ABB BALDOR RELIANCE

Customer information packet

CEM3586T

2HP, 3490RPM, 3PH, 60HZ, 143TC, 0526M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO)
	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.300 A @ 208.0 V
	5.000 A @ 230.0 V
	2.500 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

Part Detail

Revision	S
Type	AC
Mech. spec.	05C052
Base	
Status	PRD/A
Elec. spec.	05WGX117
Layout	05LYC052
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-14-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.04 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1259L											
CAT.NO.	CEM3586T										
SPEC.	05C052X117E7										
HP	2										
VOLTS	208-230/460										
AMP	5.3-5/2.5										
RPM	3490										
FRAME	143TC	**HZ**	60				**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F				
NEMA-NOM-EFF	85.5	**PF**	88								
RATING	40C AMB-CONT										
CC	010A										
DE	6205	**ODE**	6203								
ENCL	TEFC	**SN**									

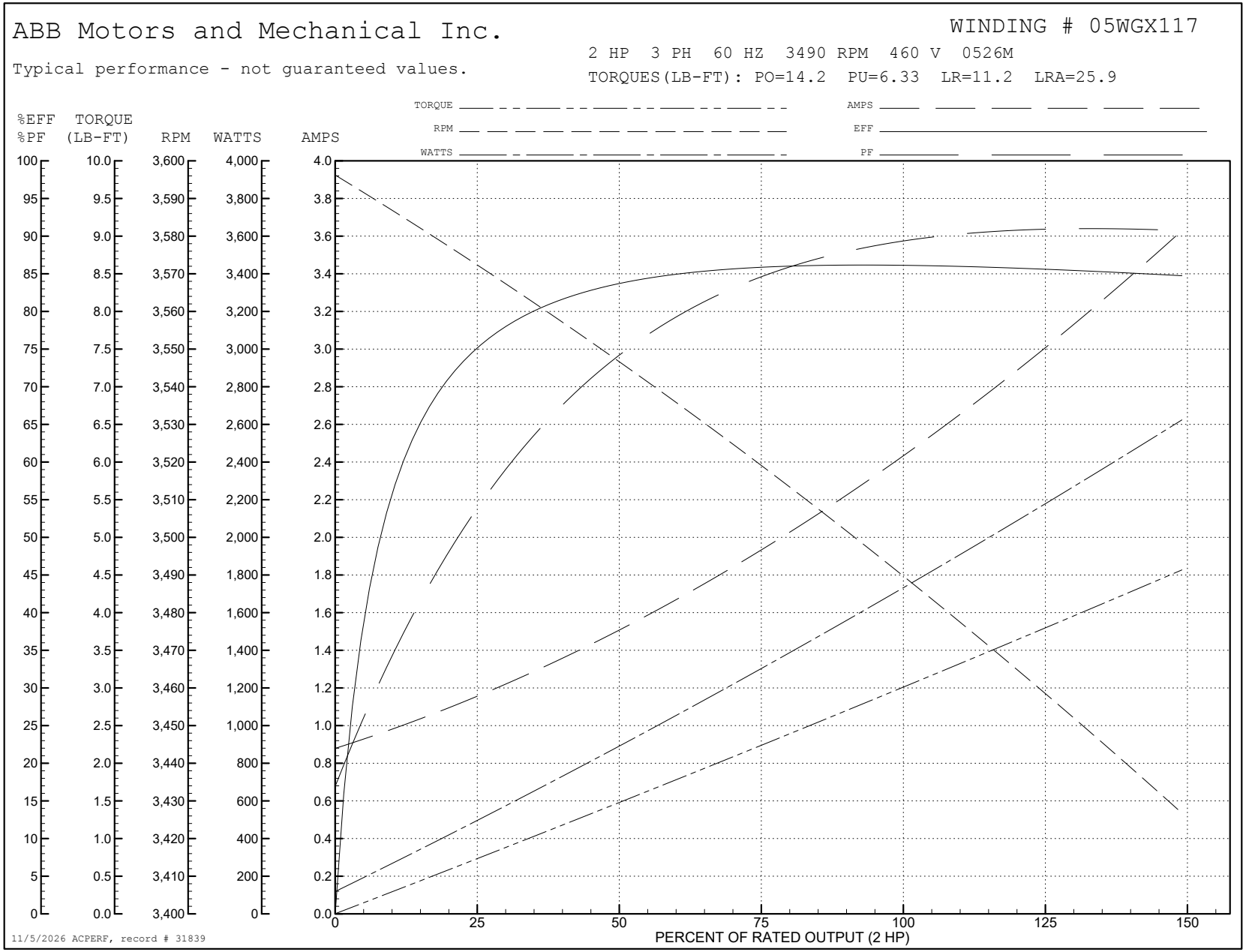
AC Induction Motor Performance Data
Record # 31839
Typical performance - not guaranteed values

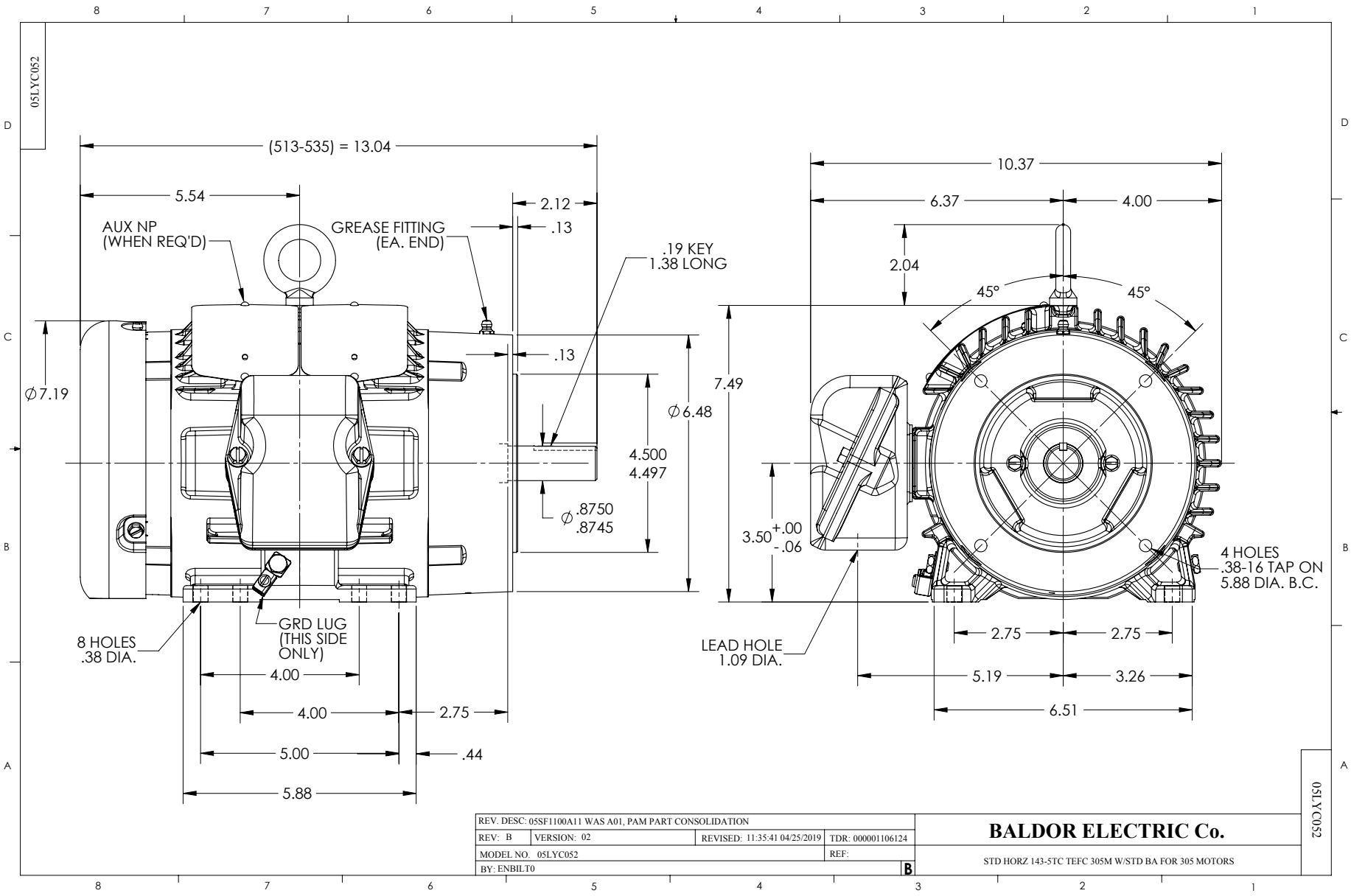
Winding: 05WGX117-R001	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	2.98 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.3-5/2.5	**Breakdown Torque**	14.2 LB-FT
R.P.M.			3490	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	25.9 A
Service Factor (S.F.)			1.15	**No-load Current**	0.912 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	6.9119 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C

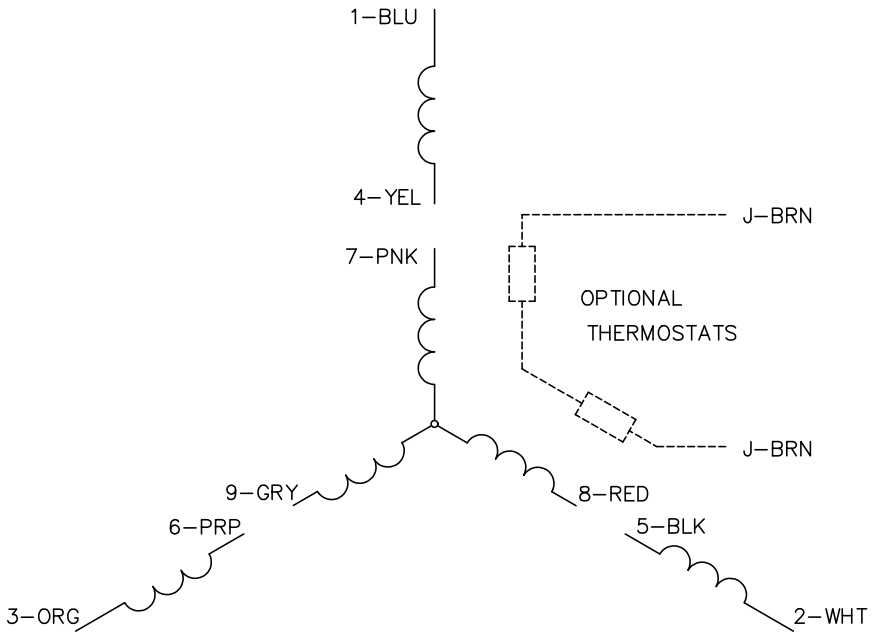
Load Characteristics 460 V, 60 Hz, 2 HP

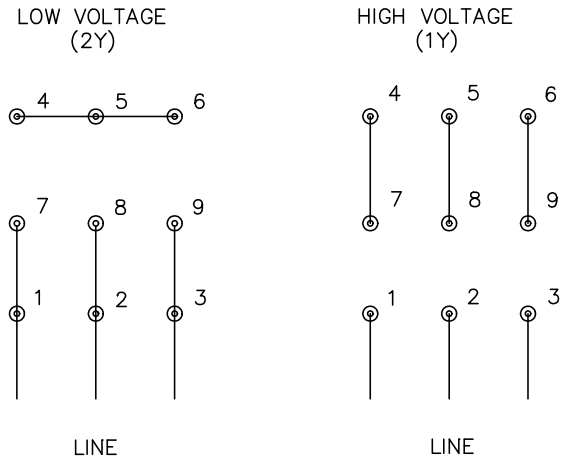
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	84	88	90	91	89
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8	86.1
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78


ABB Motors and Mechanical Inc.
WINDING # 05WGX117
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=25.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 31839


05LYC052
(513-535) = 13.04
5.54
2.12
.13
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EA. END)
.19 KEY
1.38 LONG
∅7.19
.13
∅6.48
4.500
4.497
∅.8750
∅.8745
8 HOLES
.38 DIA.
GRD LUG
(THIS SIDE
ONLY)
4.00
4.00
2.75
5.00
.44
5.88
10.37
6.37
4.00
2.04
45°
45°
7.49
3.50 +.00 -.06
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
2.75
2.75
5.19
3.26
6.51
REV. DESC: 05SF1100A11 WAS A01, PAM PART CONSOLIDATION
REV: B
VERSION: 02
REVISED: 11:35:41 04/25/2019
TDR: 000001106124
MODEL NO. 05LYC052
REF:
BY: ENBILT0
B
BALDOR ELECTRIC Co.
STD HORZ 143-5TC TEFC 305M W/STD BA FOR 305 MOTORS
05LYC052

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS