ABB BALDOR RELIANCE

Customer information packet

EM3218T-8

5HP, 1750RPM, 3PH, 60HZ, 184T, 3640M, OPSB, F1
Class - None
Division - Not Applicable

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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	200.0 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	15.200 A @ 200.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	15.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J

Part Detail

Revision	C
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGQ035
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	12-10-2020

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 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 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-8										
SPEC	36G548Q035G1										
HP	5										
VOLTS	200										
AMPS	15.2										
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 17.2									
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 # 85776
Preliminary Data Sheet

Winding: 36WGQ035-R001	**Type:** 3640M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			15.2	**Breakdown Torque**	48.3 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	31.4 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	104 A
Service Factor (S.F.)			1.15	**No-load Current**	7.16 A
NEMA Nom. Eff.	89.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.518 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			17.1	**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	48.8
				Rotor inertia	0.372 lb-ft²

Load Characteristics 200 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	74	79	83	84	82
Efficiency	85.5	89.9	90.3	89.7	88.3	86.6	89
Speed	1789	1778	1766	1753	1738	1722	1745
Line amperes	7.96	9.76	12.3	15.2	18.6	22.3	17.2

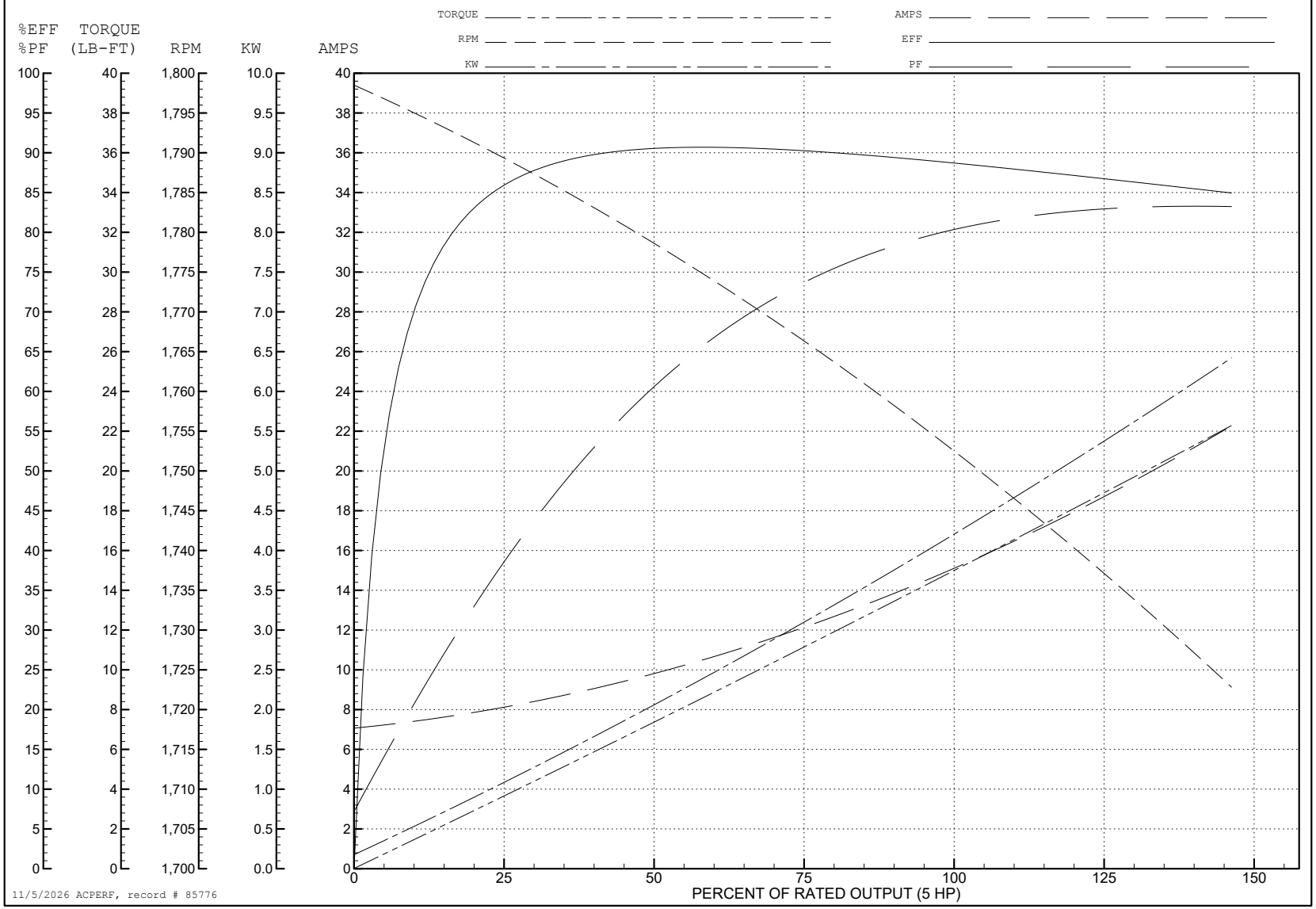
ABB Motors and Mechanical Inc.

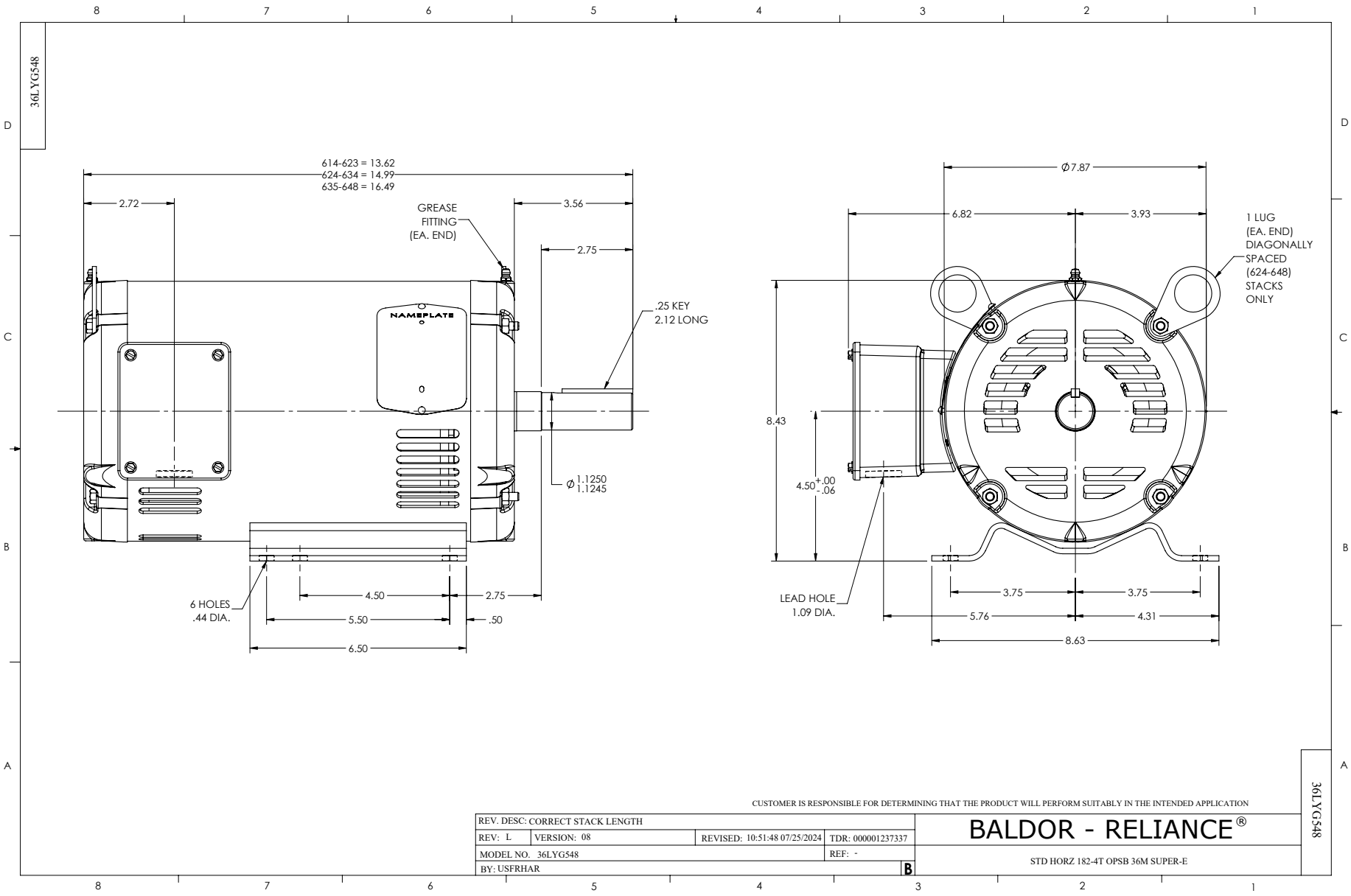
WINDING # 36WGQ035

5 HP 3 PH 60 HZ 1750 RPM 200 V 3640M

Typical performance - not guaranteed values.

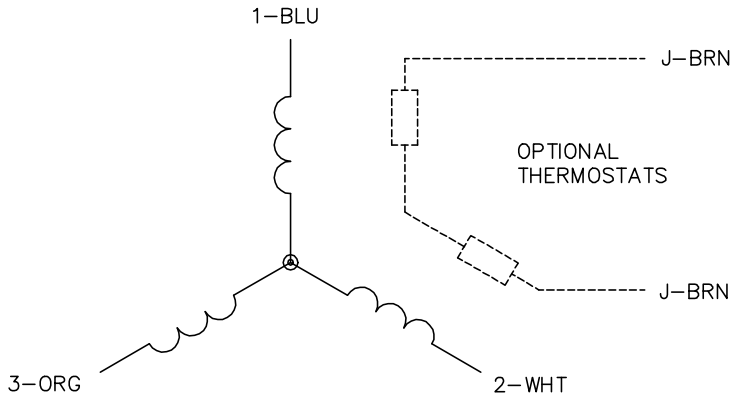
TORQUES(LB-FT): PO=48.3 PU=25.4 LR=31.4 LRA=104

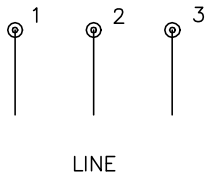



36LYG548
614-623 = 13.62
624-634 = 14.99
635-648 = 16.49
2.72
GREASE FITTING (EA. END)
3.56
2.75
.25 KEY
2.12 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.44 DIA.
4.50
2.75
5.50
.50
6.50
Ø7.87
6.82
3.93
1 LUG (EA. END) DIAGONALLY SPACED (624-648) STACKS ONLY
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75
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

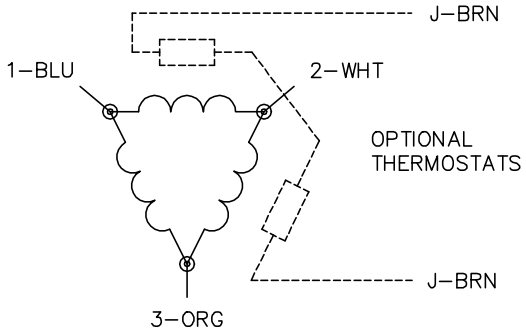
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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