

ABB BALDOR RELIANCE III

Customer information packet

ECP83582T-4

1HP, 1155RPM, 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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	2.0
Current @ Voltage	1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	E
Type	AC
Mech. spec.	05E811
Base	
Status	PRD/A
Elec. spec.	05WGX572
Layout	05LYE811
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	06
Leads	3#18
Proprietary	False
Created date	09-09-2022

Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.88 IN
Power Factor	67
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
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1155 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.	ECP83582T-4								
SPEC.	05E811X572G1								
HP	1 TE				IP	56			
VOLTS	460								
AMPS	1.7								
R.P.M.	1155								
FRAME	145T		HZ		60		PH	3	
SER.F.	1.15	CODE	J	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6205		ODE		6205				
NEMA NOM. EFF.	82.5		P.F.		67				
GUAR. MIN. EFF.	80		CC		010A				
T. CODE	T4		TEMP=		135				

NP3186									
SPEC.	05E811X572G1								
ABMA DE BRG	25BC02X30X								
ABMA ODE BRG	25BC02X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT		ROTOR BARS		27	STATOR BARS		36		
MAX. R.P.M.	1800	MAX. KVAR							
	SFA 1.86								
INV.TYPE	PWM								
T=	135								
CHP	60	TO	90						
CT	2.0	TO	60						
VT	0-	TO	60						
HTR-VOLTS	N/A	HTR-AMPS		N/A					
HTR-WATTS		MAX. SPACE HEATER TEMP.							N/A

AC Induction Motor Performance Data

Record # 82314

Typical performance - not guaranteed values

Winding: 05WGX572-R001			Type: 0526M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		4.48 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		1.7	Breakdown Torque		11.9 LB-FT	
R.P.M.		1155	Pull-up Torque		7.06 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	8.62 LB-FT	
NEMA Design Code	B	KVA Code	J	Starting Current	9.06 A	
Service Factor (S.F.)		1.15	No-load Current		1.02 A	
NEMA Nom. Eff.	82.5	Power Factor	67	Line-line Res. @ 25°C	21.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		46°C	
S.F. Amps			Temp. Rise @ S.F. Load		56°C	
			Locked-rotor Power Factor		48.3	
			Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	47	59	67	72	75	70
Efficiency	73.6	81.7	83.5	83.2	81.6	79.1	82.2
Speed	1193	1185	1178	1169	1159	1147	1163
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35	1.86

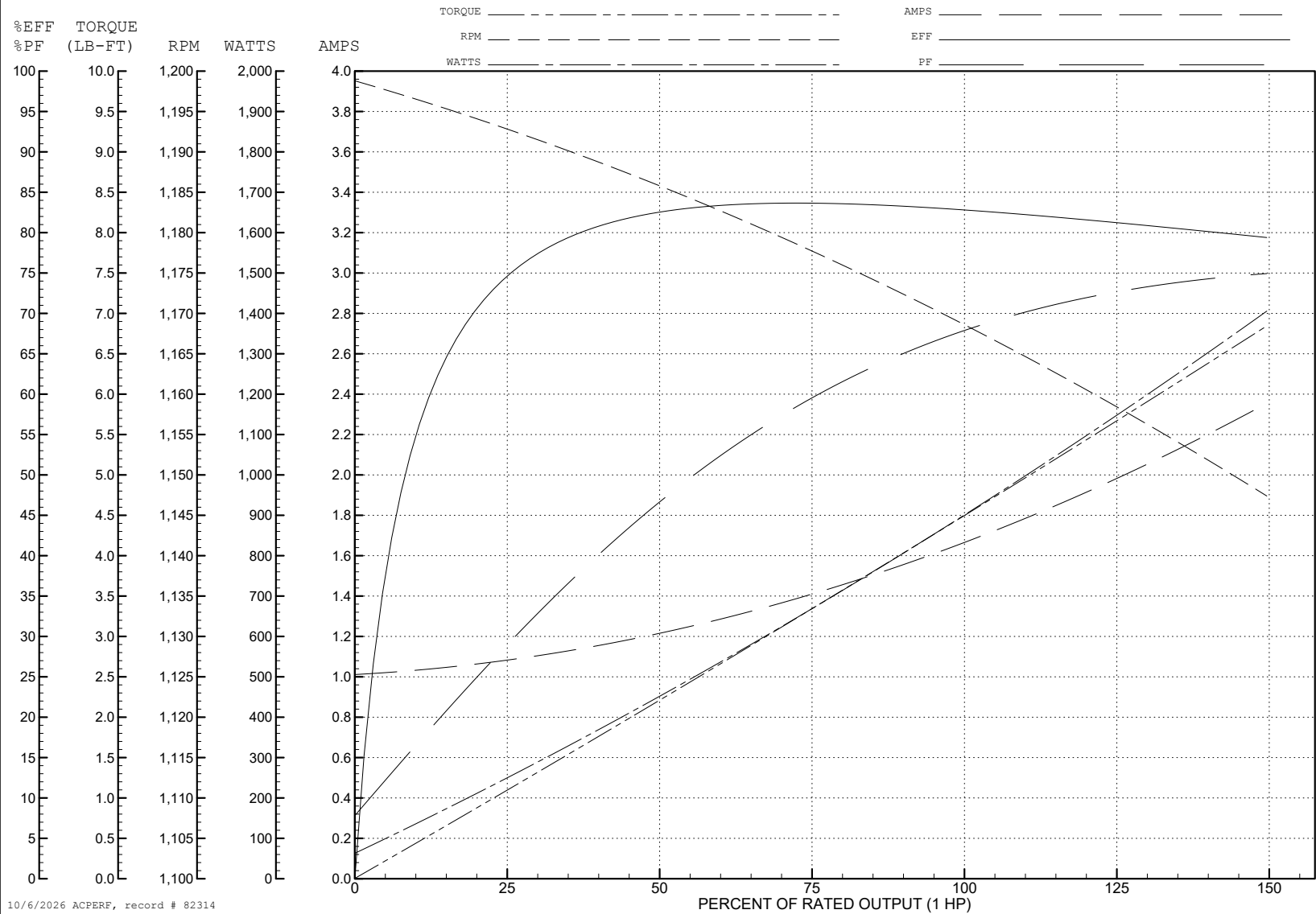
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WINDING # 05WGX572

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06



AC Induction Motor Performance Data

Record # 99230

Typical performance - not guaranteed values

Winding: 05WGX572-R001			Type: 0526M		Enclosure: TEFC	
Nameplate Data			368 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		4.56 LB-FT	
Volts		368	Start Configuration		direct on line	
Full Load Amps		1.7	Breakdown Torque		7.6 LB-FT	
R.P.M.		1155	Pull-up Torque		4.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	5.4 LB-FT	
NEMA Design Code	B	KVA Code	J	Starting Current	7.2 A	
Service Factor (S.F.)		1.15	No-load Current		0.79 A	
NEMA Nom. Eff.	82.5	Power Factor	67	Line-line Res. @ 25°C	21.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		57°C	
S.F. Amps		1.86	Temp. Rise @ S.F. Load		78°C	
			Locked-rotor Power Factor		48.3	
			Rotor inertia		0.189 lb-ft²	

Load Characteristics 368 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	61	71	75	76	69	76
Efficiency	79.8	84	83.2	80.5	75.7	59.7	77.6
Speed	1189	1177	1165	1149	1125	1033	1135
Line amperes	0.88	1.13	1.48	1.93	2.52	4.09	2.28

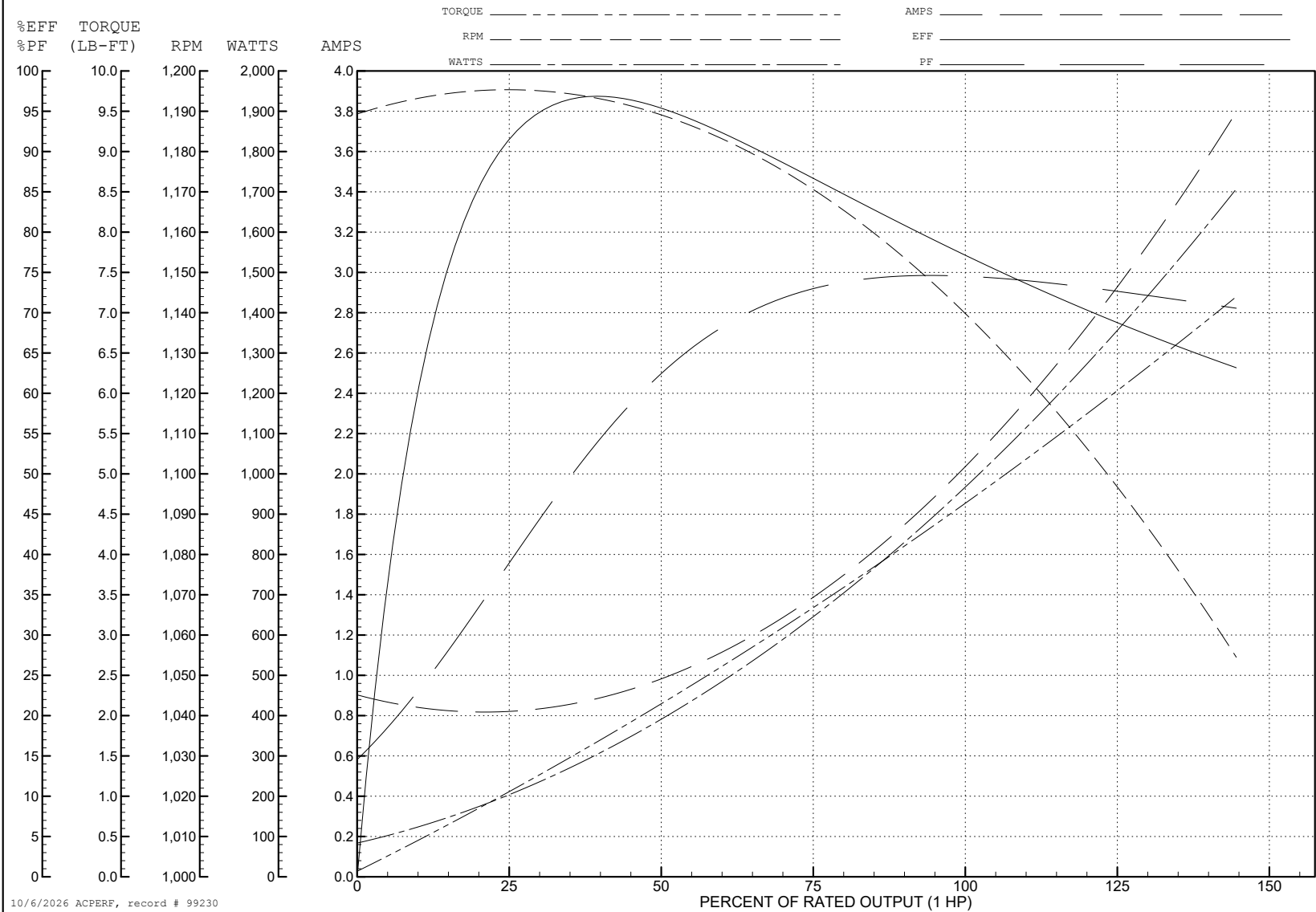
ABB Motors and Mechanical Inc.

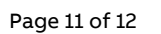
WINDING # 05WGX572

Typical performance - not guaranteed values.

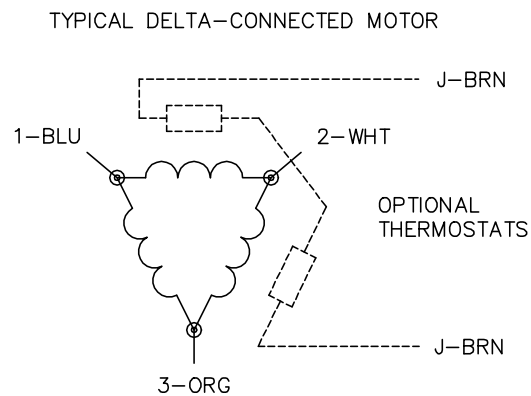
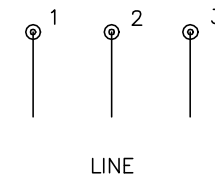
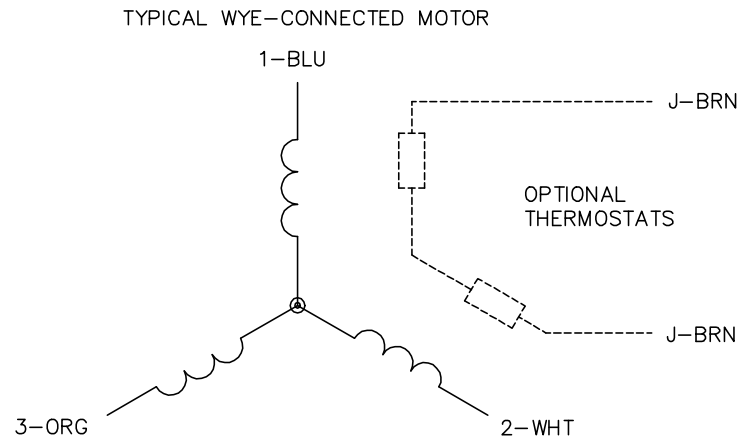
1 HP 3 PH 60 HZ 1155 RPM 368 V 0526M

TORQUES (LB-FT): PO=7.6 PU=4.4 LR=5.4 LRA=7.2





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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