

ABB BALDOR RELIANCE III

Customer information packet

EM3218T-8

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	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. @ 25°C		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

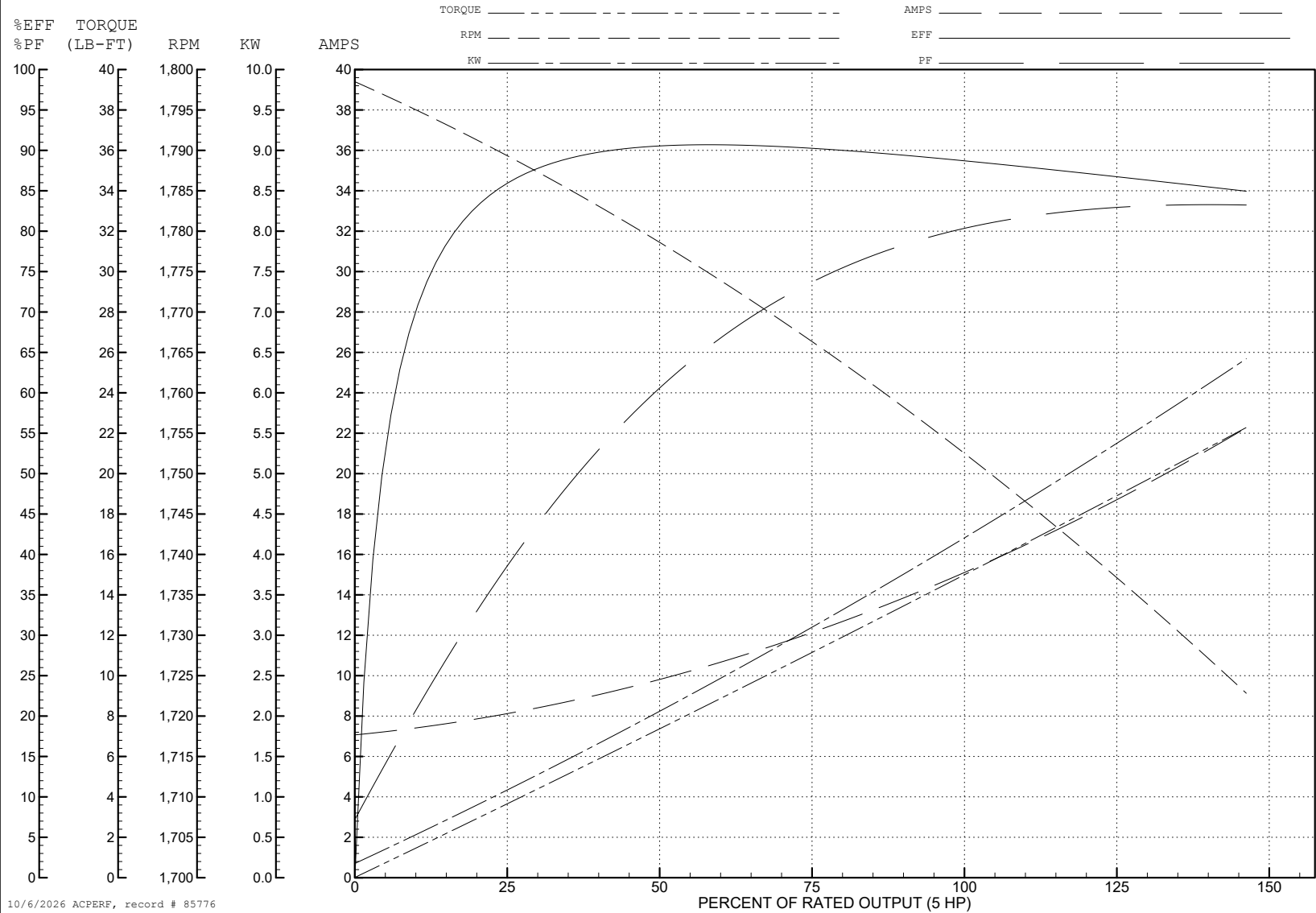
ABB Motors and Mechanical Inc.

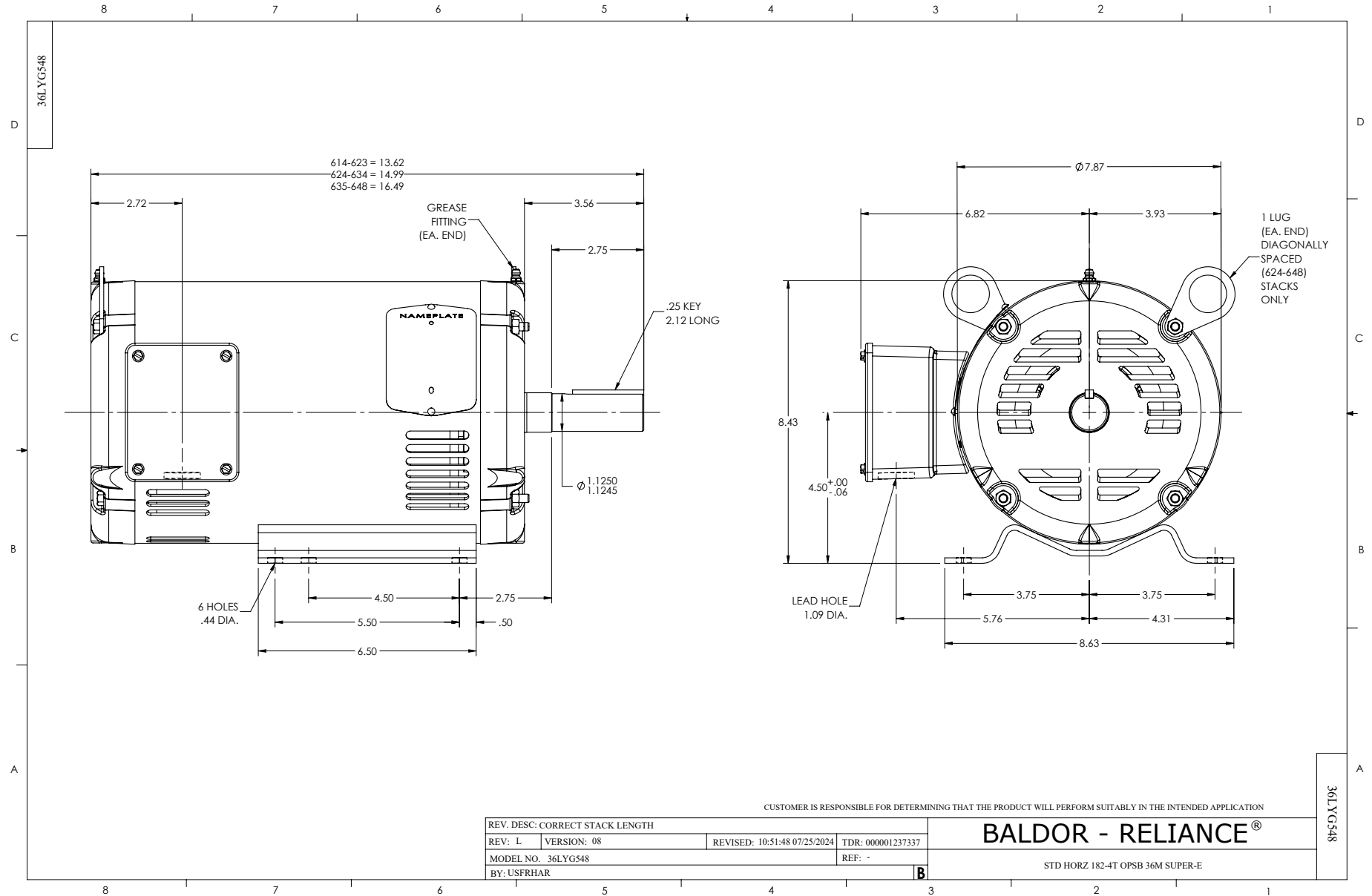
WINDING # 36WGQ035

Typical performance - not guaranteed values.

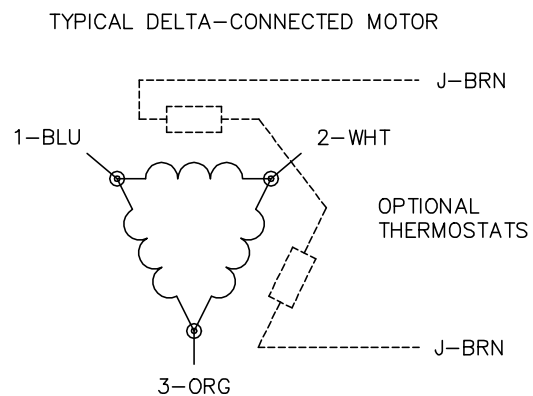
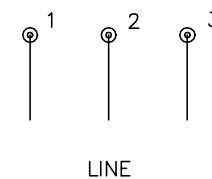
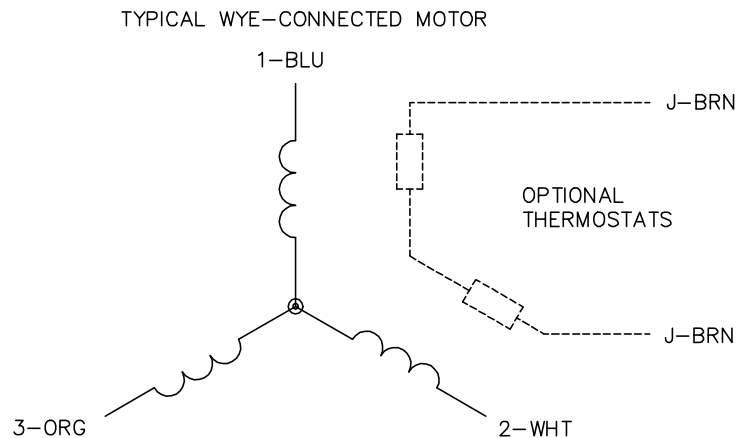
5 HP 3 PH 60 HZ 1750 RPM 200 V 3640M

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





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

SH 1 of 1