

ABB BALDOR RELIANCE III

Customer information packet

EM4116T

25HP, 880RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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
Current @ Voltage	38.000 A @ 460.0 V 76.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a

Part Detail

Revision	D
Type	AC
Mech. spec.	12C51
Base	
Status	PRD/A
Elec. spec.	12WGZ325
Layout	12LYC051
Eff. date	01-14-2025
CD Diagram	CD0005
Poles	08
Leads	9#10
Proprietary	False
Created date	04-18-2023

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	30.28 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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

NP2138L

CAT.NO.	EM4116T				P/N						ENCLOSURE		TEFC			
SPEC.	12C051Z325			CC	010A	FRAME		326T		S/N						
HP	25				CLASS		F	HZ		60						
RPM	880				PH	3	DES		B							
VOLT	230/460								KVA-CODE		G	ODE BRG		6311	DE BRG	6312
AMP	76/38															
RATING	40C AMB-CONT				GREASE		POLYREX EM									
NEMA-NOM-EFF	90.2	PF	67	SER.F.		1.15										
HTR-VOLTS	HTR-AMPS															

AC Induction Motor Performance Data

Record # 95264

Typical performance - not guaranteed values

Winding: 12WGZ325-R001			Type: 1272M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		149 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		76/38		Breakdown Torque		352 LB-FT	
R.P.M.		880		Pull-up Torque		183 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		210 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		180 A
Service Factor (S.F.)		1.15		No-load Current		22.59 A	
NEMA Nom. Eff.		90.2	Power Factor	67	Line-line Res. @ 25°C		0.263 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C	
S.F. Amps				Temp. Rise @ S.F. Load		72°C	
				Locked-rotor Power Factor		32.8	
				Rotor inertia		9.59 lb-ft²	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	48	60	67	71	72	69
Efficiency	86	90.6	91.3	91	90	88.4	90.4
Speed	895	890	885	879	873	865	875
Line amperes	23.64	26.97	31.98	38.33	45.98	55.16	42.9

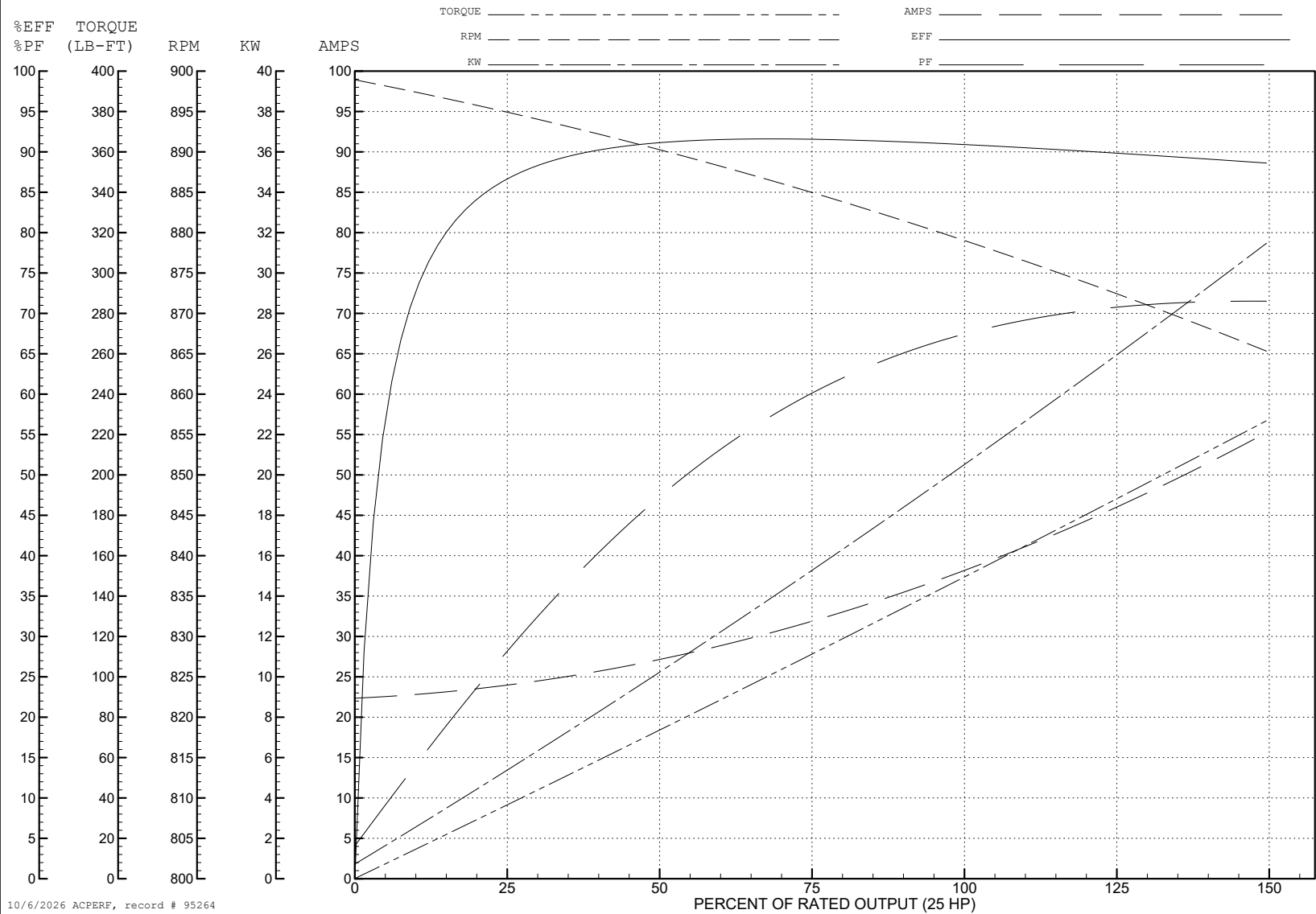
ABB Motors and Mechanical Inc.

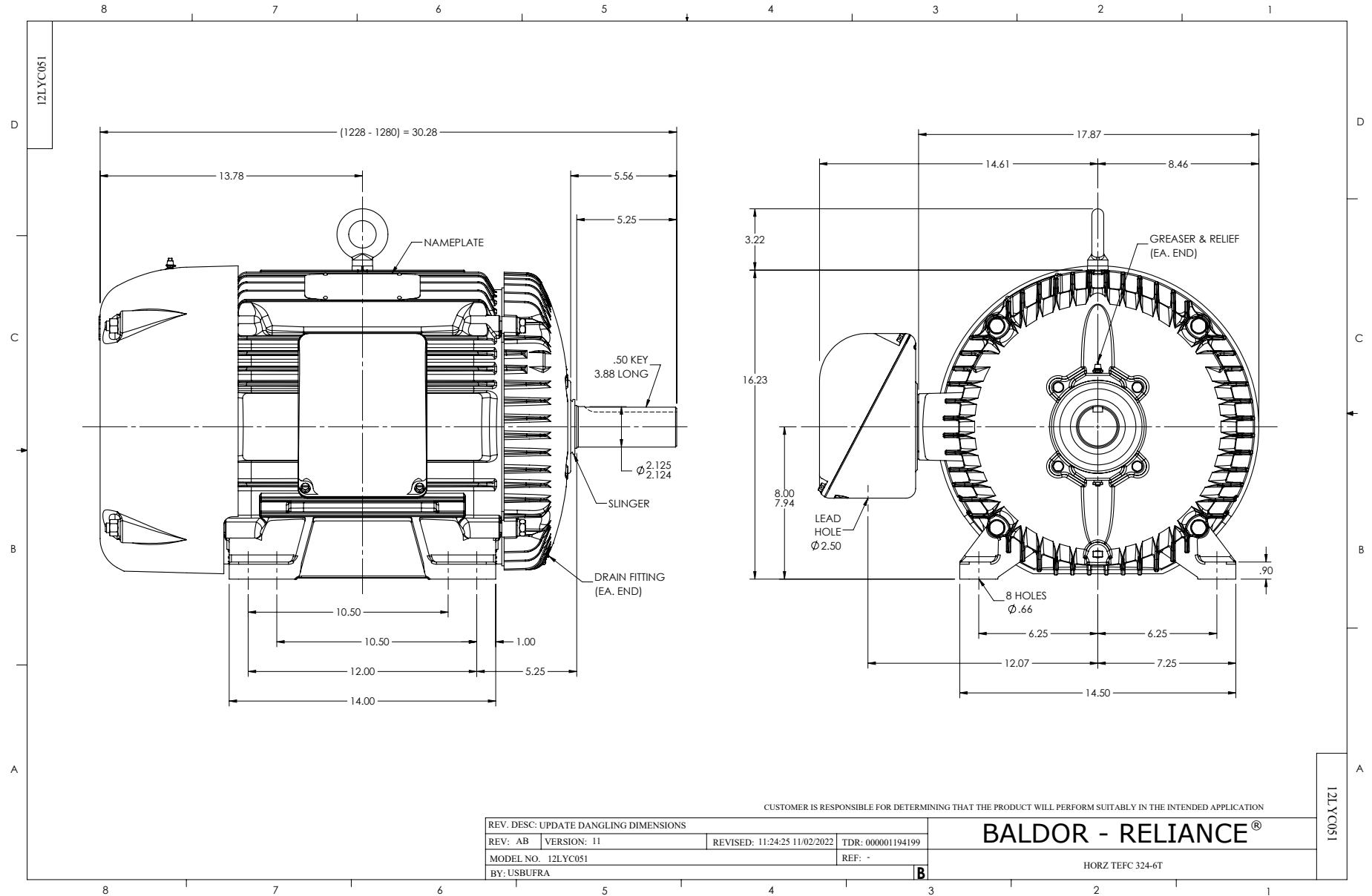
WINDING # 12WGZ325

Typical performance - not guaranteed values.

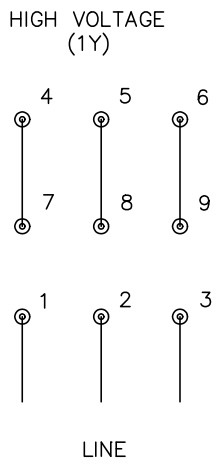
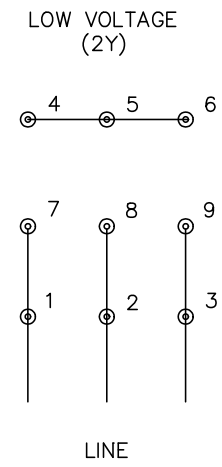
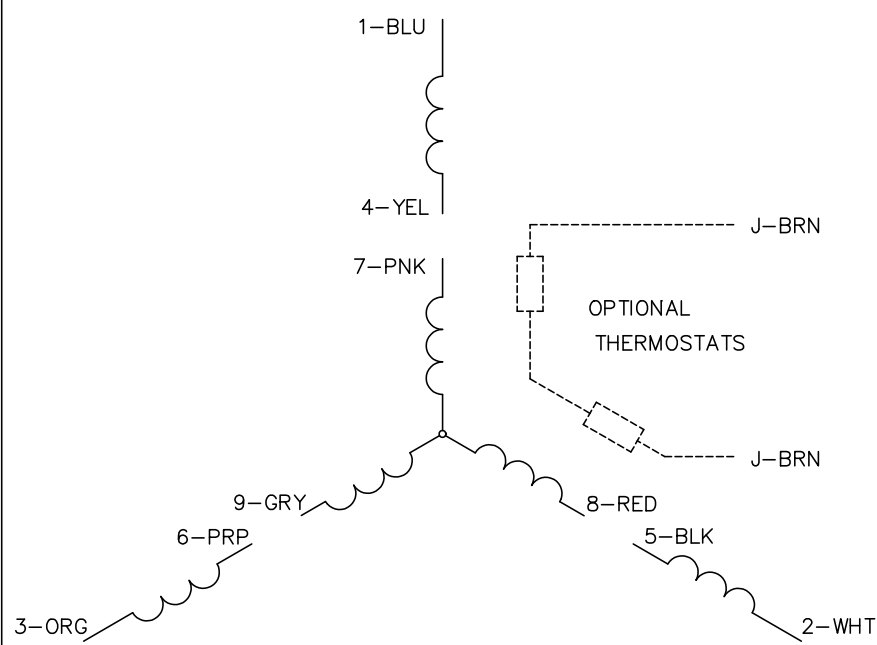
25 HP 3 PH 60 HZ 880 RPM 460 V 1272M

TORQUES (LB-FT): PO=352 PU=183 LR=210 LRA=180





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005