ABB BALDOR RELIANCE

Customer information packet

EM4116T

25HP, 880RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1
Class - None
Division - Not Applicable

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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

Nameplate

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**										

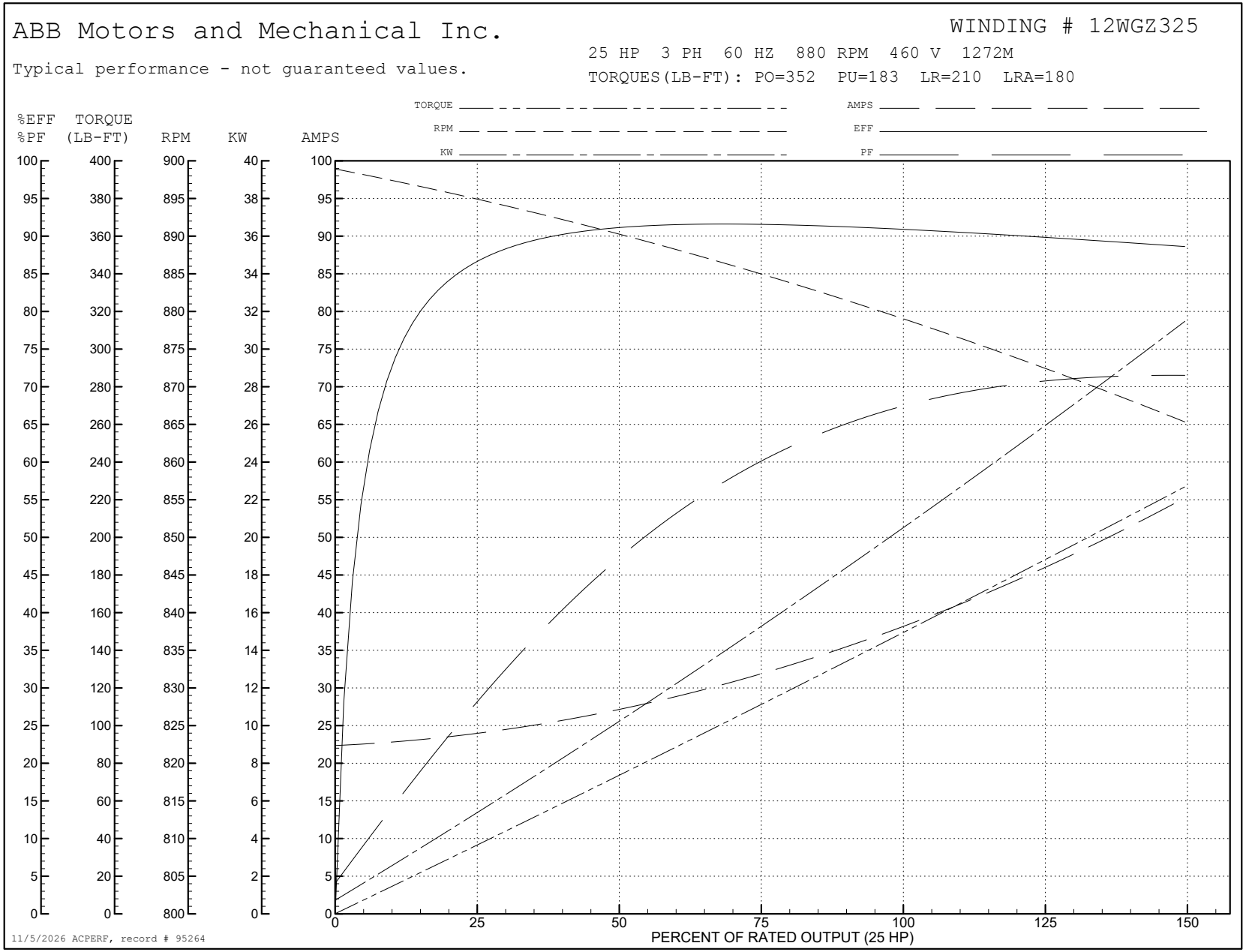
AC Induction Motor Performance Data
Record # 95264
Typical performance - not guaranteed values

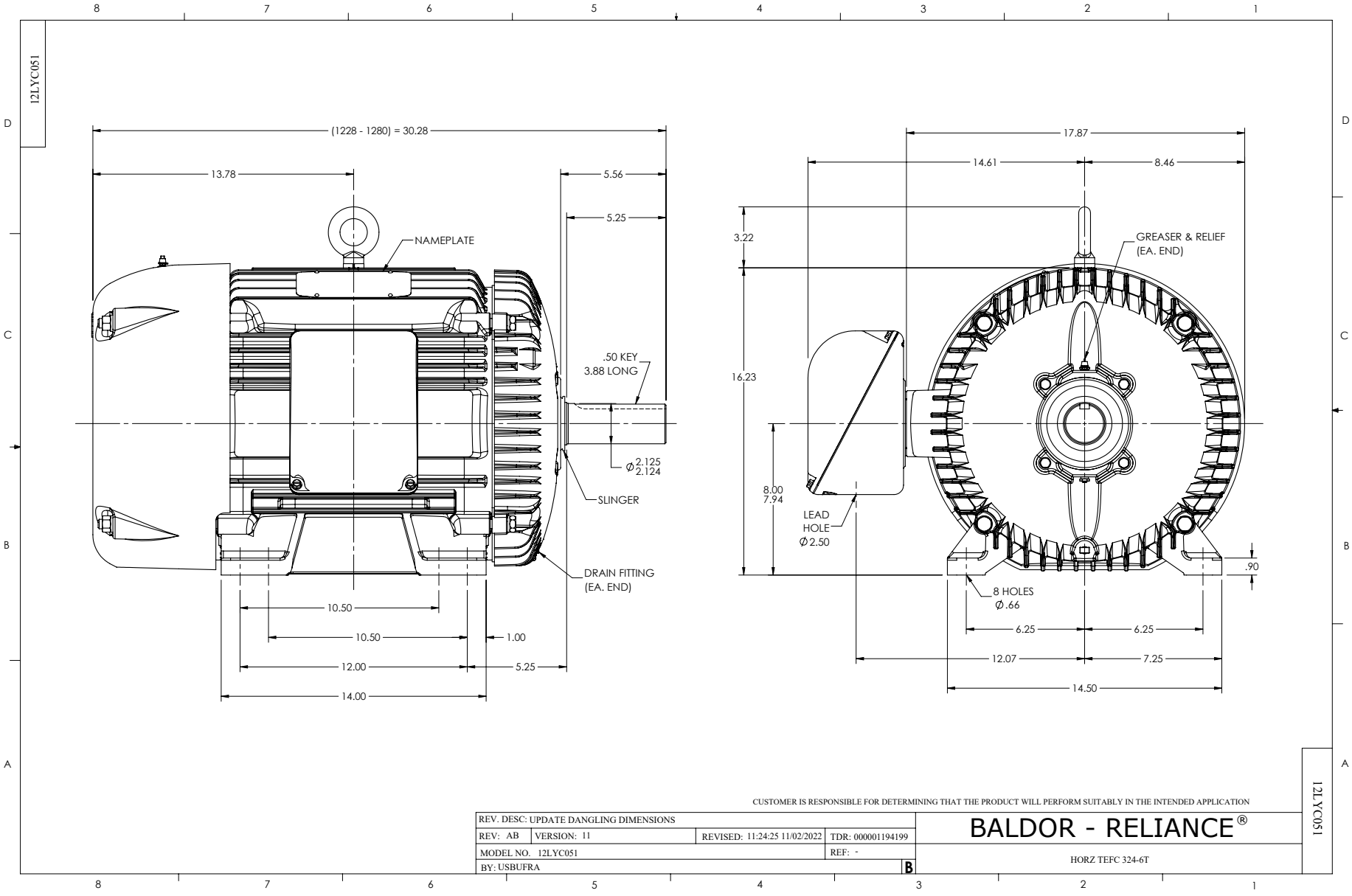
Winding: 12WGZ325-R001	**Type:** 1272M	**Enclosure:** TEFC

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. @ 25ºC**	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

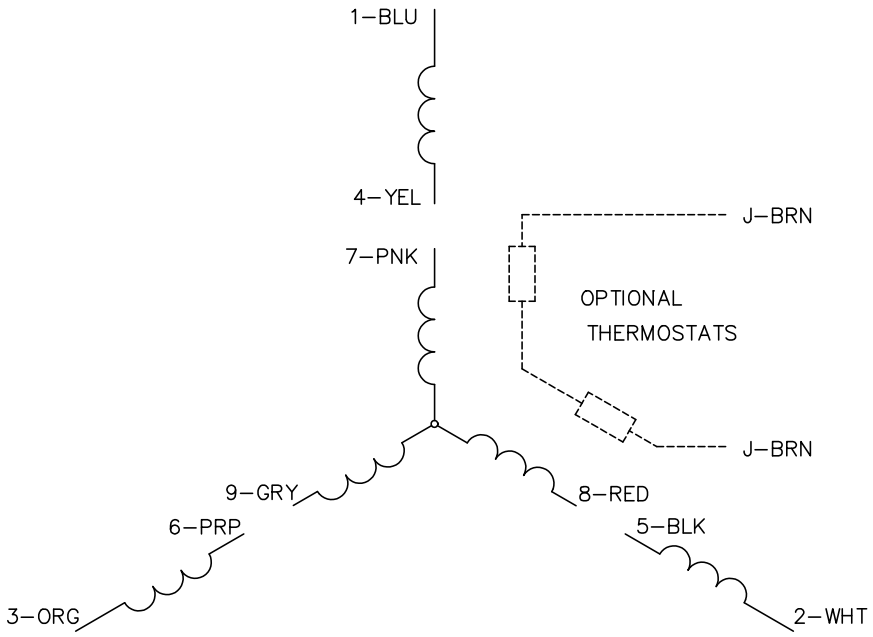
Load Characteristics 460 V, 60 Hz, 25 HP

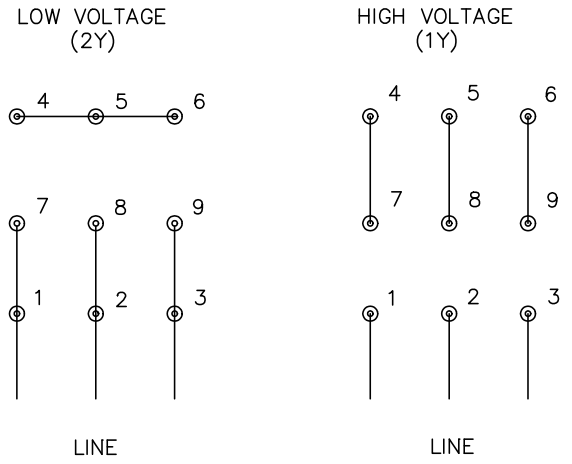
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	48	60	67	71	72	69
Efficiency	86	90.6	91.3	91	90	88.4	90.4
Speed	895	890	885	879	873	865	875
Line amperes	23.64	26.97	31.98	38.33	45.98	55.16	42.9


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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/5/2026 ACPERF, record # 95264


12LYC051
(1228 - 1280) = 30.28
13.78
5.56
5.25
NAMEPLATE
.50 KEY
3.88 LONG
Ø 2.125
2.124
SLINGER
DRAIN FITTING
(EA. END)
10.50
10.50
1.00
12.00
5.25
14.00
17.87
14.61
8.46
3.22
GREASER & RELIEF
(EA. END)
16.23
8.00
7.94
LEAD
HOLE
Ø 2.50
.90
8 HOLES
Ø .66
6.25
6.25
12.07
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DANGLING DIMENSIONS
REV: AB
VERSION: 11
REVISED: 11:24:25 11/02/2022
TDR: 000001194199
MODEL NO. 12LYC051
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 324-6T
12LYC051

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS