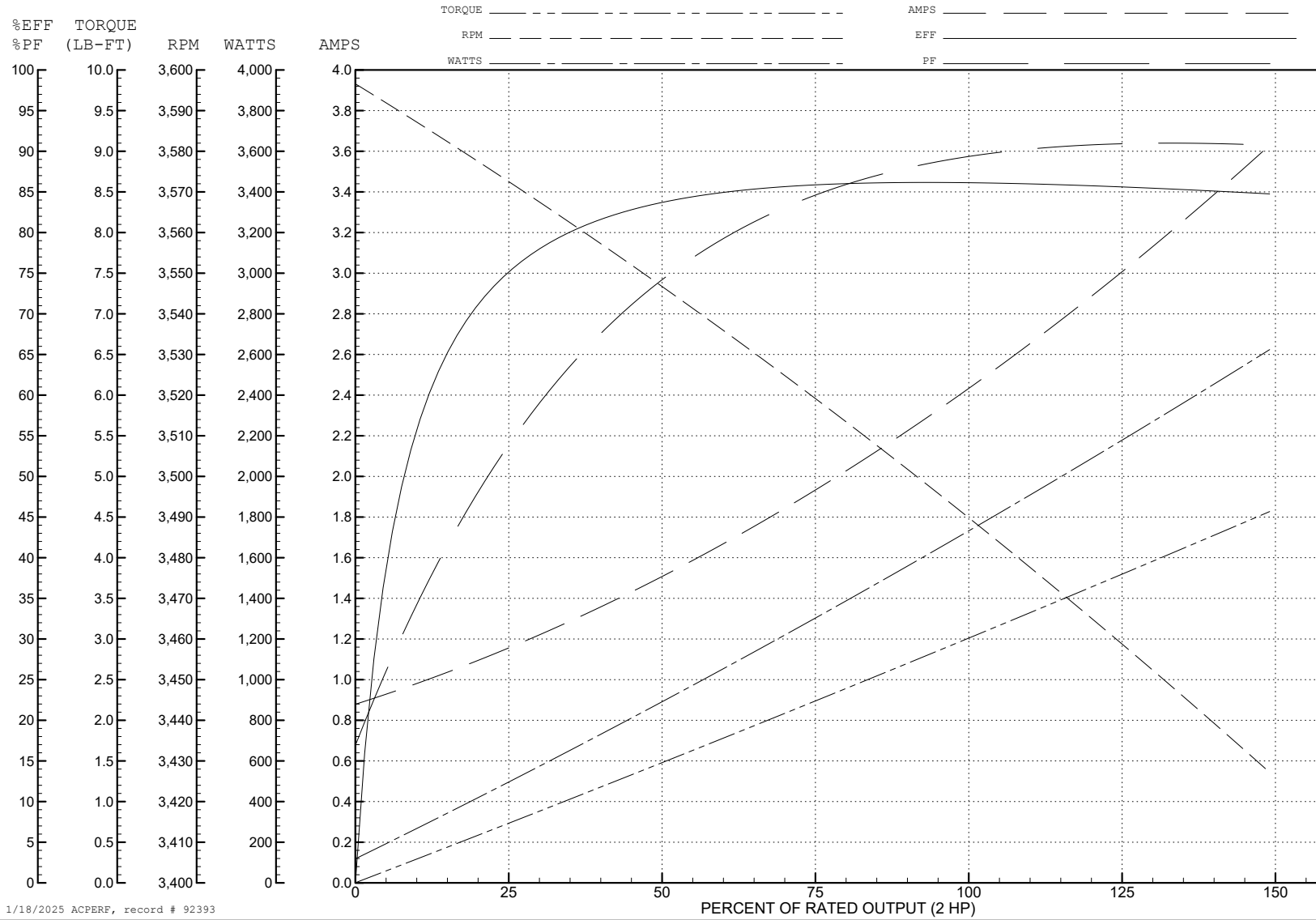
ABB Motors and Mechanical Inc.

WINDING # 05WGX123

Typical performance - not guaranteed values.

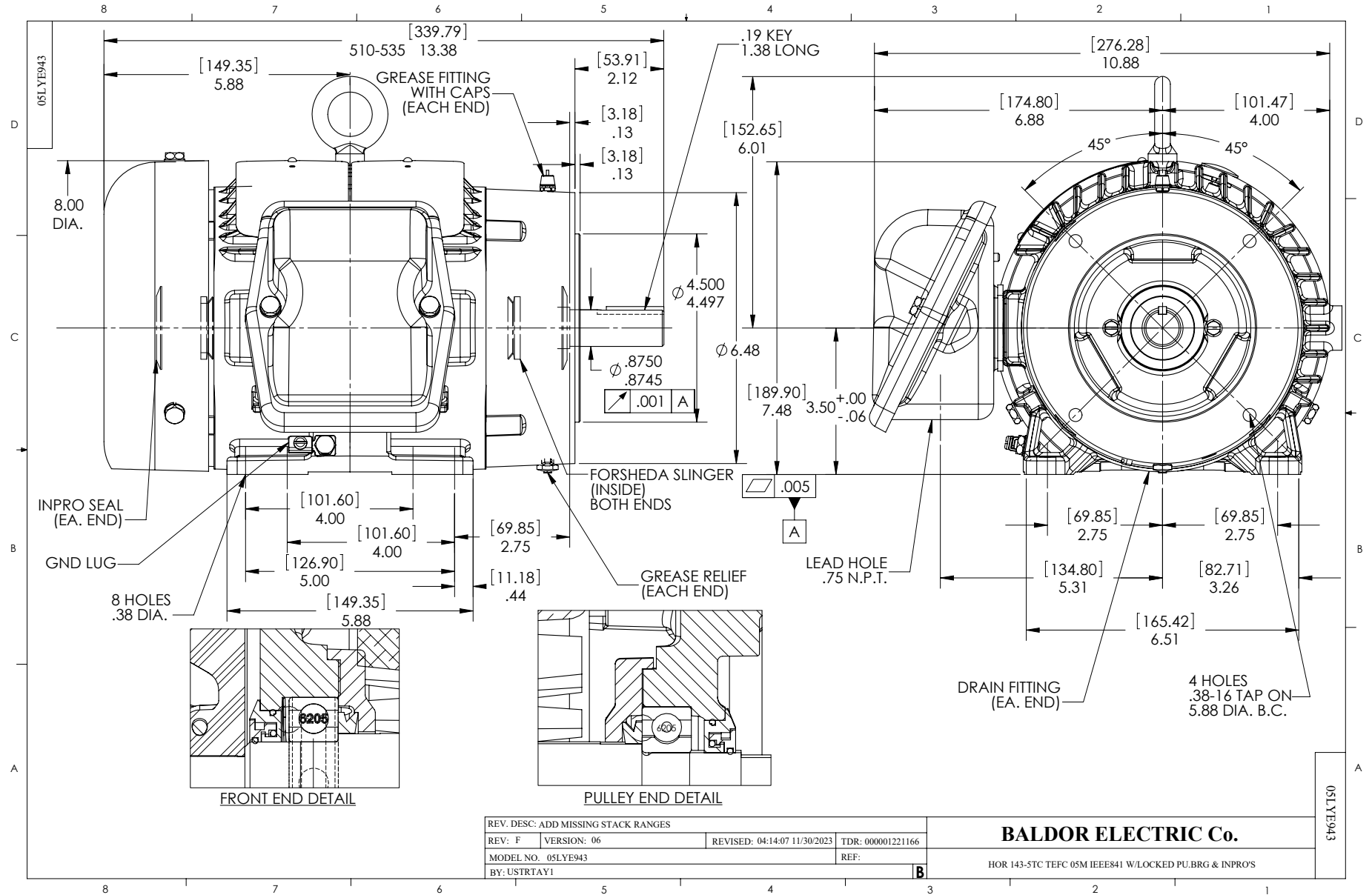
2 HP 3 PH 60 HZ 3490 RPM 460 V 0526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25

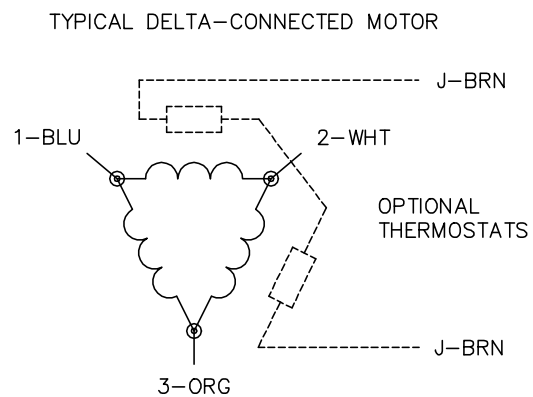
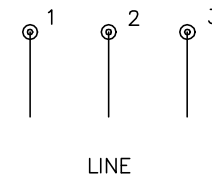
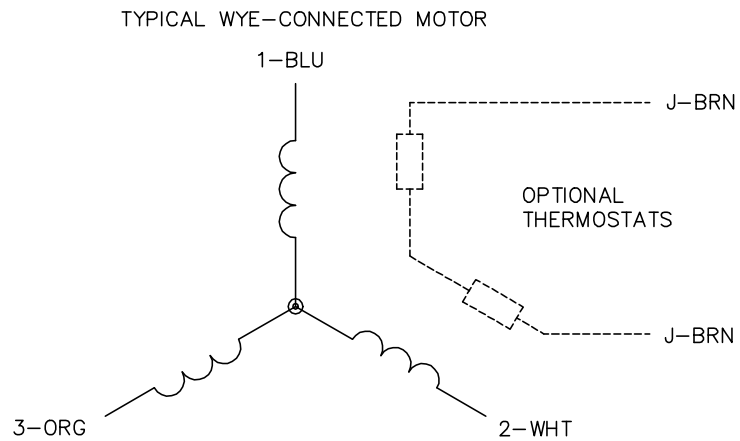


1/18/2025 ACPERF, record # 92393





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -		© □

**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1