

ABB BALDOR RELIANCE III

Customer information packet

EM3218T-5

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	184T
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	5.300 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	5.3 a
Insulation Class	F

Part Detail

Revision	V
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGS594
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	06-29-2011

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3640M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	80
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	EM3218T-5								
SPEC	36G548S594G2								
HP	5								
VOLTS	575								
AMPS	5.3								
RPM	1750								
FRAME	184T		HZ	60			PH	3	
SF	1.15	CODE	J	DES	B	CLASS	F		
NEMA NOM. EFF	89.5	PF	80						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6206		ODE	6205					
VPWM INVERTER READY		SFA 6							
CT30-60(2:1) VT3-60(20:1)									

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 32599

Typical performance - not guaranteed values

Winding: 36WGS594-R001			Type: 3640M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		5.3	Breakdown Torque		44.3 LB-FT		
R.P.M.		1750	Pull-up Torque		25.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		29.8 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		35.7 A
Service Factor (S.F.)		1.15	No-load Current		2.35 A		
NEMA Nom. Eff.		89.5	Power Factor	80	Line-line Res. @ 25°C		4.15 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps					Temp. Rise @ S.F. Load		55°C
					Locked-rotor Power Factor		40.8
					Rotor inertia		0.372 LB-FT ²

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	64	75	80	83	84	82
Efficiency	84.5	89.2	89.7	89.3	88.1	86	88.6
Speed	1789	1778	1767	1753	1739	1721	1745
Line amperes	2.64	3.29	4.19	5.26	6.43	7.74	5.96

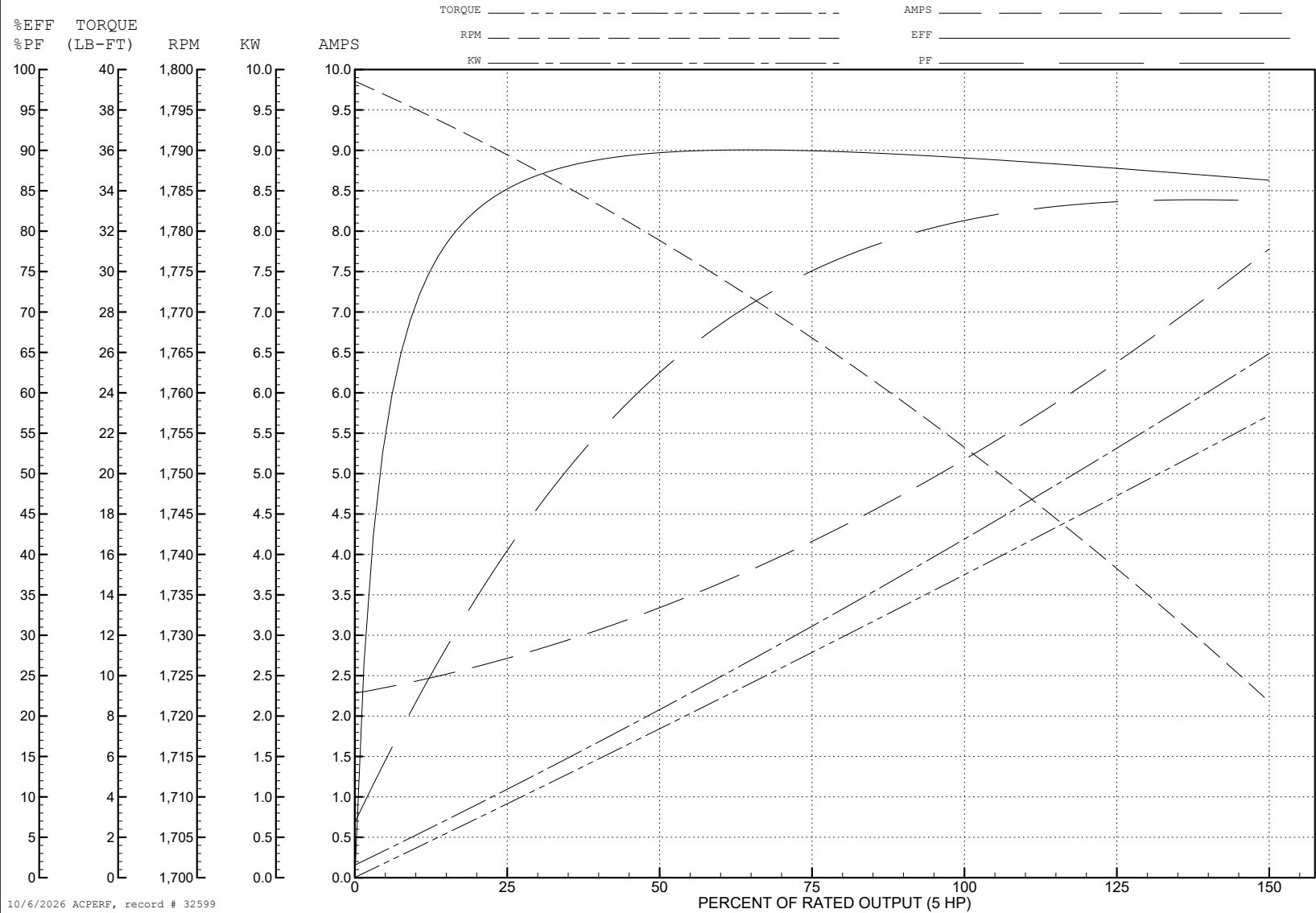
ABB Motors and Mechanical Inc.

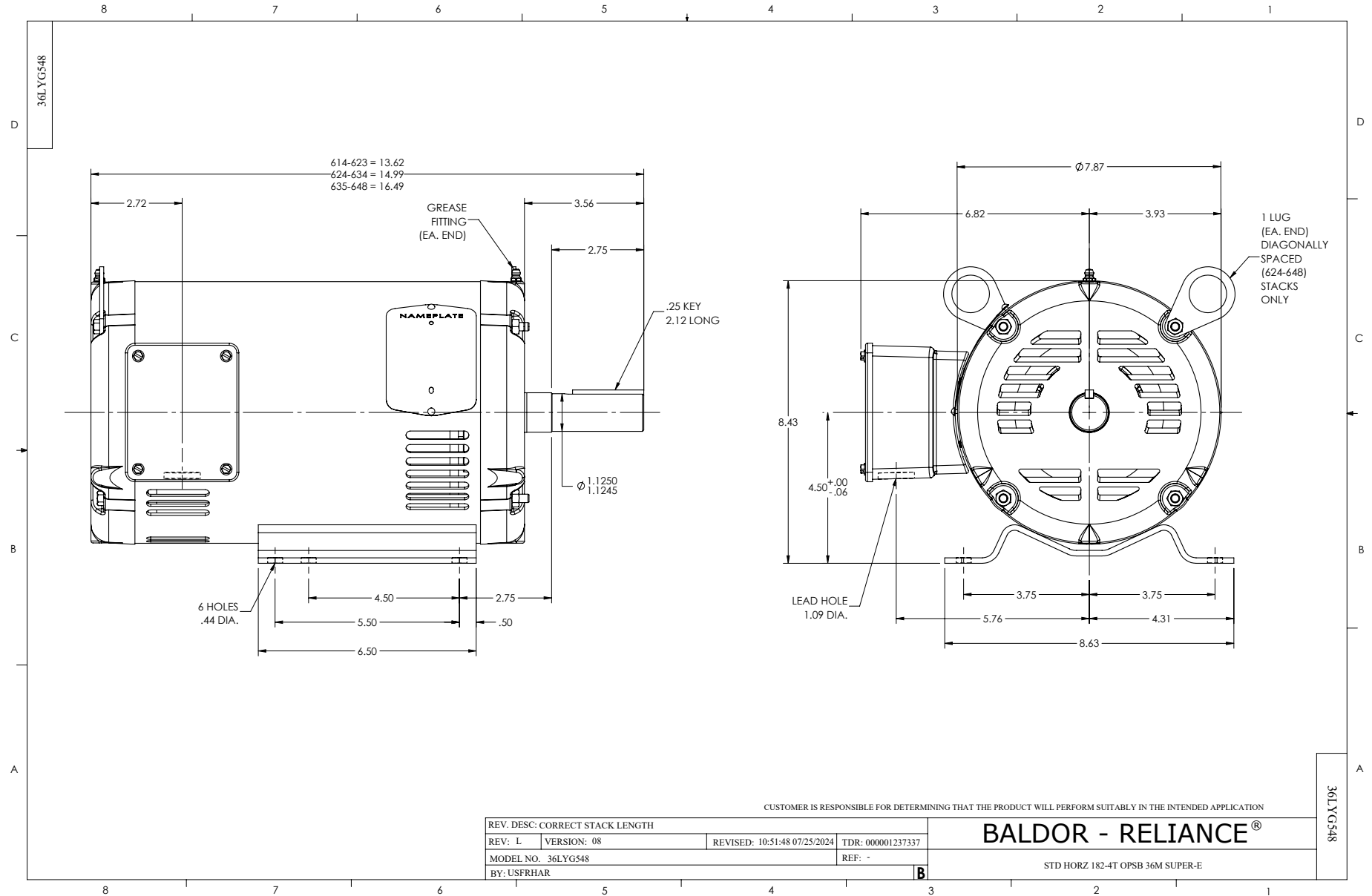
WINDING # 36WGS594

Typical performance - not guaranteed values.

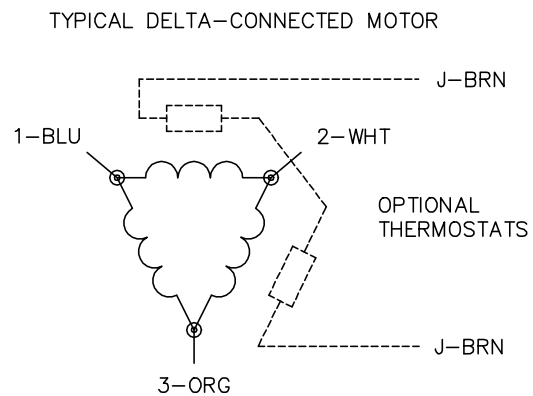
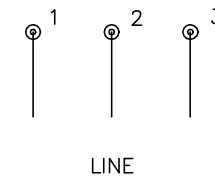
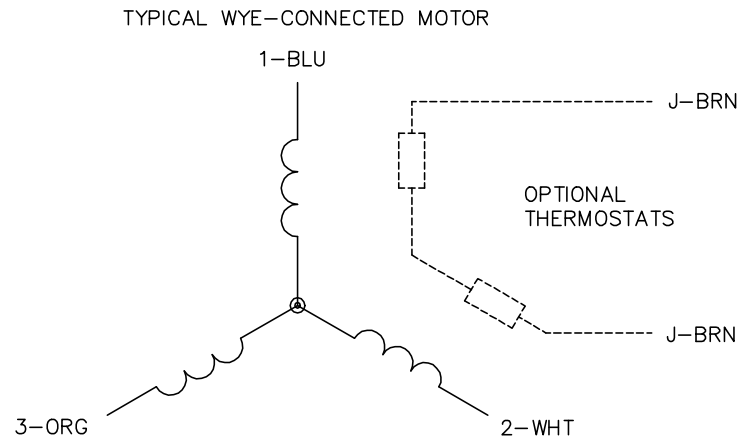
5 HP 3 PH 60 HZ 1750 RPM 575 V 3640M

TORQUES (LB-FT) : PO=44.3 PU=25.2 LR=29.8 LRA=35.7





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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