ABB BALDOR RELIANCE

Customer information packet

36G548X542

7.5HP, 3500RPM, 3PH, 60HZ, 184T, 3646M, OPSB, F
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 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	19.300 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	19.3 a
Insulation Class	B

Part Detail

Revision	AK
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGX542
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	01-01-0001

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.50 IN
Power Factor	93
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	3500 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

NP1259L									
CAT.NO.									
SPEC.	36G548X542								
HP	7.5								
VOLTS	200								
AMP	19.3								
RPM	3500								
FRAME	184T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	B		
NEMA-NOM-EFF	90.2	**PF**	93						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		**ODE**	6205					
ENCL	OPSB	**SN**							

AC Induction Motor Performance Data
Record # 11033
Typical performance - not guaranteed values

Winding: 36WGX542-R001	**Type:** 3646M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			19.3	**Breakdown Torque**	51.2 LB-FT
R.P.M.			3500	**Pull-up Torque**	36.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	44.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	185.7 A
Service Factor (S.F.)			1.15	**No-load Current**	4.6 A
NEMA Nom. Eff.	90.2	**Power Factor**	93	**Line-line Res. @ 25ºC**	0.286 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	53°C
				Locked-rotor Power Factor	44
				Rotor inertia	0.205 LB-FT2

Load Characteristics 200 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	68	85	90	92	93	94	93
Efficiency	87.9	91.3	91.6	90.9	89.9	88.6	90.3
Speed	3566	3535	3502	3468	3436	3402	3449
Line amperes	7.1	10.5	14.6	19.26	23.6	28.4	21.86

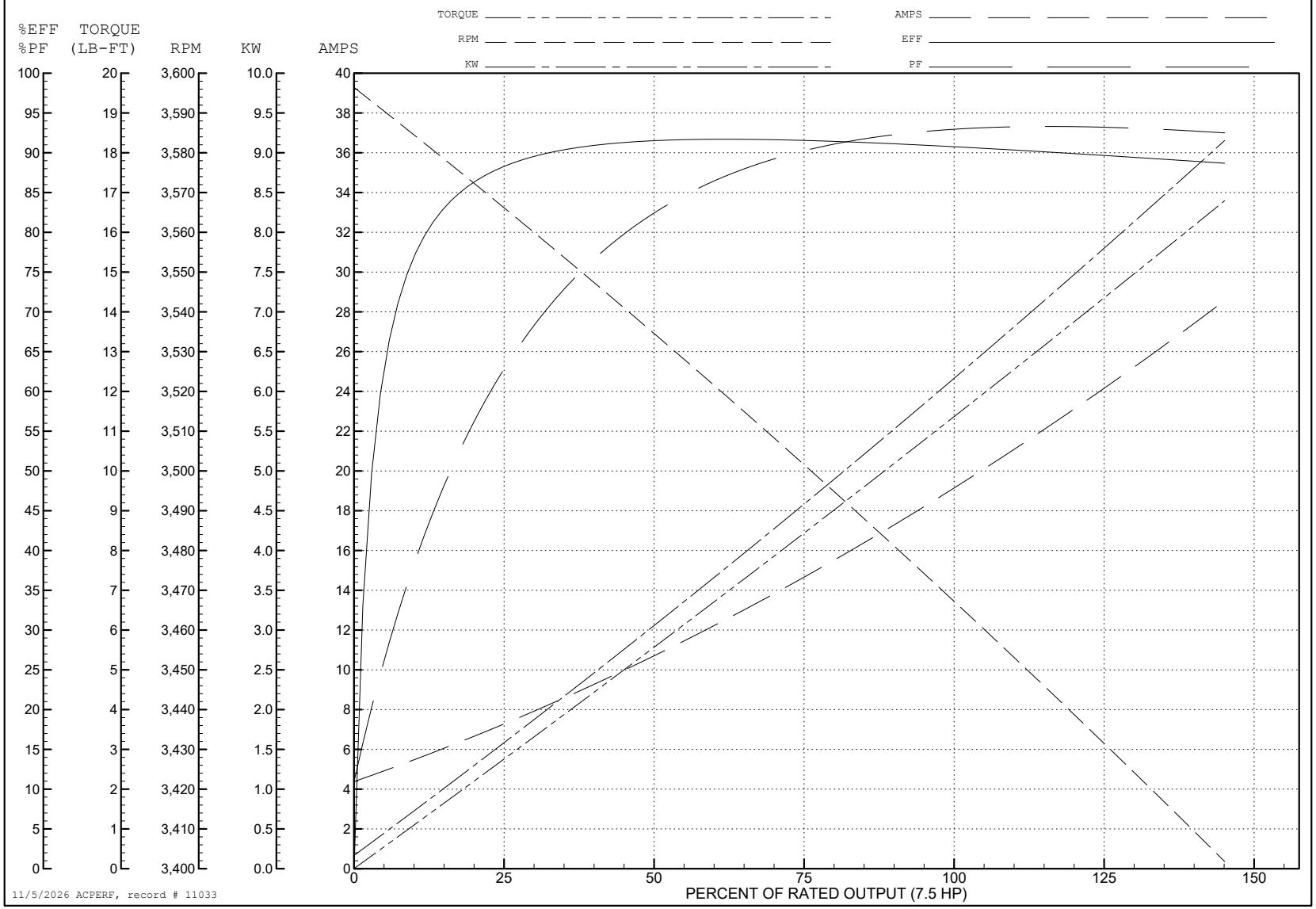
ABB Motors and Mechanical Inc.

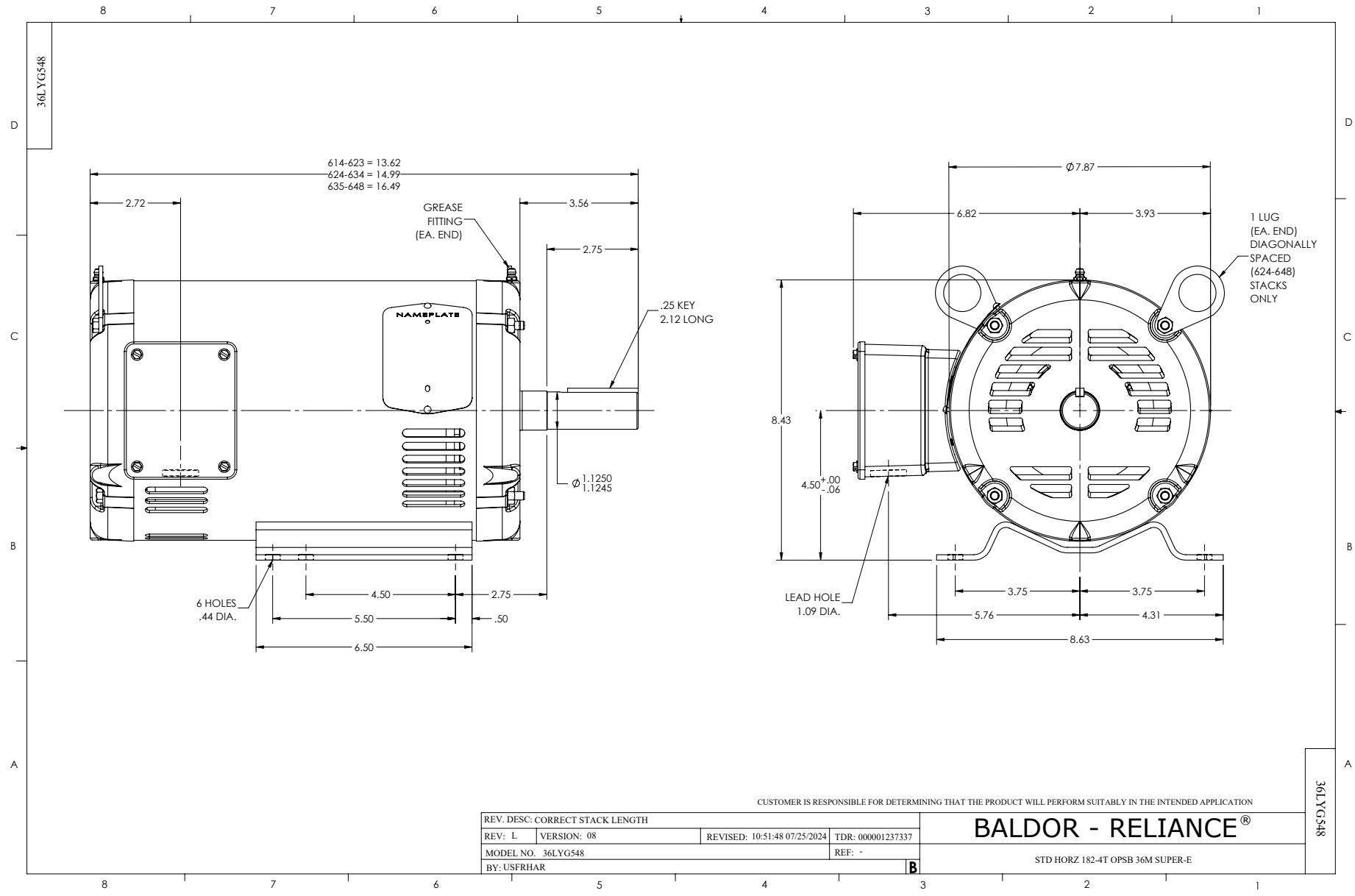
WINDING # 36WGX542

7.5 HP 3 PH 60 HZ 3500 RPM 200 V 3646M

TORQUES(LB-FT): PO=51.2 PU=36.9 LR=44.3 LRA=185.7

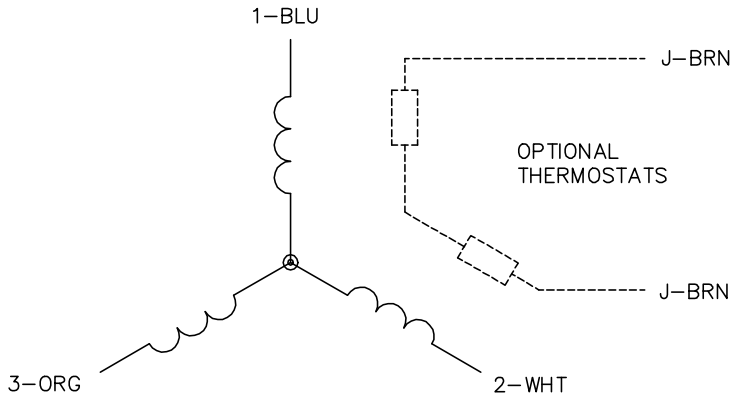
Typical performance - not guaranteed values.

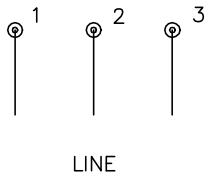



36LYG548
614-623 = 13.62
624-634 = 14.99
635-648 = 16.49
2.72
GREASE FITTING (EA. END)
3.56
2.75
.25 KEY
2.12 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
.44 DIA.
4.50
2.75
5.50
.50
6.50
Ø7.87
6.82
3.93
1 LUG (EA. END) DIAGONALLY SPACED (624-648) STACKS ONLY
8.43
4.50 +.00 -.06
LEAD HOLE
1.09 DIA.
3.75
3.75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

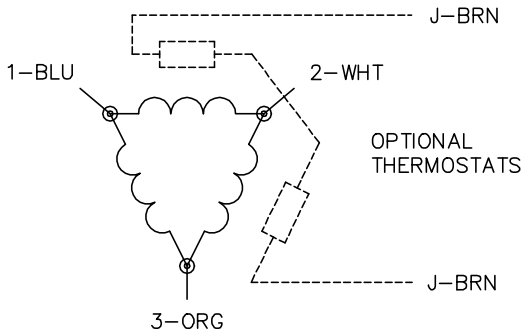
CD0006

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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