ABB BALDOR RELIANCE

Customer information packet

EM3212T

5HP, 3455RPM, 3PH, 60HZ, 182T, 3620M, OPSB, F1
Class - None
Division - Not Applicable

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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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	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	12.200 A @ 230.0 V
	13.500 A @ 208.0 V
	6.080 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a

Part Detail

Revision	B
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGZ652
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-06-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3620M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3455 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

NP3553LUA									
CAT.NO.	EM3212T								
SPEC.	36G548Z652								
HP	5								
VOLTS	230/460								
AMPS	12.2/6.08								
RPM	3455								
FRAME	182T	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	86.5	**PF**	91						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SN**							
DE	6206	**ODE**	6205						
VPWM INVERTER READY	SFA 14/7								
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 5HP 190/380V 15.2/7.6A								SF1.0

Accessories

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

AC Induction Motor Performance Data
Record # 115762
Typical performance - not guaranteed values

Winding: 36WGZ652-R001	**Type:** 3620M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	7.649 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			12.2/6.08	**Breakdown Torque**	26.8 LB-FT
R.P.M.			3455	**Pull-up Torque**	17.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	18.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	42.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2.16 A
NEMA Nom. Eff.	86.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	3.971 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			14/7	**Temp. Rise @ S.F. Load**	55°C
				Locked-rotor Power Factor	54.7

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	77	86	90	92	92	91
Efficiency	84.9	89	88.8	87.2	85	82.1	85.9
Speed	3568.5	3534.9	3496.5	3454.7	3406.5	3355.9	3426
Line amperes	2.55	3.45	4.64	6.01	7.57	9.29	6.95

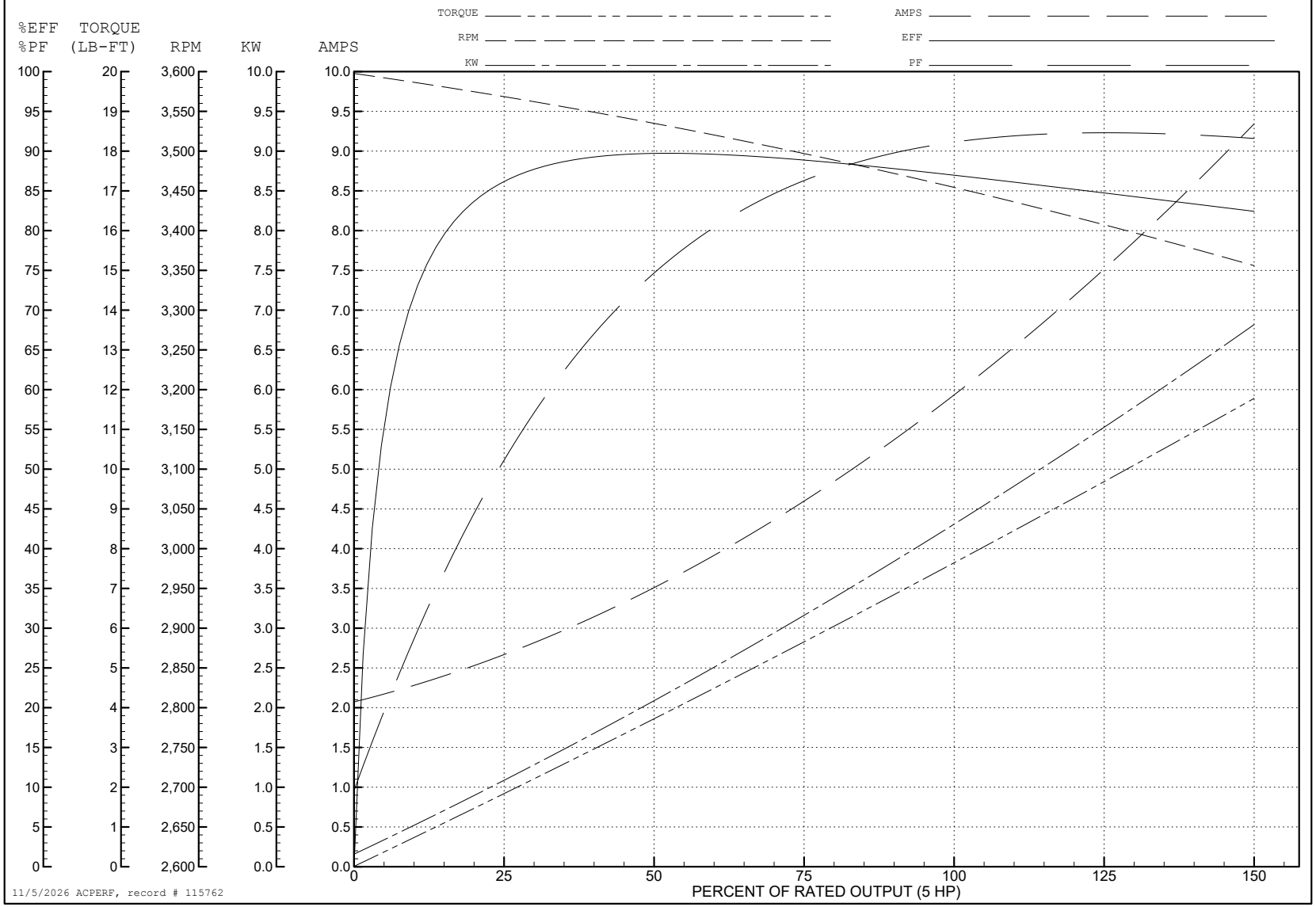
ABB Motors and Mechanical Inc.

WINDING # 36WGZ652

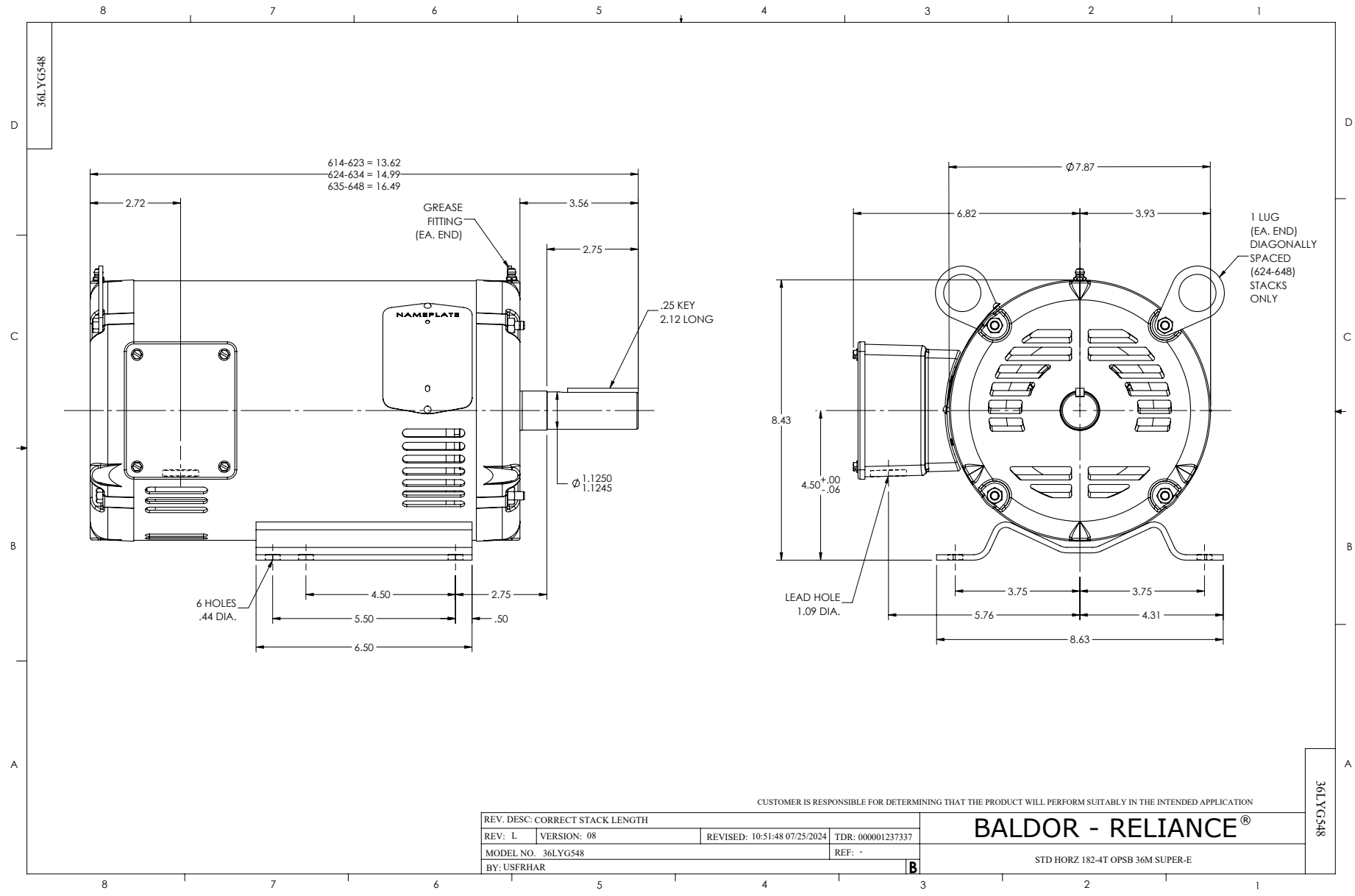
5 HP 3 PH 60 HZ 3455 RPM 460 V 3620M

Typical performance - not guaranteed values.

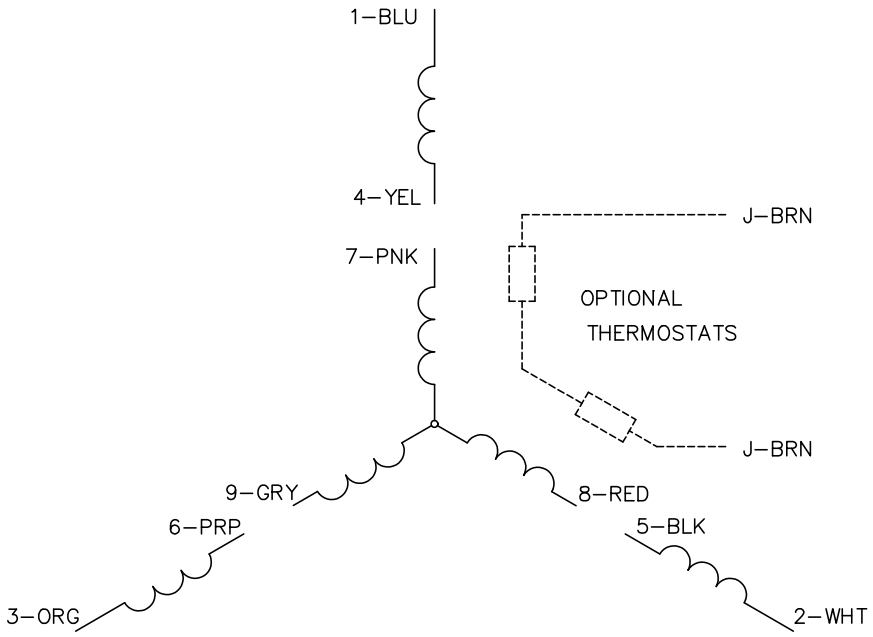
TORQUES(LB-FT): PO=26.8 PU=17.6 LR=18.8 LRA=42.5

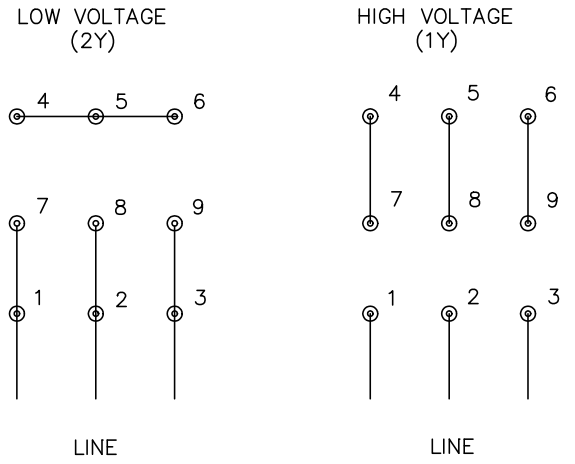


11/5/2026 ACPERF, record # 115762


36LYG548
614-623 = 13.62
624-634 = 14.99
635-648 = 16.49
2.72
GREASE FITTING (EA. END)
3.56
2.75
.25 KEY
2.12 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.44 DIA.
4.50
2.75
5.50
.50
6.50
Ø7.87
6.82
3.93
1 LUG (EA. END) DIAGONALLY SPACED (624-648) STACKS ONLY
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT STACK LENGTH
REV: L
VERSION: 08
REVISED: 10:51:48 07/25/2024
TDR: 000001237337
MODEL NO. 36LYG548
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
STD HORZ 182-4T OPSB 36M SUPER-E
36LYG548

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