

BALDOR® • RELIANCE 

Product Information Packet

EM3212T

5HP,3465RPM,3PH,60HZ,182T,3622M,OPSB,F1

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGQ033	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	36G548	Layout:	36LYG548	Poles:	02	Created Date:	12-09-2020
Base:	RG	Eff. Date:	12-14-2020	Leads:	9#16		

Specs			
Catalog Number:	EM3212T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	182T	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	5.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3622M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	91
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	11.800 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	12.400 A @ 208.0 V	Shaft Rotation:	Reversible
	5.900 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3553LUA										
CAT.NO.	EM3212T									
SPEC.	36G548Q033G2									
HP	5									
VOLTS	230/460									
AMPS	11.8/5.9									
RPM	3465									
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			USABLE AT 208V						12.4
DE	6206			ODE	6205					
ENCL	OPSB		SN							
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										
USABLE AT	50HZ 5HP 190/380V 15.2/7.6A								SF1.0	

Parts List		
Part Number	Description	Quantity
SA388457	SA 36G548Q033G2	1.000 EA
RA378818	RA 36G548Q033G2	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E19	STD SQUARE KEY .25 SQUARE X 2.125 LONG	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 EA
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3553LUA	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

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

AC Induction Motor Performance Data

Record # 85737

Preliminary Data Sheet

Winding: 36WGQ033-RXXX		Type: 3622M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	5	Full Load Torque	7.57 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	11.8/5.9	Breakdown Torque	28.9 LB-FT		
R.P.M.	3465	Pull-up Torque	20.2 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	22.2 LB-FT	
NEMA Design Code	A KVA Code	J	Starting Current	46.1 A	
Service Factor (S.F.)	1.15	No-load Current	2 A		
NEMA Nom. Eff.	86.5 Power Factor	91	Line-line Res. @ 25°C	3.44 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C		
S.F. Amps	13.4/6.7	Temp. Rise @ S.F. Load	49°C		
		Locked-rotor Power Factor	65.2		
		Rotor inertia	0.0988 lb-ft ²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	87	90	92	93	92
Efficiency	85.7	89.5	89.4	88.1	86.3	83.9	87
Speed	3568	3538	3504	3467	3425	3379	3435
Line amperes	2.44	3.38	4.56	5.89	7.38	9.02	6.76

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values

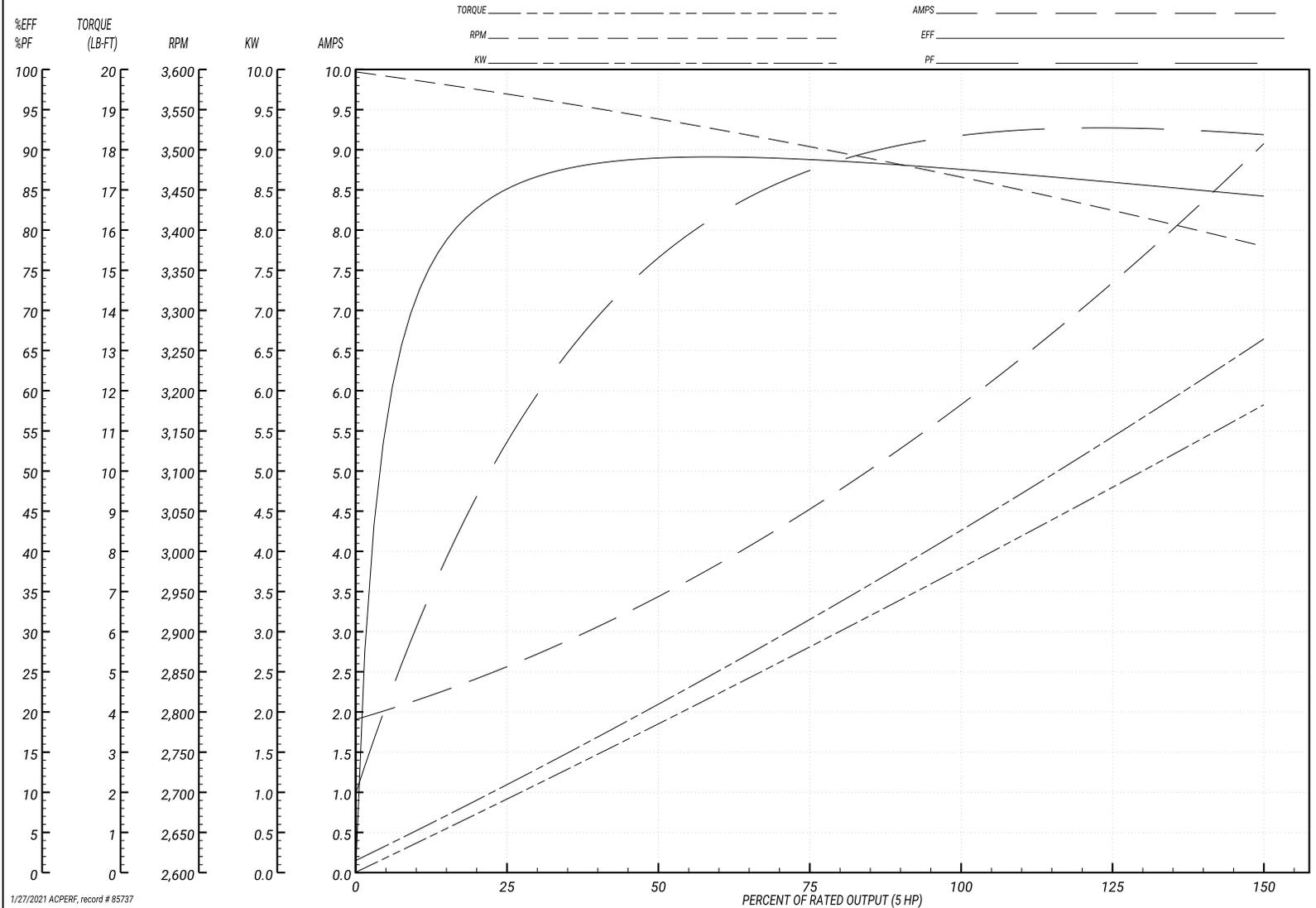
ABB Motors and Mechanical Inc.

WINDING # 36WGQ033

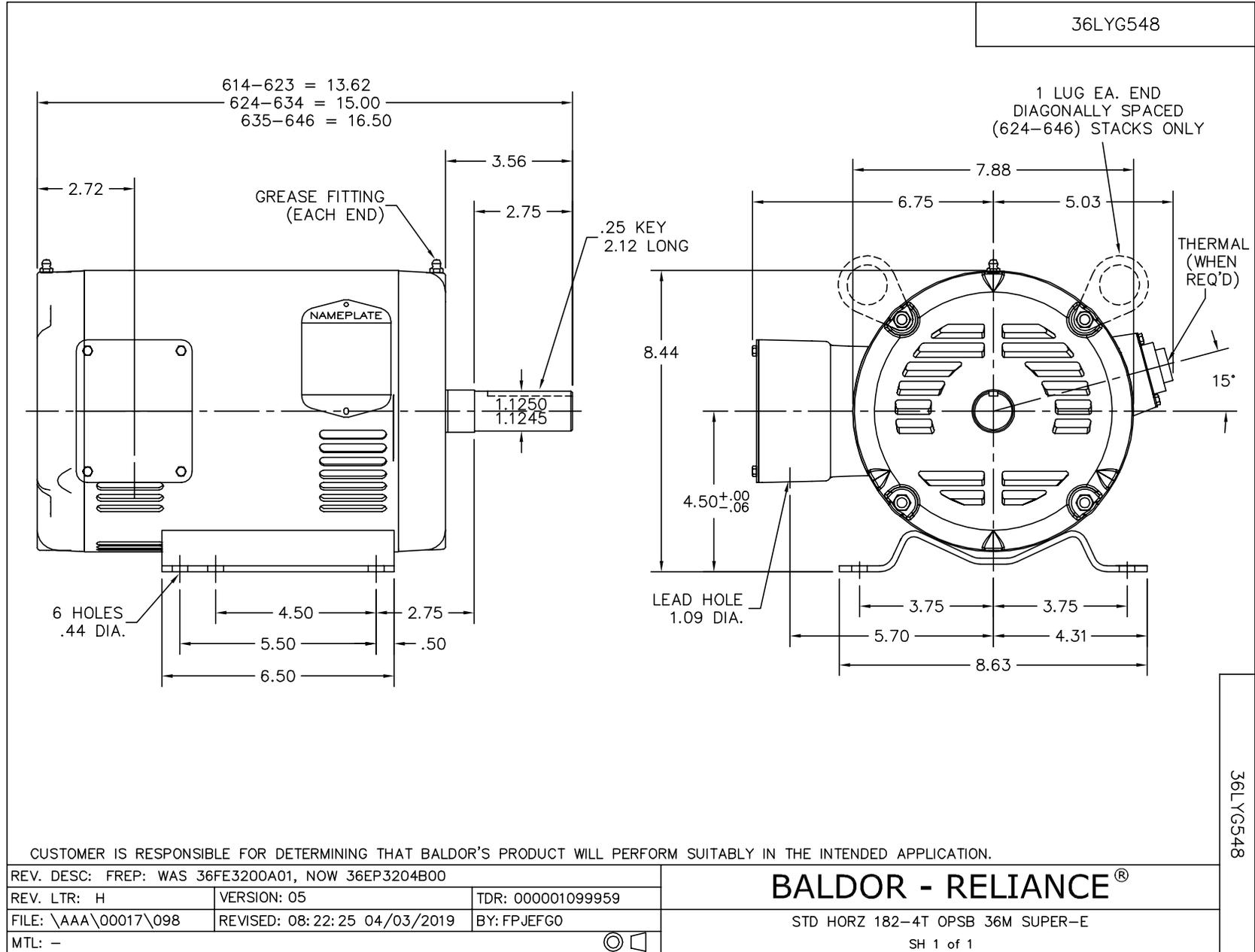
Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3465 RPM 460 V 3622M

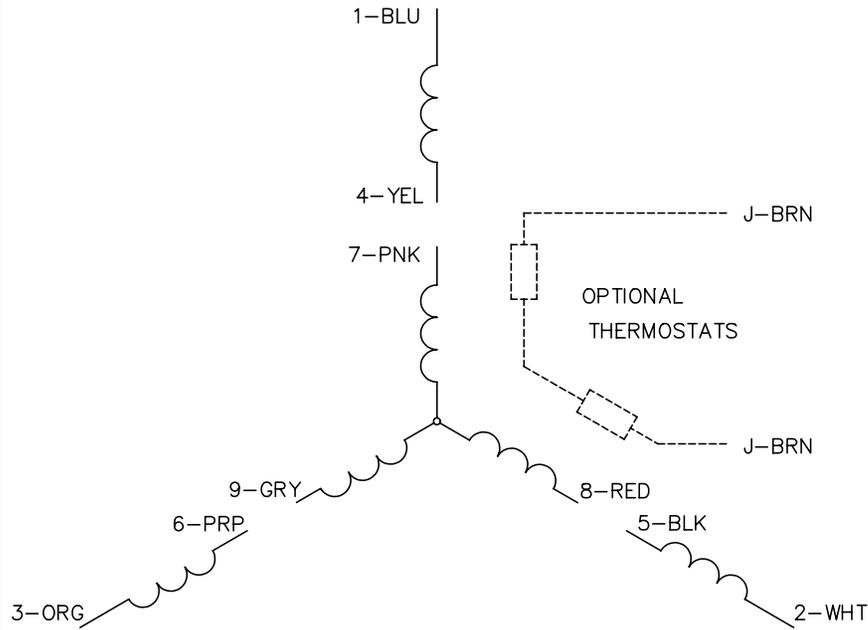
TORQUES(LB-FT): PO=28.9 PU=20.2 LR=22.2 LRA=46.1



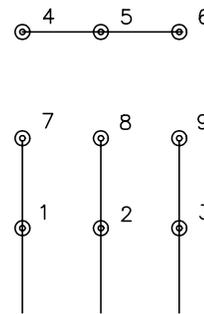
1/27/2021 ACPERF, record # 85737



CD0005

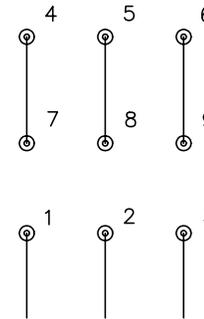


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005