ABB BALDOR RELIANCE

Customer information packet

M4107

25HP, 3530RPM, 3PH, 60HZ, 324U, 1034M, TEFC, F1
Class -
Division - Not Applicable

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11/21/2026 1:00:57 AM

Specifications

Enclosure	TEFC
Frame	324U
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	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
Current @ Voltage	29.000 A @ 460.0 V
	58.000 A @ 230.0 V
	63.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.0 a

Part Detail

Revision	K
Type	AC
Mech. spec.	10F644
Base	
Status	INA/A
Elec. spec.	10WGY338
Layout	10LYF644
Eff. date	09-24-2020
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	03-26-2007

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1034M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.76 IN
Power Factor	89
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3530 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

NP1256L									
CAT.NO.	M4107								
SPEC.	10F644Y338G1								
HP	25								
VOLTS	230/460								
AMP	58/29								
RPM	3530								
FRAME	324U	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	91	**PF**	89						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6309						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8
12EP1501A03SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 36444
Typical performance - not guaranteed values

Winding: 10WGY338-R002	**Type:** 1034M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	37.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			58/29	**Breakdown Torque**	138 LB-FT
R.P.M.			3530	**Pull-up Torque**	44.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	62.7 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	186 A
Service Factor (S.F.)			1.15	**No-load Current**	8.64 A
NEMA Nom. Eff.	91	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.313 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	25
				Rotor inertia	1.46 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	80	86	89	90	89	90
Efficiency	83.2	89.5	91	91.3	90.9	90	91.1
Speed	3581	3565	3548	3529	3509	3484	3517
Line amperes	11.3	16.3	22.1	28.6	35.8	43.8	32.9

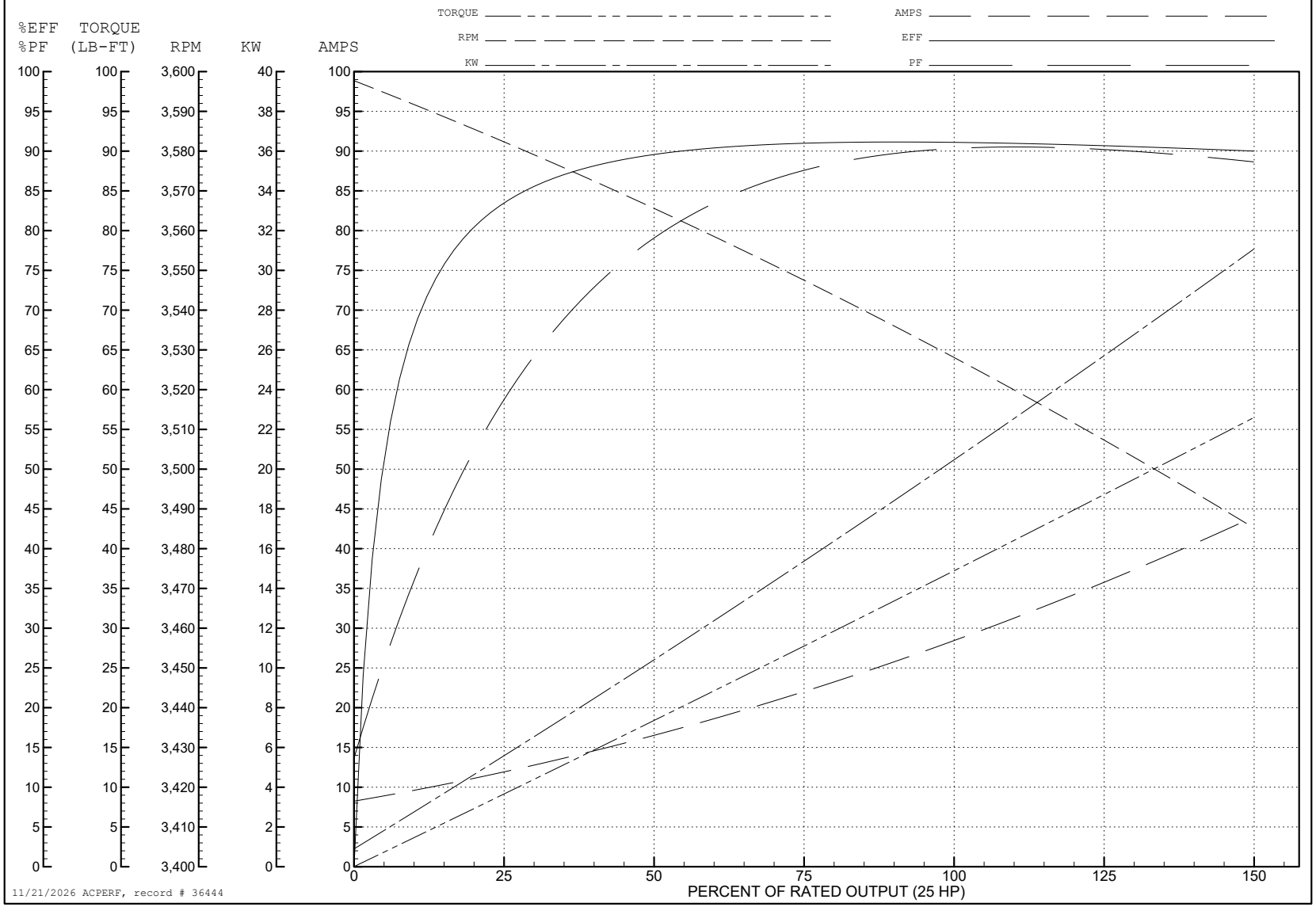
ABB Motors and Mechanical Inc.

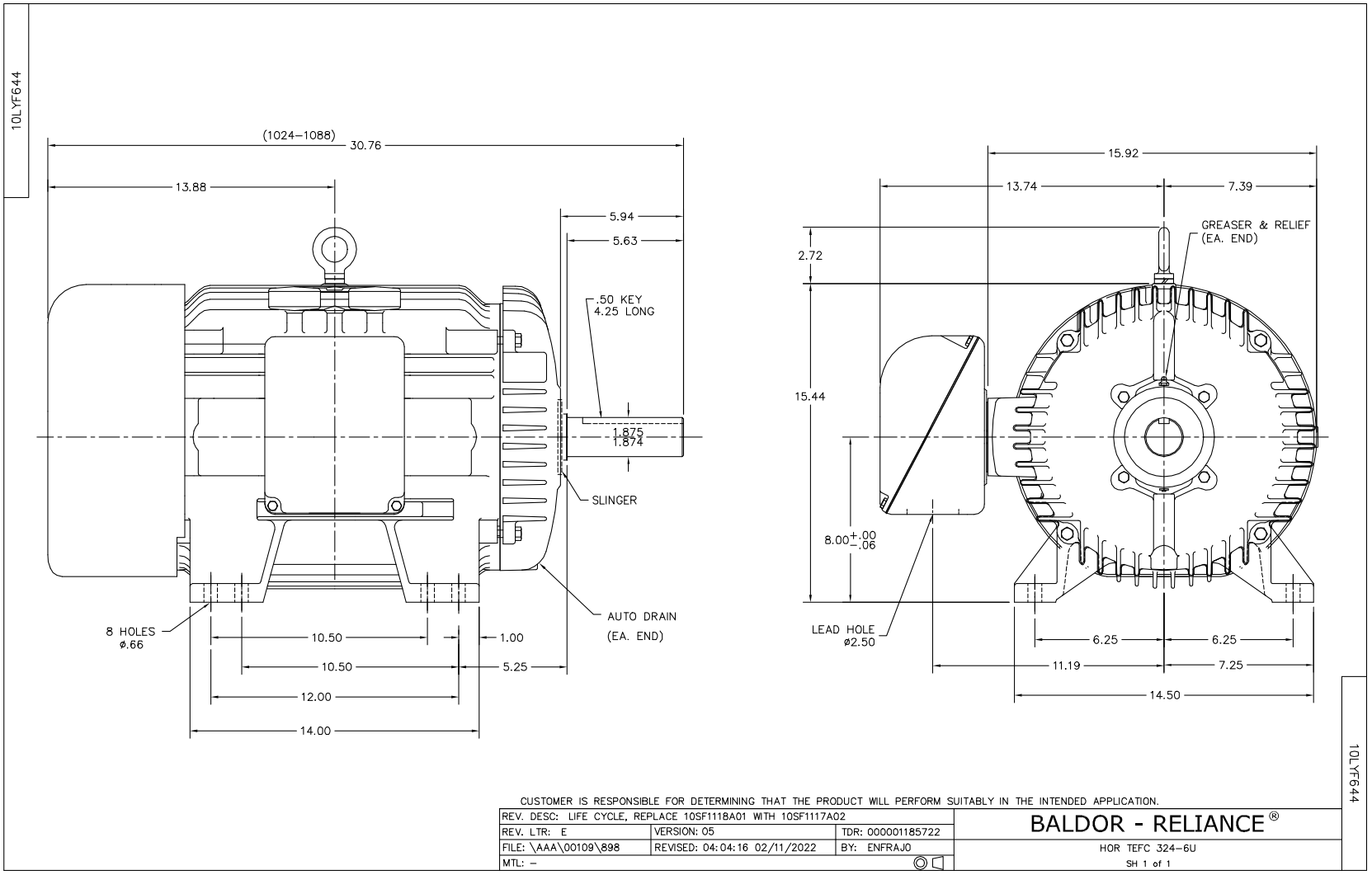
WINDING # 10WGY338

Typical performance - not guaranteed values.

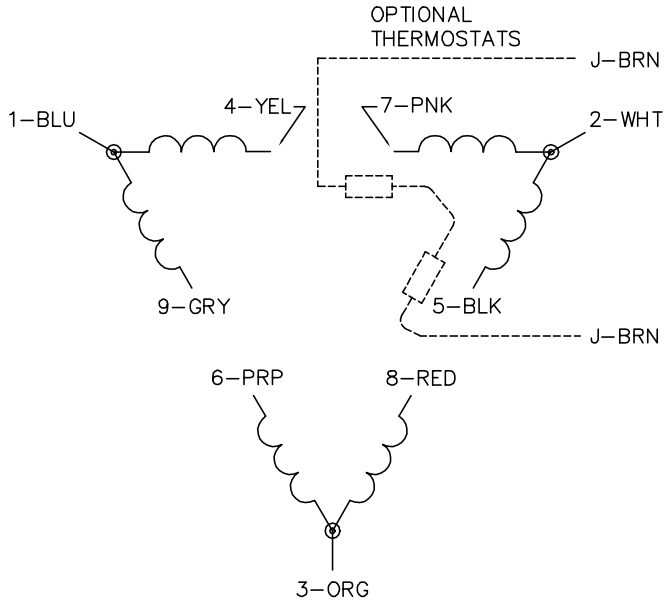
25 HP 3 PH 60 HZ 3530 RPM 460 V 1034M

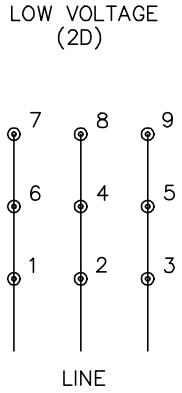
TORQUES(LB-FT): PO=138 PU=44.4 LR=62.7 LRA=186

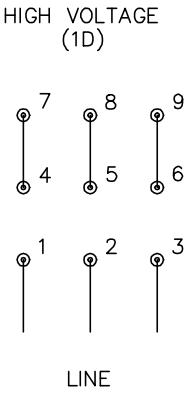



10LYF644
(1024–1088)
30.76
13.88
5.94
5.63
.50 KEY
4.25 LONG
1.875
1.874
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
ø.66
10.50
1.00
10.50
5.25
12.00
14.00
15.92
13.74
7.39
GREASER & RELIEF
(EA. END)
2.72
15.44
8.00 +.00 −.06
LEAD HOLE
ø2.50
6.25
6.25
11.19
7.25
14.50
10LYF644
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: LIFE CYCLE, REPLACE 10SF1118A01 WITH 10SF1117A02
REV. LTR: E
VERSION: 05
TDR: 000001185722
FILE: \AAA\00109\898
REVISED: 04:04:16 02/11/2022
BY: ENFRAJO
MTL: –
BALDOR - RELIANCE®
HOR TEFC 324–6U
SH 1 of 1

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1