

ABB BALDOR RELIANCE III

Customer information packet

FDEM4108T

30HP, 3520RPM, 3PH, 60HZ, 286TS, 0950M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286TS
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	30.000 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 CSA EEV 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	68.000 A @ 230.0 V 74.000 A @ 208.0 V 34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	09L813
Base	
Status	PRD/A
Elec. spec.	09WGT474
Layout	09LYL813
Eff. date	12-16-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	11-09-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
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	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.71 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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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

NP3126L									
CAT.NO.	FDEM4108T								
SPEC.	09L813T474G1								
HP	30								
VOLTS	230/460								
AMP	68/34								
RPM	3520								
FRAME	286TS		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	91.7	PF	89						
RATING	40C AMB-CONT								
CC	010A								
DE	6311		ODE	6208					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 67631

Typical performance - not guaranteed values

Winding: 09WGT474-R001			Type: 0950M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		44.65 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		68/34	Breakdown Torque		173 LB-FT		
R.P.M.		3520	Pull-up Torque		87.6 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		104 LB-FT		
NEMA Design Code		A KVA Code	J		Starting Current		283 A
Service Factor (S.F.)		1.15	No-load Current		10.9 A		
NEMA Nom. Eff.		91.7 Power Factor	90		Line-line Res. @ 25°C		0.2527 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		79°C		
S.F. Amps			Temp. Rise @ S.F. Load		97°C		
			Locked-rotor Power Factor		28		

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	86	89	90	91	90
Efficiency	87.7	91.8	92.4	92.1	91.3	90.2	91.6
Speed	3580.7	3562.2	3542.3	3521	3497.7	3471	3507
Line amperes	13.7	19.4	26.4	34.2	42.4	51.3	39.1

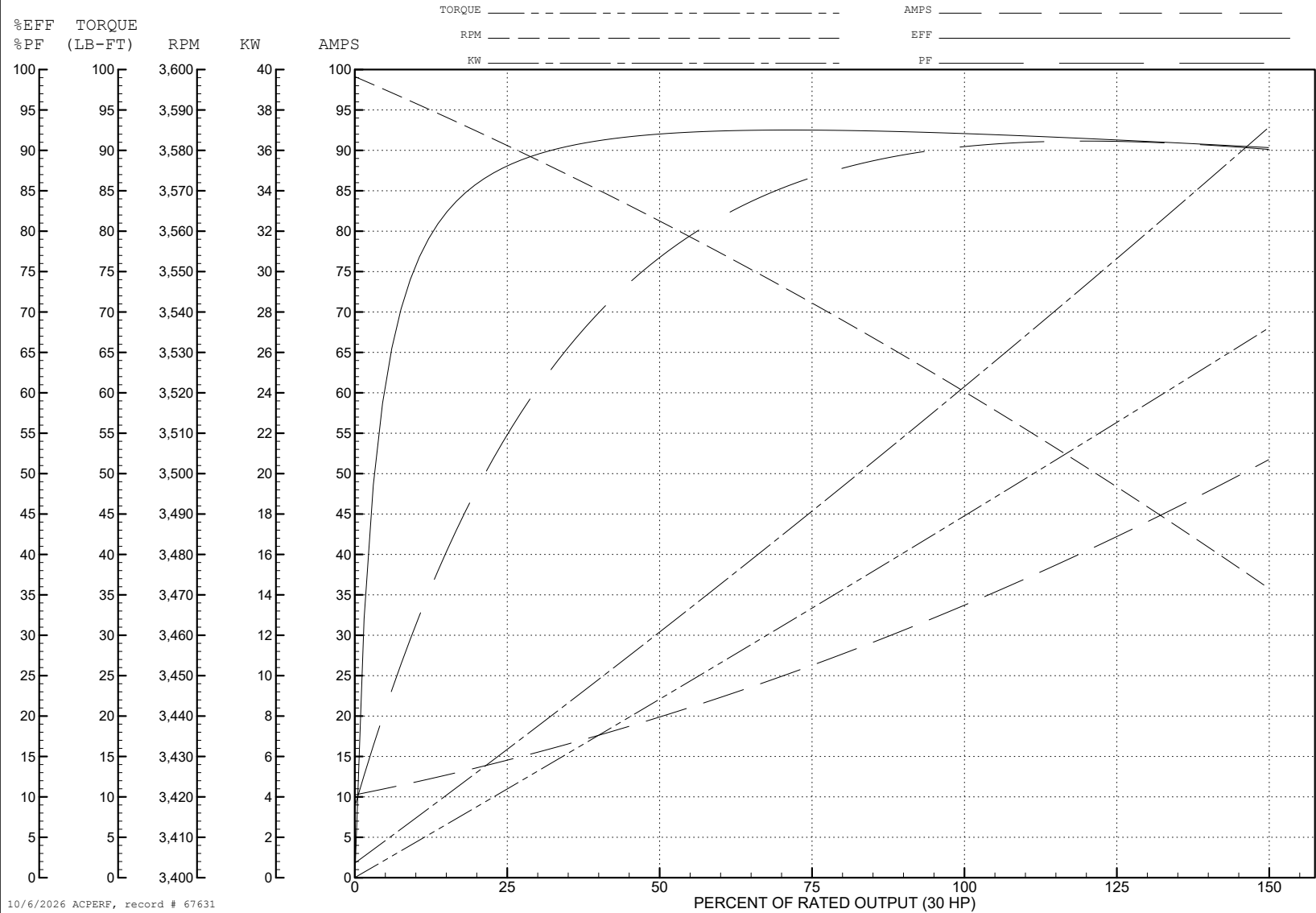
ABB Motors and Mechanical Inc.

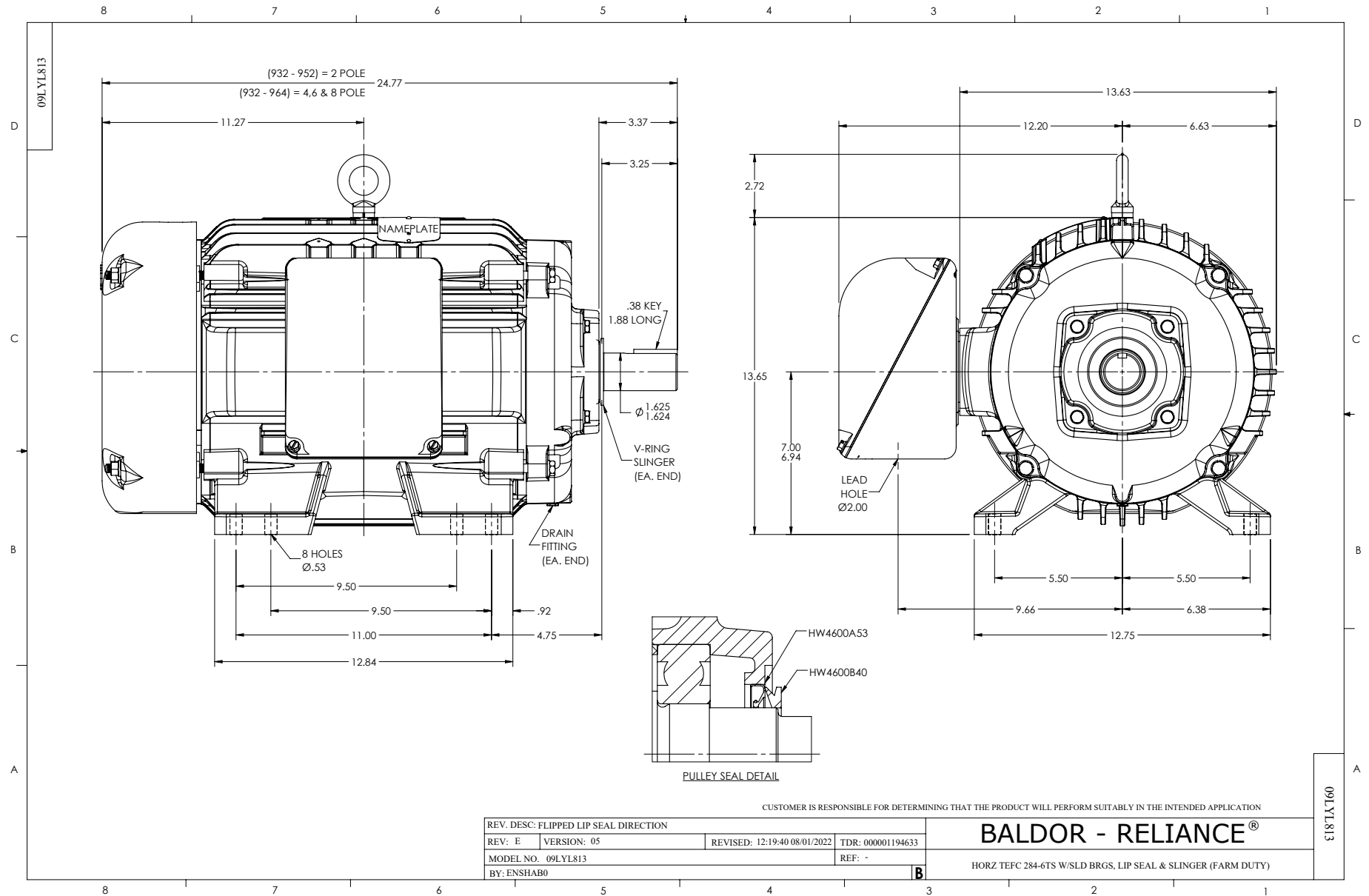
WINDING # 09WGT474

Typical performance - not guaranteed values.

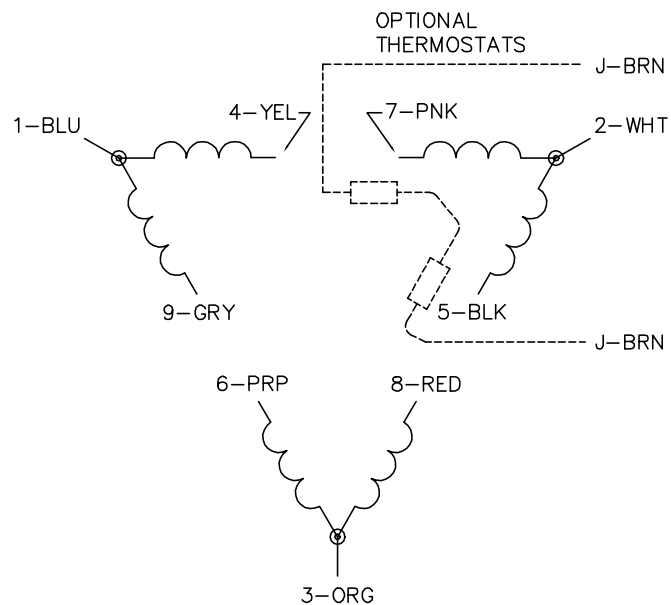
30 HP 3 PH 60 HZ 3520 RPM 460 V 0950M

TORQUES (LB-FT): PO=173 PU=87.6 LR=104 LRA=283

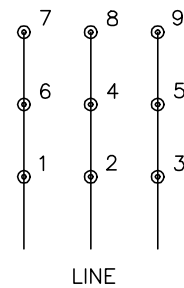




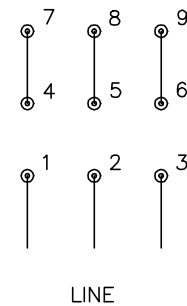
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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