



Customer information packet

FDEM4108T-5

50M 2P TEFC HOR 286TS FARM DUTY SE

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	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	28.000 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F

Part detail

Revision	M
Type	AC
Mech. spec.	09L813
Base	
Status	PRD/A
Elec. spec.	09WGT509
Layout	09LYL813
Eff. date	12-16-2025
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	06-14-2018

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.77 IN
Power Factor	88
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 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-5								
SPEC.	09L813T509G1								
HP	30								
VOLTS	575								
AMP	28								
RPM	3520								
FRAME	286TS		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	91.7	PF	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6311		ODE	6208					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 68011

Typical performance - not guaranteed values

Winding: 09WGT509-R001			Type: 0950M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		30	Full Load Torque		44.62 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		28	Breakdown Torque		181 LB-FT		
R.P.M.		3520	Pull-up Torque		92.38 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		110 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		238 A
Service Factor (S.F.)		1.15	No-load Current		9.64 A		
NEMA Nom. Eff.		91.7	Power Factor	88	Line-line Res. @ 25°C		0.367 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		79°C	
S.F. Amps				Temp. Rise @ S.F. Load		96°C	
				Locked-rotor Power Factor		28.2	
				Rotor inertia		1.28 lb-ft²	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	76	84	88	90	90	89
Efficiency	87.4	91.7	92.4	92.1	91.4	90.4	91.7
Speed	3581	3563	3544	3523	3501	3475	3510
Line amperes	11.76	16.13	21.62	27.74	34.22	41.24	31.6

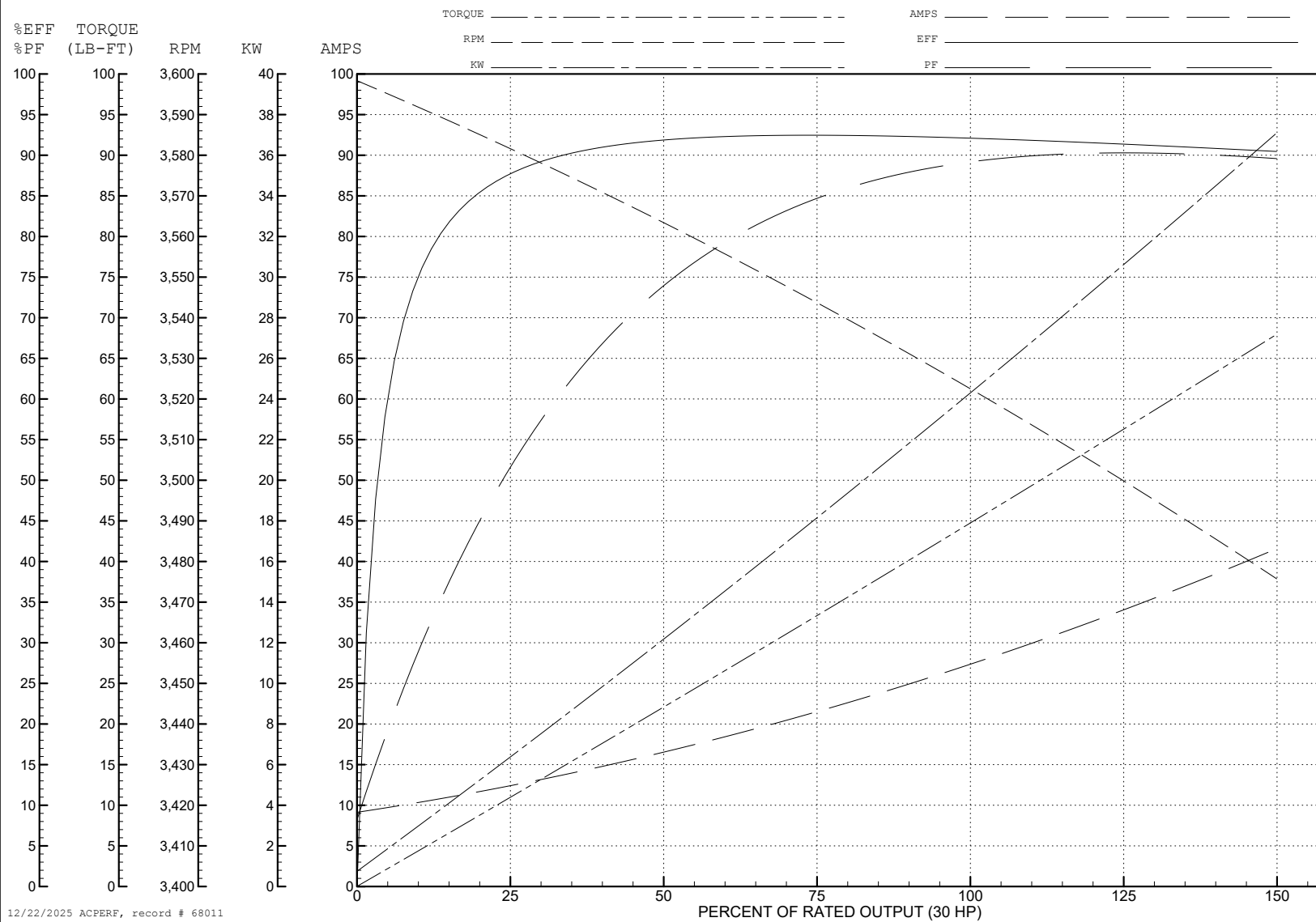
ABB Motors and Mechanical Inc.

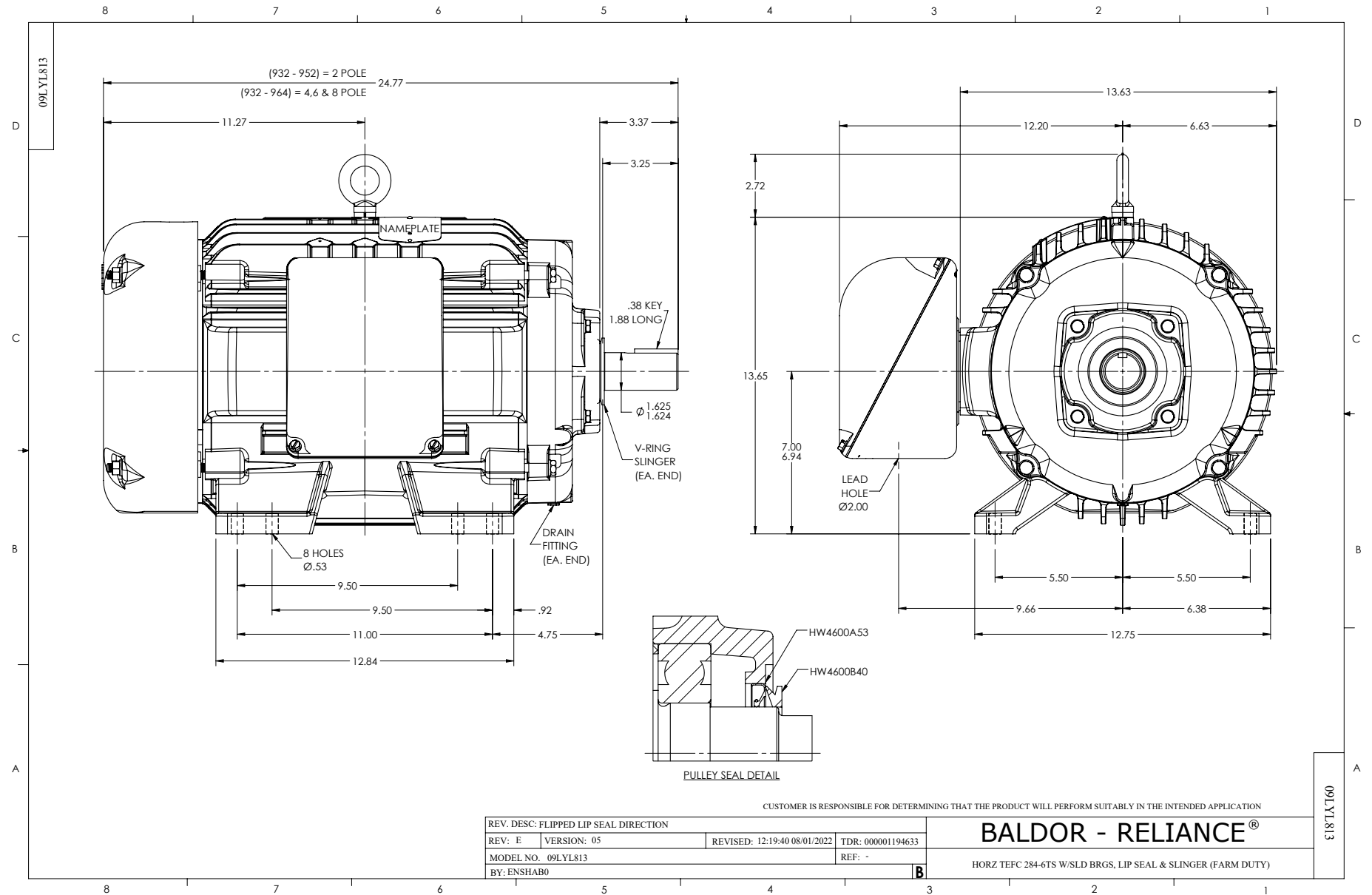
WINDING # 09WGT509

Typical performance - not guaranteed values.

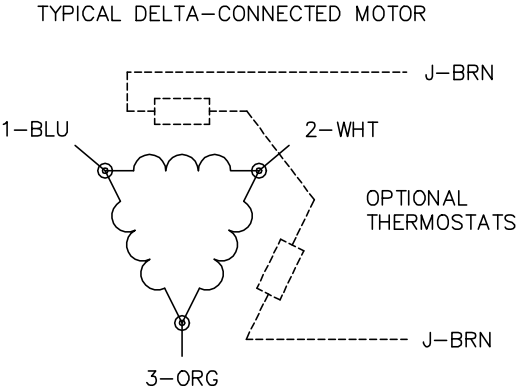
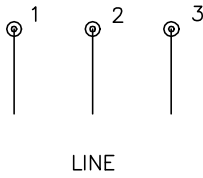
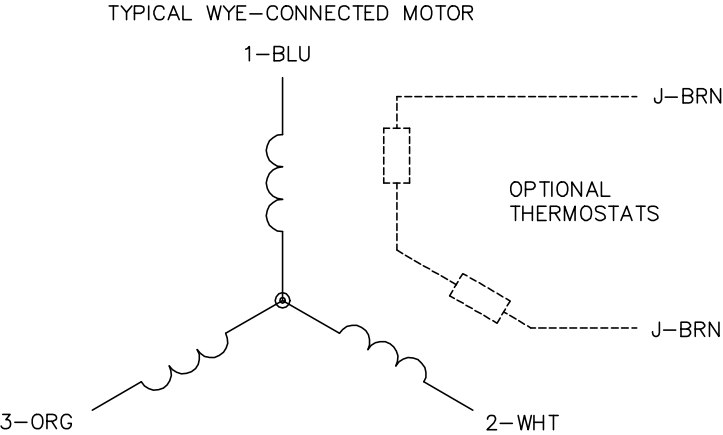
30 HP 3 PH 60 HZ 3520 RPM 575 V 0950M

TORQUES (LB-FT): PO=181 PU=92.38 LR=110 LRA=238





CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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