



Customer information packet

ECP83587T-5

2HP, 1765RPM, 3PH, 60HZ, 145T, 0528M, 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	CL I 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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	1.5
Current @ Voltage	2.150 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T4

Part detail

Revision	E
Type	AC
Mech. spec.	05E811
Base	
Status	PRD/A
Elec. spec.	05WGX552
Layout	05LYE811
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	07-21-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	0528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.87 IN
Power Factor	80
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	1765 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.	ECP83587T-5								
SPEC.	05E811X552G1								
HP	2 TE				IP	56			
VOLTS	575								
AMPS	2.15								
R.P.M.	1765								
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.	86.5		P.F.		80				
GUAR. MIN. EFF.	84		CC		010A				
T. CODE	T4		TEMP=		135				

NP3186

SPEC.	05E811X552G1				
ABMA DE BRG	25BC02X30X				
ABMA ODE BRG	25BC02X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	65	ROTOR BARS	27	STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	0.69		
	SFA 2.57				
INV.TYPE	PWM				
T=	135				
CHP	60	TO	90		
CT	1.5	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 # 81984

Typical performance - not guaranteed values

Winding: 05WGX552-R001			Type: 0526M	Enclosure: TEFC				
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		2	Full Load Torque		5.96 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		2.15	Breakdown Torque		24.3 LB-FT			
R.P.M.		1764	Pull-up Torque		11.97 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		16.23 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		18.92 A	
Service Factor (S.F.)		1.15	No-load Current		1.46 A			
NEMA Nom. Eff.		86.5	Power Factor		80	Line-line Res. @ 25°C		15 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C		
S.F. Amps				Temp. Rise @ S.F. Load		49°C		
				Locked-rotor Power Factor		57		
				Rotor inertia		0.188 lb-ft²		

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	75	80	83	78
Efficiency	76.4	84.5	86.5	86.4	85.6	84.2	85.9
Speed	1790	1782	1773	1763	1753	1741	1757
Line amperes	1.5	1.68	1.97	2.32	2.74	3.21	2.57

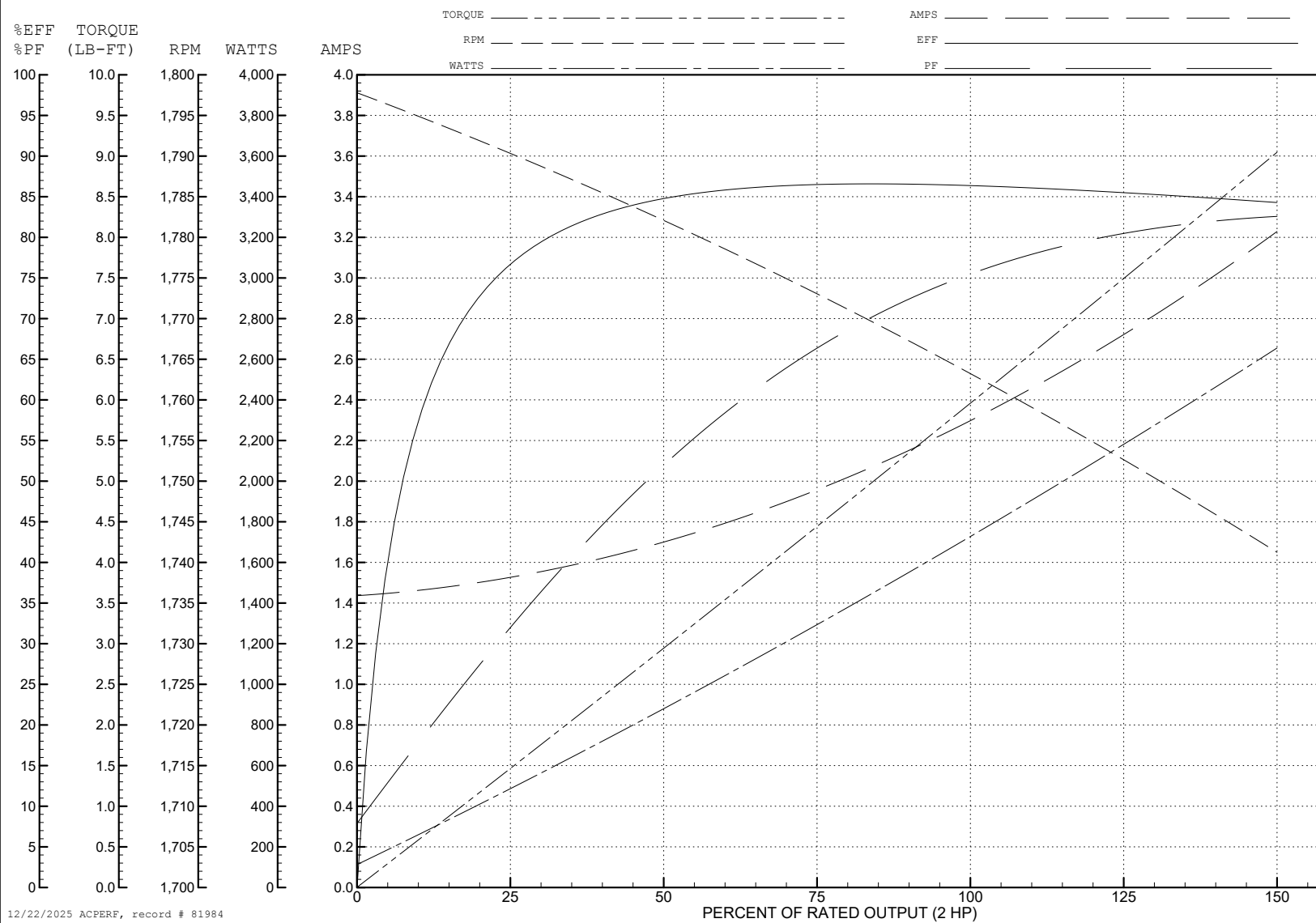
ABB Motors and Mechanical Inc.

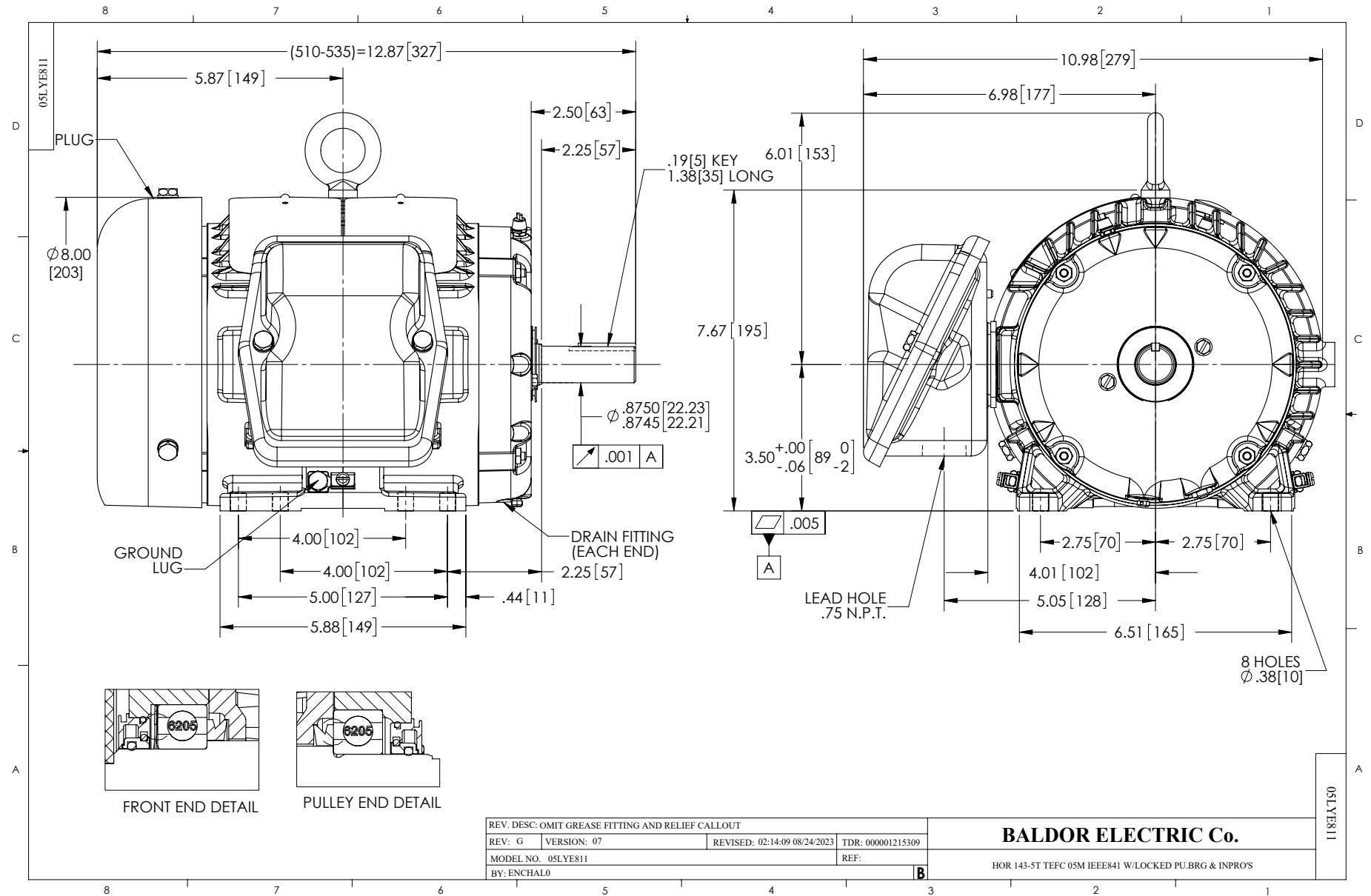
WINDING # 05WGX552

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1764 RPM 575 V 0526M

TORQUES (LB-FT): PO=24.3 PU=11.97 LR=16.23 LRA=18.92





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

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REV. LTR: E	VERSION: 01	TDR: 000001099922
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MTL: —		

BALDOR - RELIANCE®

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

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