

ABB BALDOR RELIANCE III

Customer information packet

EM3211T-5G

3HP, 1765RPM, 3PH, 60HZ, 182T, 3630M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA 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	3.400 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	3.4 a
Insulation Class	H

Part Detail

Revision	N
Type	AC
Mech. spec.	36M526
Base	
Status	PRD/A
Elec. spec.	36WGS763
Layout	36LYM526
Eff. date	03-13-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	09-10-2013

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	74
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP3553L									
CAT.NO.	EM3211T-5G								
SPEC	36M526S763G1								
HP	3								
VOLTS	575								
AMPS	3.4								
RPM	1765								
FRAME	182T		HZ	60			PH	3	
SF	1.15	CODE	K	DES	B	CLASS	H		
NEMA NOM. EFF	89.5	PF	74						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

AC Induction Motor Performance Data

Record # 50481

Typical performance - not guaranteed values

Winding: 36WGS763-R002			Type: 3630M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		8.85 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		3.4	Breakdown Torque		37.8 LB-FT		
R.P.M.		1765	Pull-up Torque		17.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		21.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		26.2 A
Service Factor (S.F.)		1.15	No-load Current		1.99 A		
NEMA Nom. Eff.		89.5	Power Factor	74	Line-line Res. @ 25°C		5.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	
				Locked-rotor Power Factor		43.2	
				Rotor inertia		0.279 LB-FT2	

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	53	66	73	78	81	76
Efficiency	79.9	87.5	89.5	89.8	89.6	88.4	89.7
Speed	1791	1783	1775	1766	1756	1745	1760
Line amperes	2.12	2.43	2.87	3.42	4	4.69	3.77

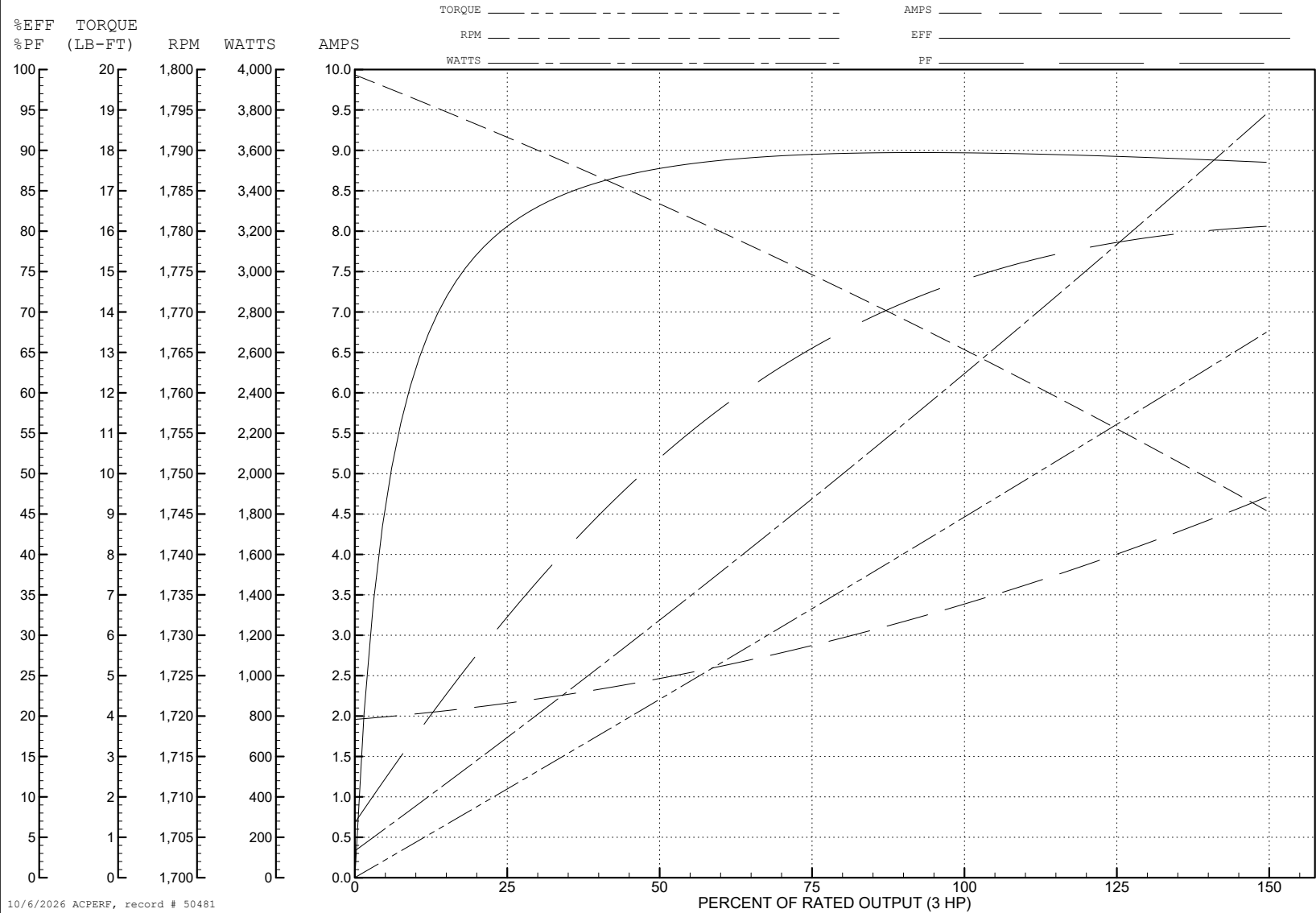
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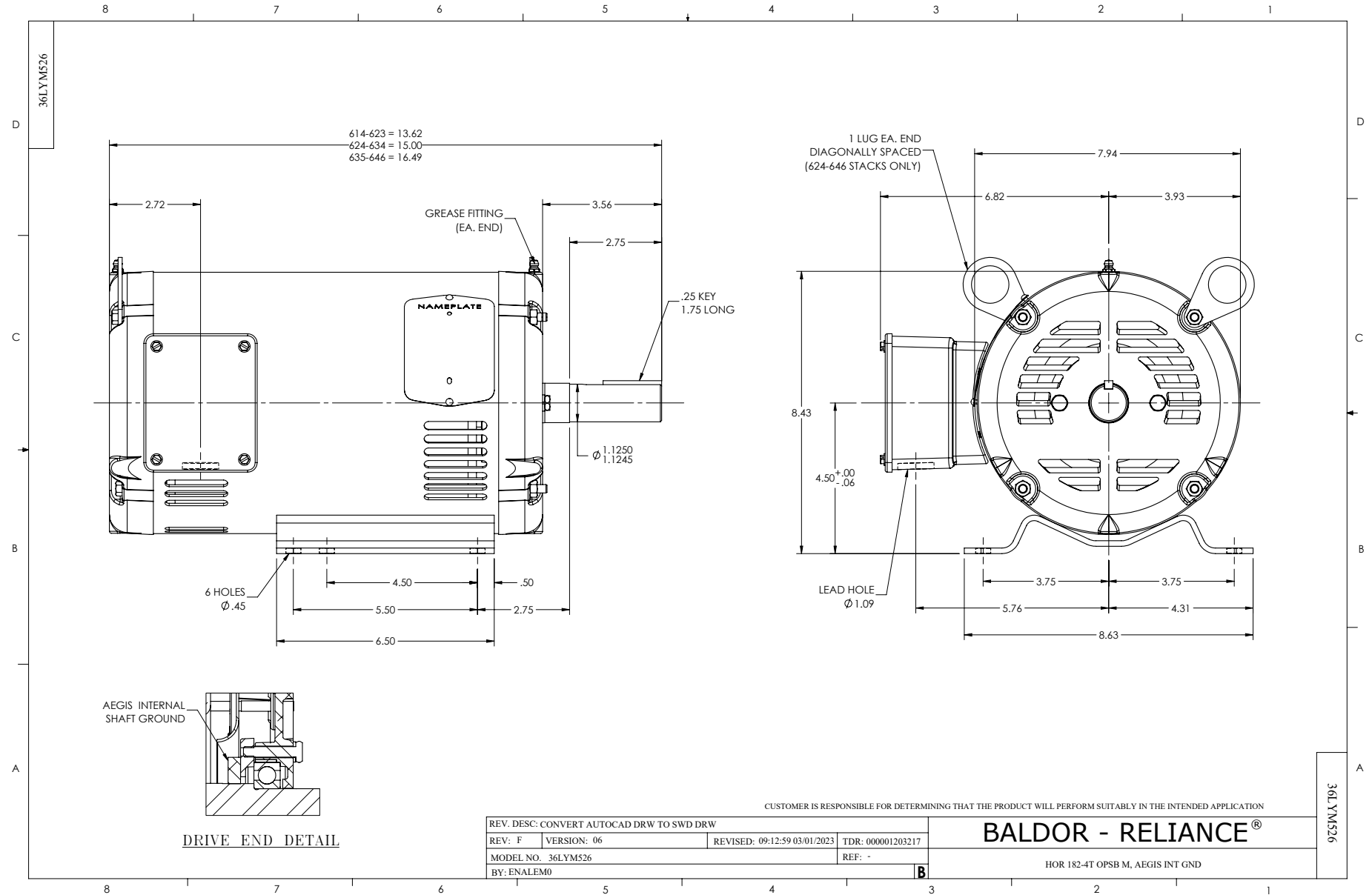
WINDING # 36WGS763

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 575 V 3630M

TORQUES (LB-FT): PO=37.8 PU=17.5 LR=21.5 LRA=26.2





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

J-BRN

OPTIONAL THERMOSTATS

J-BRN

3-ORG

2-WHT

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

J-BRN

2-WHT

OPTIONAL THERMOSTATS

J-BRN

3-ORG

1

2

3

LINE

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			BALDOR - RELIANCE® 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED SH 1 of 1
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO	
MTL: —			

36WGS658: Electrical Design

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