



Customer information packet

CENCP83581T-4

1HP, 1775RPM, 3PH, 60HZ, 143TC, 0524M, TENV, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TENV
Frame	143TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I 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	1800 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	1.2
Current @ Voltage	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part detail

Revision	B
Type	AC
Mech. spec.	05F127
Base	
Status	PRD/A
Elec. spec.	05WGX611
Layout	05LYF127
Eff. date	11-08-2023
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.00 IN
Power Factor	72
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	1775 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.	CENCP83581T-4								
SPEC.	05F127X611G1								
HP	1 TE				IP	56			
VOLTS	460								
AMPS	1.5								
R.P.M.	1775								
FRAME	143TC		HZ		60		PH	3	
SER.F.	1.15	CODE	N	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6205		ODE		6205				
NEMA NOM. EFF.	87.5		P.F.		72				
GUAR. MIN. EFF.	85.5		CC		010A				
T. CODE	T4		TEMP=		135				

NP3186										
SPEC.	05F127X611G1									
ABMA DE BRG	25BC02X30X									
ABMA ODE BRG	25BC02XP30X									
GREASE	POLYREX EM									
MOTOR WEIGHT	62	ROTOR BARS		27	STATOR BARS		36			
MAX. R.P.M.	2700	MAX. KVAR		0.4						
	SFA 1.6									
INV.TYPE	PWM									
T=	135									
CHP	60	TO	90							
CT	1.2	TO	60							
VT	-0	TO	60							
HTR-VOLTS			HTR-AMPS							
HTR-WATTS			MAX. SPACE HEATER TEMP.							

AC Induction Motor Performance Data

Record # 87017

Preliminary Data Sheet

Winding: 05WGX611-R001			Type: 0524M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		1	Full Load Torque		2.96 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		1.5	Breakdown Torque		14.24 LB-FT			
R.P.M.		1775	Pull-up Torque		8.16 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		9.46 LB-FT		
NEMA Design Code		B	KVA Code	N	Starting Current		14.67 A	
Service Factor (S.F.)		1.15	No-load Current		0.97 A			
NEMA Nom. Eff.		87.5	Power Factor		72	Line-line Res. @ 25°C		15 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps		1.6	Temp. Rise @ S.F. Load		54°C			
			Locked-rotor Power Factor		57.3			
			Rotor inertia		0.173 lb-ft²			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	50	63	72	78	82	76
Efficiency	73.6	83.3	86.3	87	87.1	86.5	87.1
Speed	1793	1787	1781	1774	1767	1760	1770
Line amperes	1.01	1.12	1.28	1.49	1.72	1.98	1.63

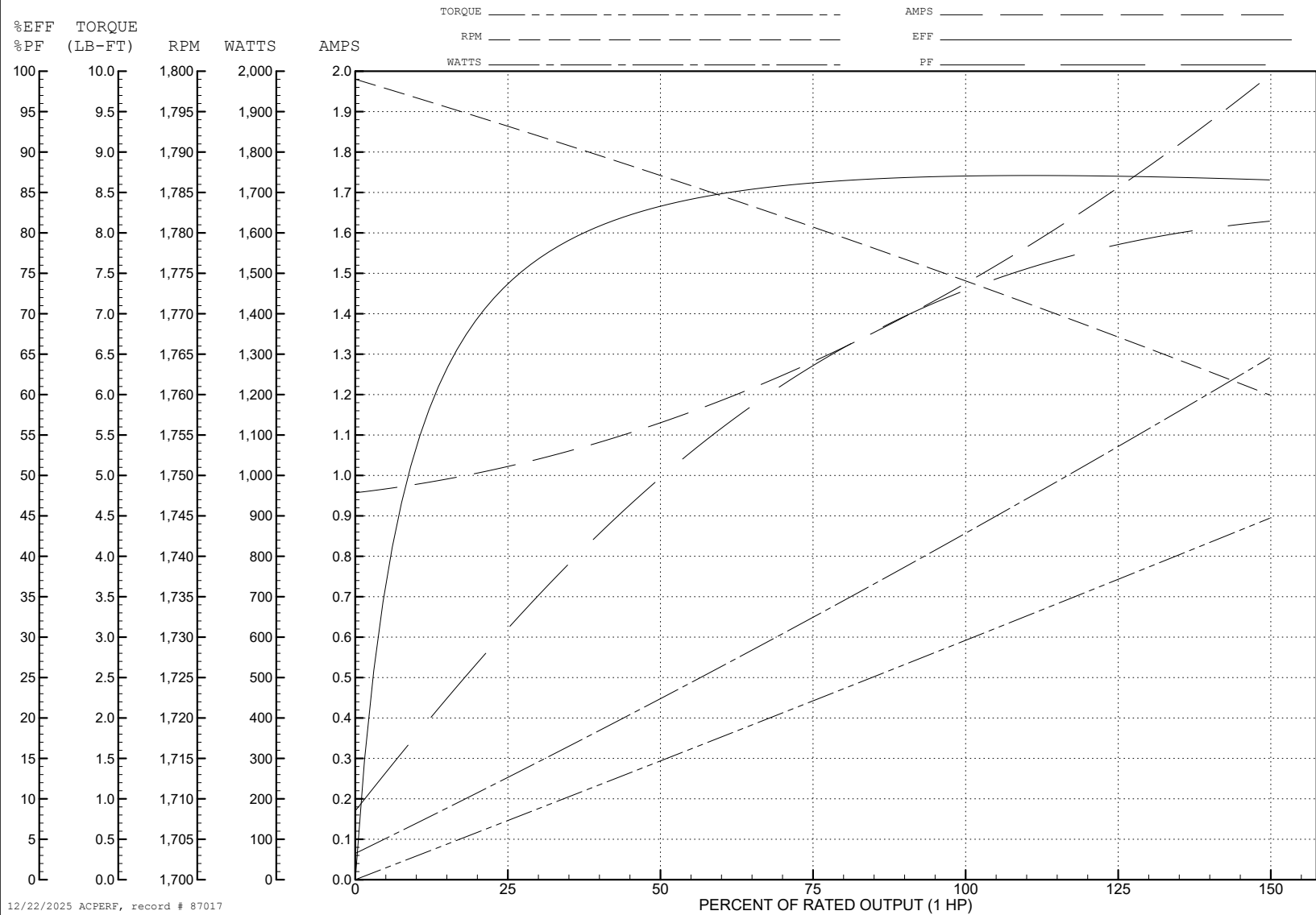
ABB Motors and Mechanical Inc.

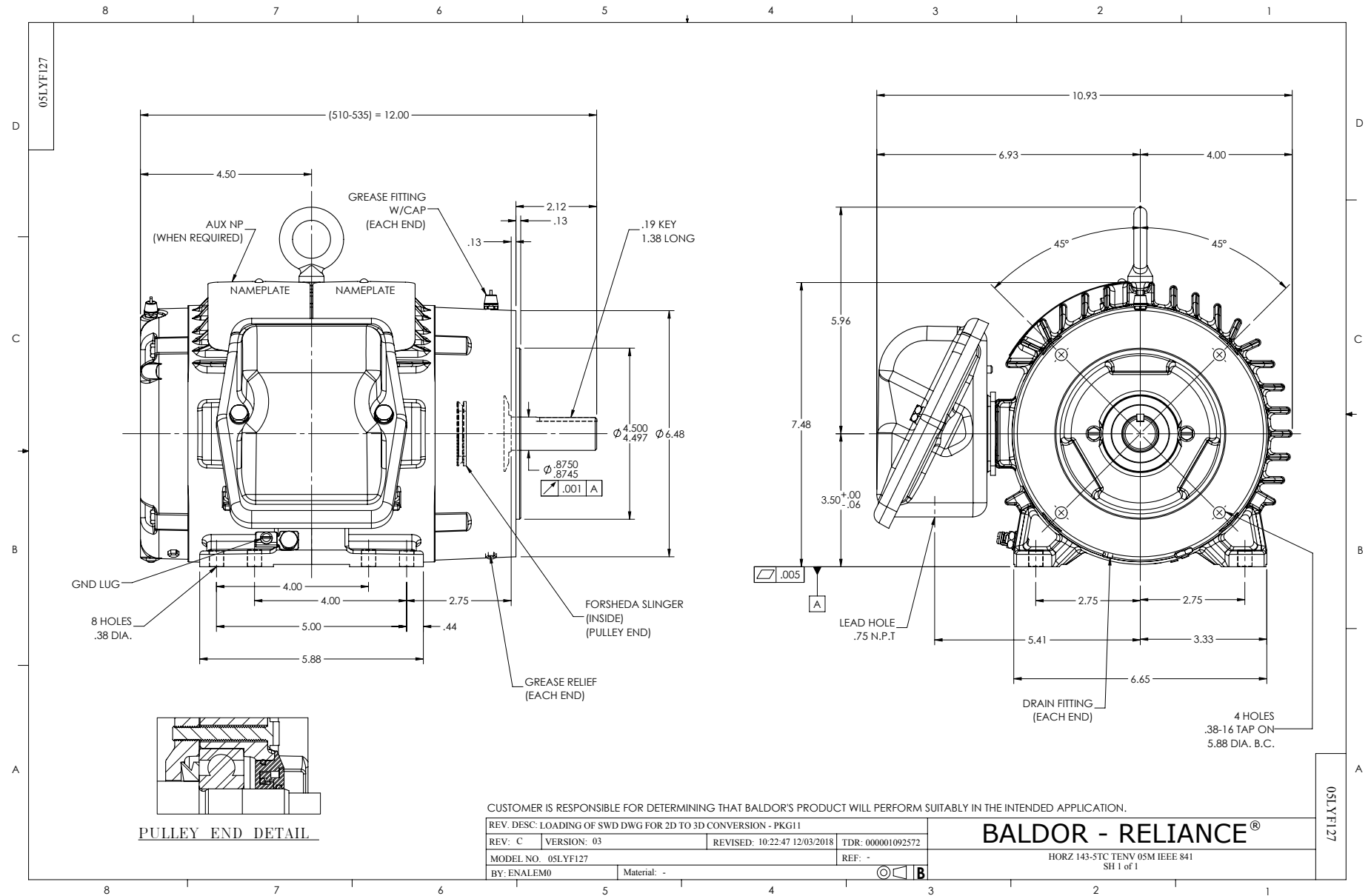
WINDING # 05WGX611

Typical performance - not guaranteed values.

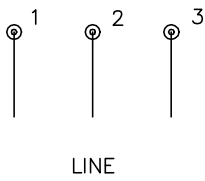
1 HP 3 PH 60 HZ 1775 RPM 460 V 0524M

TORQUES (LB-FT): PO=14.24 PU=8.16 LR=9.46 LRA=14.67





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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