



Customer information packet

ECP84117T-5

30HP, 1180RPM, 3PH, 60HZ, 326T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	326T
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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
Current @ Voltage	30.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGZ235
Layout	12LYG135
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	06
Leads	3#10
Proprietary	False
Created date	12-12-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1268M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.74 IN
Power Factor	80
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP4332

STK.NO.	ECP84117T-5			P/N					ENCLOSURE		TEFC			
SPEC.	12-0000-0369			CC	010A	FRAME	326T	S/N						
HP	30			CLASS	F	HZ	60	ODE BRG	6312	DE BRG	6312			
RPM	1180	RPM MAX	1800	PH	3	DES	B	D.E. BRG.	60BC03X30X					
VOLT	575			KVA-CODE	G		O.D.E. BRG.		60BC03X30X					
AMP	30			MOTOR WEIGHT			635	GREASE	POLYREX EM					
RATING	40C AMB-CONT				MAX. KVAR		9.8	BLANK						
NEMA-NOM-EFF	93	# OF ROTOR BARS			42	SER.F.	1.15	IP	56					
G.MIN.EFF	91.7	# OF STATOR SLOTS			54	PF	80	INV.TYPE	PWM					
TEMP CODE	T3	INVERTER-TEMP-CODE				200								
TEMP =	200	C HP FR	60	C HP TO	90									
CT HZ FROM	1	CT HZ TO	60											
HTR-VOLTS		HTR-AMPS		HTR-WATTS			MAX. SPACE HEATER TEMP.				VT HZ FROM	O	VT HZ TO	60

AC Induction Motor Performance Data

Record # 93184

Typical performance - not guaranteed values

Winding: 12WGZ235-R001				Type: 1268M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		30		Full Load Torque		134 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		30		Breakdown Torque		340 LB-FT	
R.P.M.		1180		Pull-up Torque		153 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		G	
Service Factor (S.F.)		1.15		Starting Current		174 A	
NEMA Nom. Eff.		93		Power Factor		80	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	76	80	82	81	81
Efficiency	90.6	93.5	94	93	92.5	91.1	92.9
Speed	1196	1191	1186	1180	1174	1166	1176
Line amperes	13.67	17.93	23.55	29.99	37.27	45.63	34.4

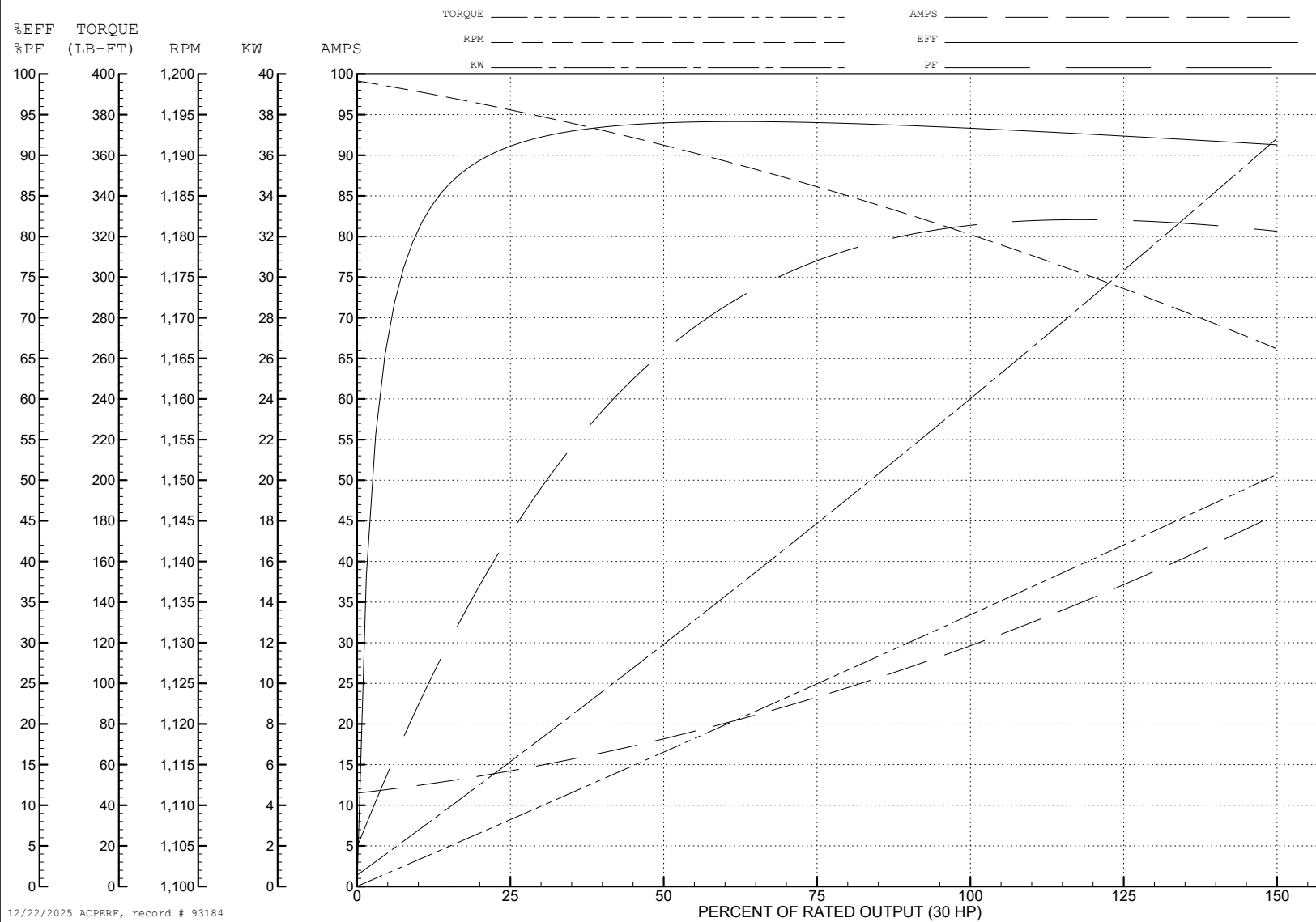
ABB Motors and Mechanical Inc.

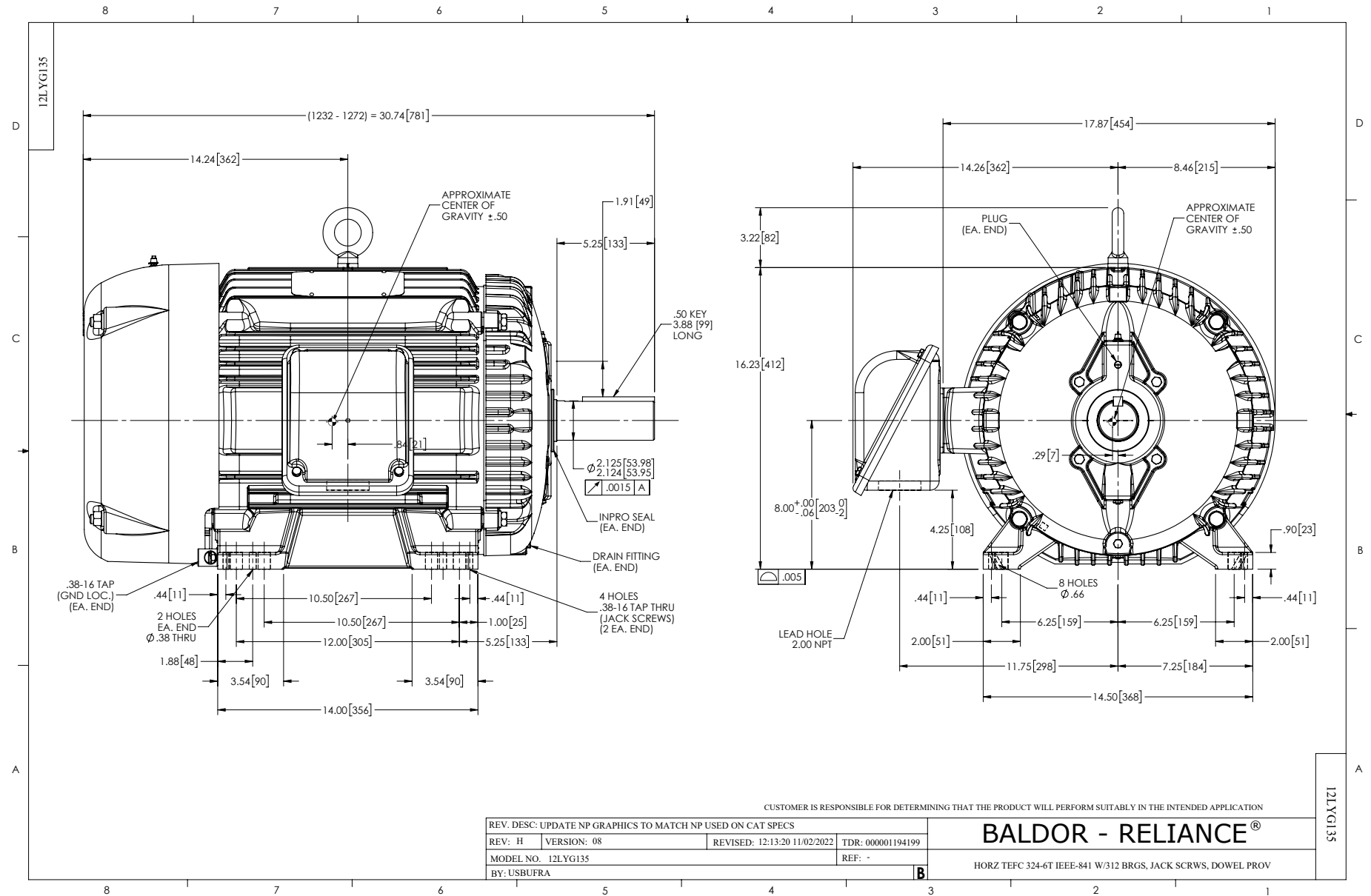
WINDING # 12WGZ235

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 575 V 1268M

TORQUES (LB-FT): PO=340 PU=153 LR=188 LRA=174





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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