

ABB BALDOR RELIANCE III

Customer information packet

ECP83586T-4

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

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	145T
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	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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
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
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Y
Type	AC
Mech. spec.	05E811
Base	
Status	PRD/A
Elec. spec.	05WGX123
Layout	05LYE811
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	02
Leads	3#18,0#,0#,0# Y
Proprietary	False
Created date	07-05-2016

Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ AWG 3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.87 IN
Power Factor	88
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	Shaft 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

NP4328									
CAT.NO.	ECP83586T-4								
SPEC.	05E811X123G1								
HP	2 TE				IP	56			
VOLTS	460								
AMPS	2.44								
R.P.M.	3490								
FRAME	145T		HZ		60		PH	3	
SER.F.	1.15	CODE	L	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6205		ODE		6205				
NEMA NOM. EFF.	85.5		P.F.		88				
GUAR. MIN. EFF.	82.5		CC		010A				
T. CODE	T4		TEMP=		135				

NP3186						
SPEC.	05E811X123G1					
ABMA DE BRG	25BC02X30X					
ABMA ODE BRG	25BC02X30X					
GREASE	POLYREX EM					
MOTOR WEIGHT	78	ROTOR BARS	20	STATOR BARS	24	
MAX. R.P.M.	5400	MAX. KVAR	0.1			
INV.TYPE	PWM					
T=	135					
CHP	60	TO	90			
CT	1.8	TO	60			
VT	0-	TO	60			
HTR-VOLTS	N/A	HTR-AMPS	N/A			
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.				N/A

AC Induction Motor Performance Data

Record # 92393

Typical performance - not guaranteed values

Winding: 05WGX123-R004			Type: 0526M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2	Full Load Torque		2.98 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		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 A
Service Factor (S.F.)		1.15	No-load Current		0.912 A		
NEMA Nom. Eff.		85.5	Power Factor	88	Line-line Res. @ 25°C		6.88 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps				Temp. Rise @ S.F. Load		52°C	
				Locked-rotor Power Factor		49.9	
				Rotor inertia		0.0719 lb-ft²	

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	73.4	83.6	85.8	85.5	85.8	84.7	86
Speed	3572	3547	3520	3492	3461	3426	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78

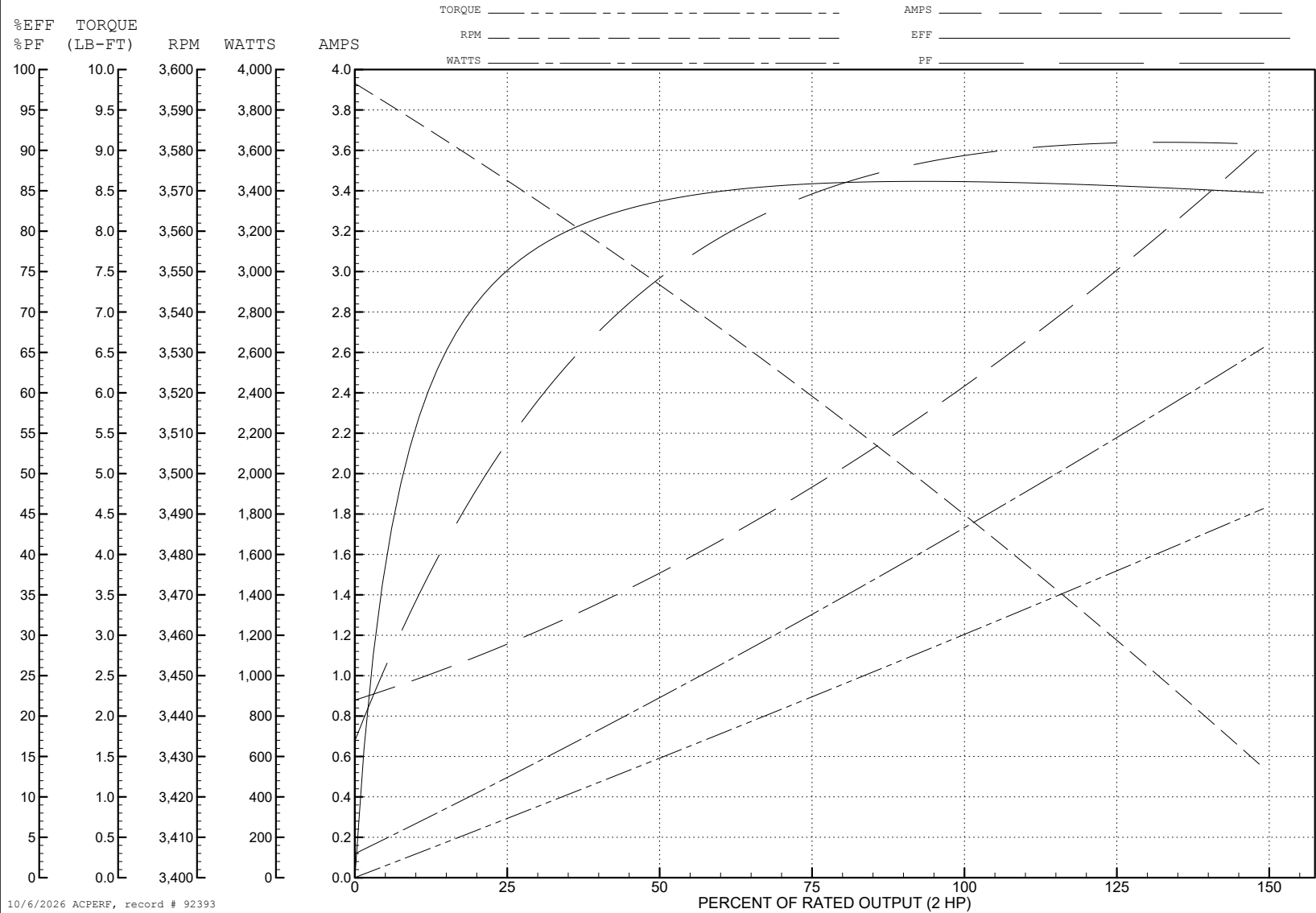
ABB Motors and Mechanical Inc.

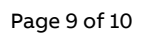
WINDING # 05WGX123

Typical performance - not guaranteed values.

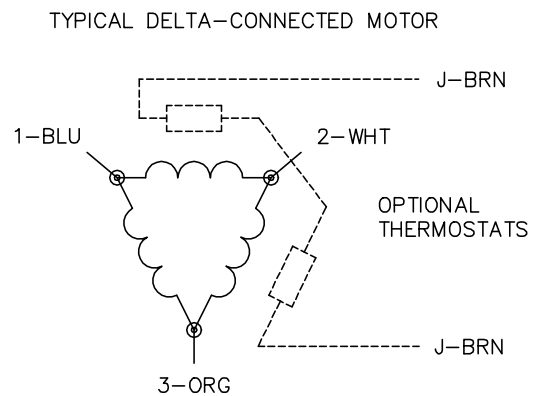
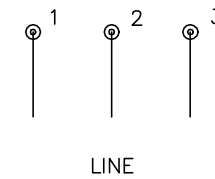
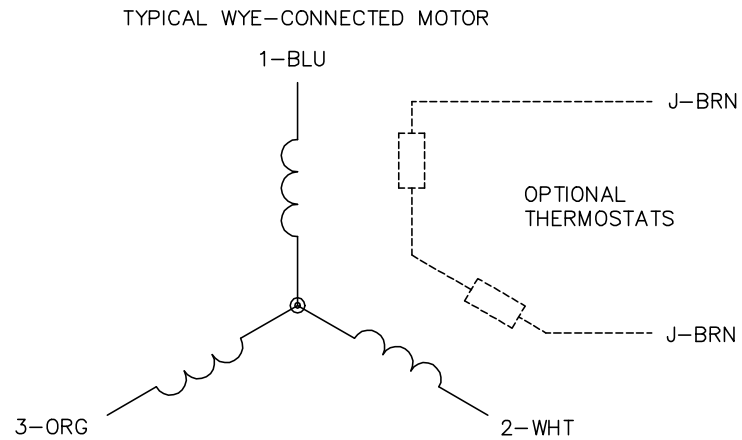
2 HP 3 PH 60 HZ 3490 RPM 460 V 0526M

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





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

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