ABB BALDOR RELIANCE

Customer information packet

M4104

30HP, 1765RPM, 3PH, 60HZ, 326U, 1044M, TEFC, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326U
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	37.000 A @ 460.0 V
	74.000 A @ 230.0 V
	79.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	37.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	10F644
Base	
Status	NLA/A
Elec. spec.	10WGX259
Layout	10LYF644
Eff. date	03-03-2016
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	04-29-2010

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	1044M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.76 IN
Power Factor	82
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	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

NP1256L								
CAT.NO.								
SPEC.	10F644X259H2							
HP	30							
VOLTS	230/460							
AMP	74/37							
RPM	1765							
FRAME	326U	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	92.4	**PF**	82					
RATING	40C AMB-CONT							
CC	010A							
DE	6312	**ODE**	6309					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 2576
Typical performance - not guaranteed values

Winding: 10WGX259-R001	**Type:** 1044M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	89.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			74/37	**Breakdown Torque**	253 LB-FT
R.P.M.			1765	**Pull-up Torque**	127 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	148 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	217 A
Service Factor (S.F.)			1.15	**No-load Current**	14.63 A
NEMA Nom. Eff.	92.4	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.259 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	33
				Rotor inertia	3.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	78	82	84	84	83
Efficiency	86.2	91.2	92.4	92.4	91.9	91.1	92.1
Speed	1792	1784	1776	1768	1759	1749	1763
Line amperes	17.16	22.38	29.17	37	45.6	55.1	42.1

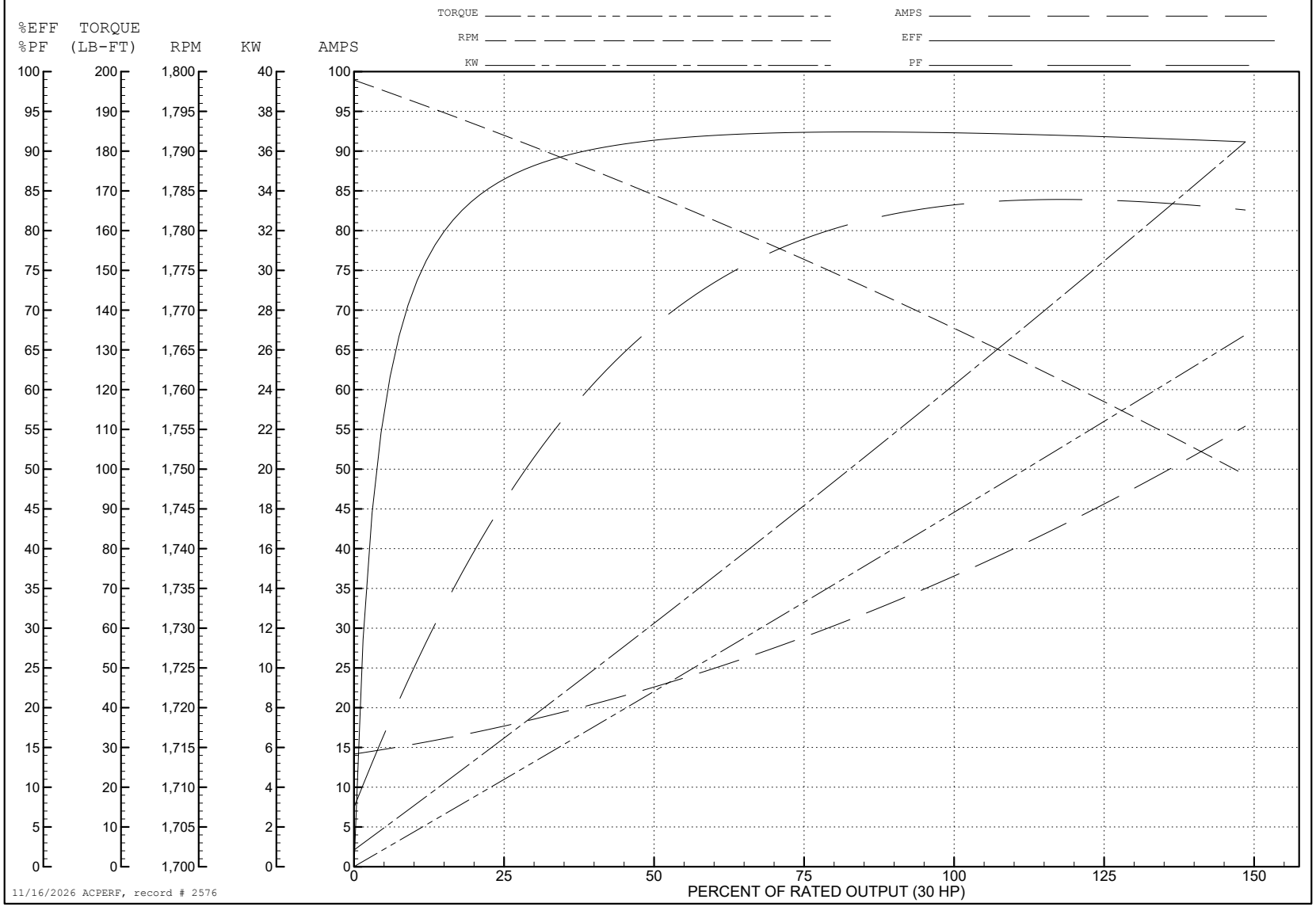
ABB Motors and Mechanical Inc.

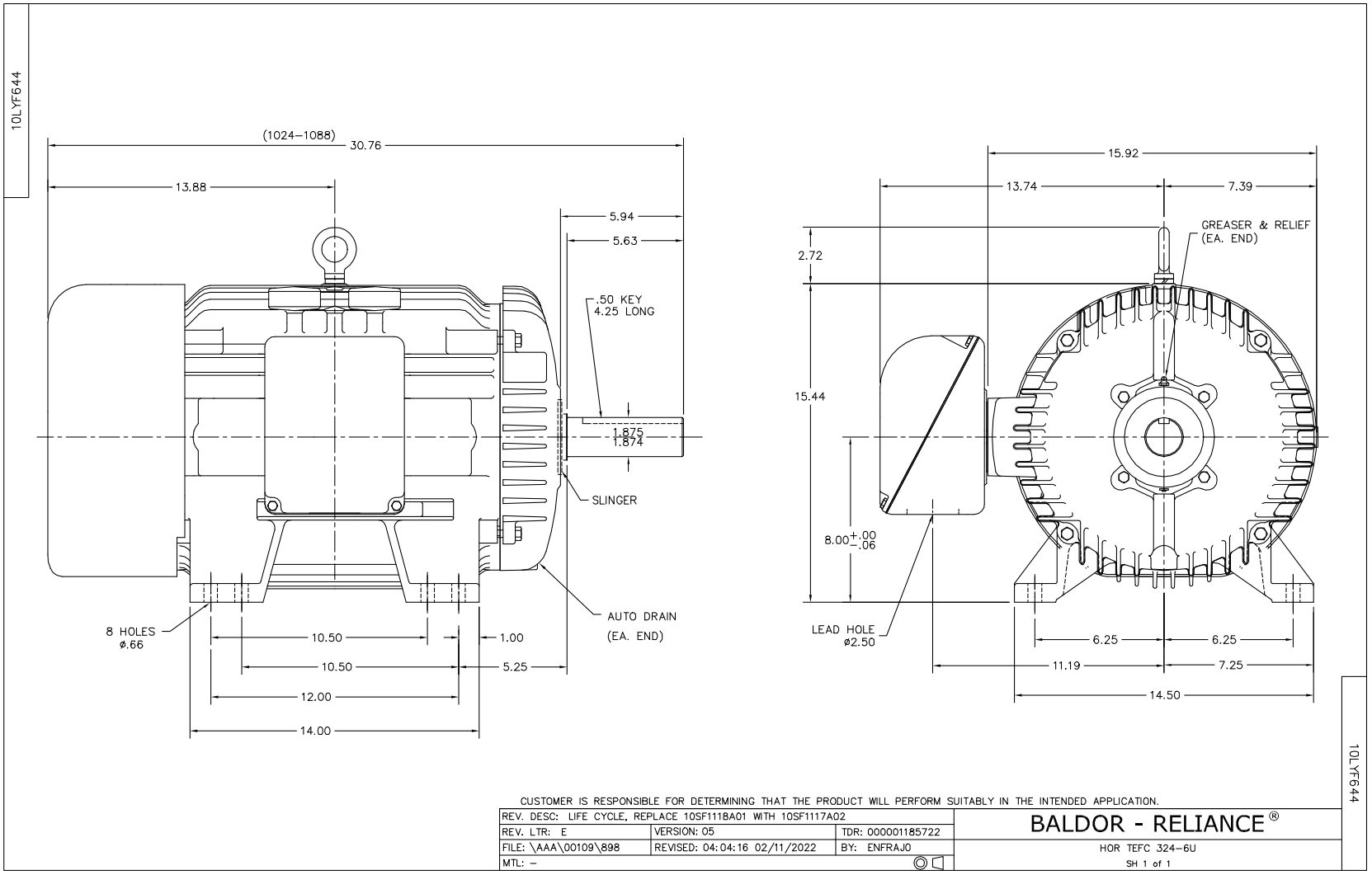
WINDING # 10WGX259

30 HP 3 PH 60 HZ 1765 RPM 460 V 1044M

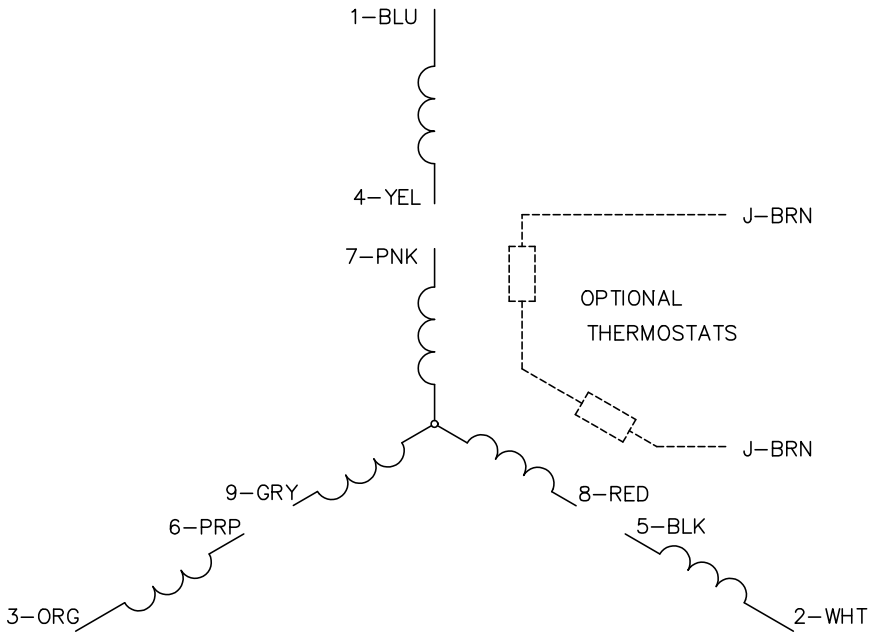
Typical performance - not guaranteed values.

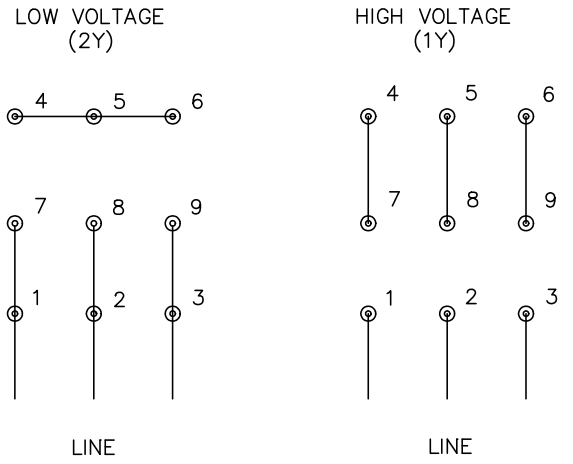
TORQUES(LB-FT): PO=253 PU=127 LR=148 LRA=217




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

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