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Product Information Packet

EM3212T-8

5HP,3450RPM,3PH,60HZ,182T,3622M,OPSB,F1

Part Detail							
Revision:	N	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGS553	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	36B101	Layout:	36LYB101	Poles:	02	Created Date:	08-01-2015
Base:	RG	Eff. Date:	04-08-2019	Leads:	3#14		

Specs			
Catalog Number:	EM3212T-8	IP Rating:	NONE
Enclosure:	OPSB	KVA Code:	K
Frame:	182T	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	5.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 14 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 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:	CSA	Power Factor:	91
	CSA EEV	Product Family:	General Purpose
	UR	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:	13.800 A @ 200.0 V	Shaft Ground Indicator:	No Shaft Grounding

Design Code:	A	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	No Slinger
Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	NO FEEDBACK	Starting Method:	Direct on line
Front Face Code:	Standard	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	None
Heater Indicator:	No Heater	Vibration Sensor Indicator:	No Vibration Sensor
Insulation Class:	F	Winding Thermal 1:	None
Inverter Code:	Inverter Ready	Winding Thermal 2:	None

Nameplate NP3553L										
CAT.NO.	EM3212T-8									
SPEC	36B101S553G1									
HP	5									
VOLTS	200									
AMPS	13.8									
RPM	3450									
FRAME	182T				HZ	60			PH	3
SF	1.15		CODE	K	DES	A		CLASS	F	
NEMA NOM. EFF	86.5		PF	91						
RATING	40C AMB-CONT									
CC	010A			USABLE AT 208V						
ENCL	OPSB		SER							
DE	6206			ODE	6205					
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										

Parts List		
Part Number	Description	Quantity
SA304962	SA 36B101S553G1	1.000 EA
RA292150	RA 36B101S553G1	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
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	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	36 LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	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
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 EA
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL CSA-	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 61408 - Typical performance - not guaranteed values

Winding: 36WGS553-R001	Type: 3622M	Enclosure: OPSB
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Nameplate Data				200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	5			Full Load Torque	7.66 LB-FT
Volts	200			Start Configuration	direct on line
Full Load Amps	13.8			Breakdown Torque	30.5 LB-FT
R.P.M.	3450			Pull-up Torque	18 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	22.4 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	116 A
Service Factor (S.F.)	1.15			No-load Current	4.28 A
NEMA Nom. Eff.	86.5	Power Factor	91	Line-line Res. @ 25°C	0.555 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	33°C
S.F. Amps				Temp. Rise @ S.F. Load	41°C
				Locked-rotor Power Factor	49.2
				Rotor inertia	0.103 LB-FT ²

Load Characteristics 200 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	81	88	91	92	93	92
Efficiency	81.3	86.7	87.8	86.9	85.6	83.7	86.1
Speed	3567	3536	3505	3468	3428	3385	3444
Line amperes	5.48	7.79	10.6	13.7	17.2	20.8	15.8

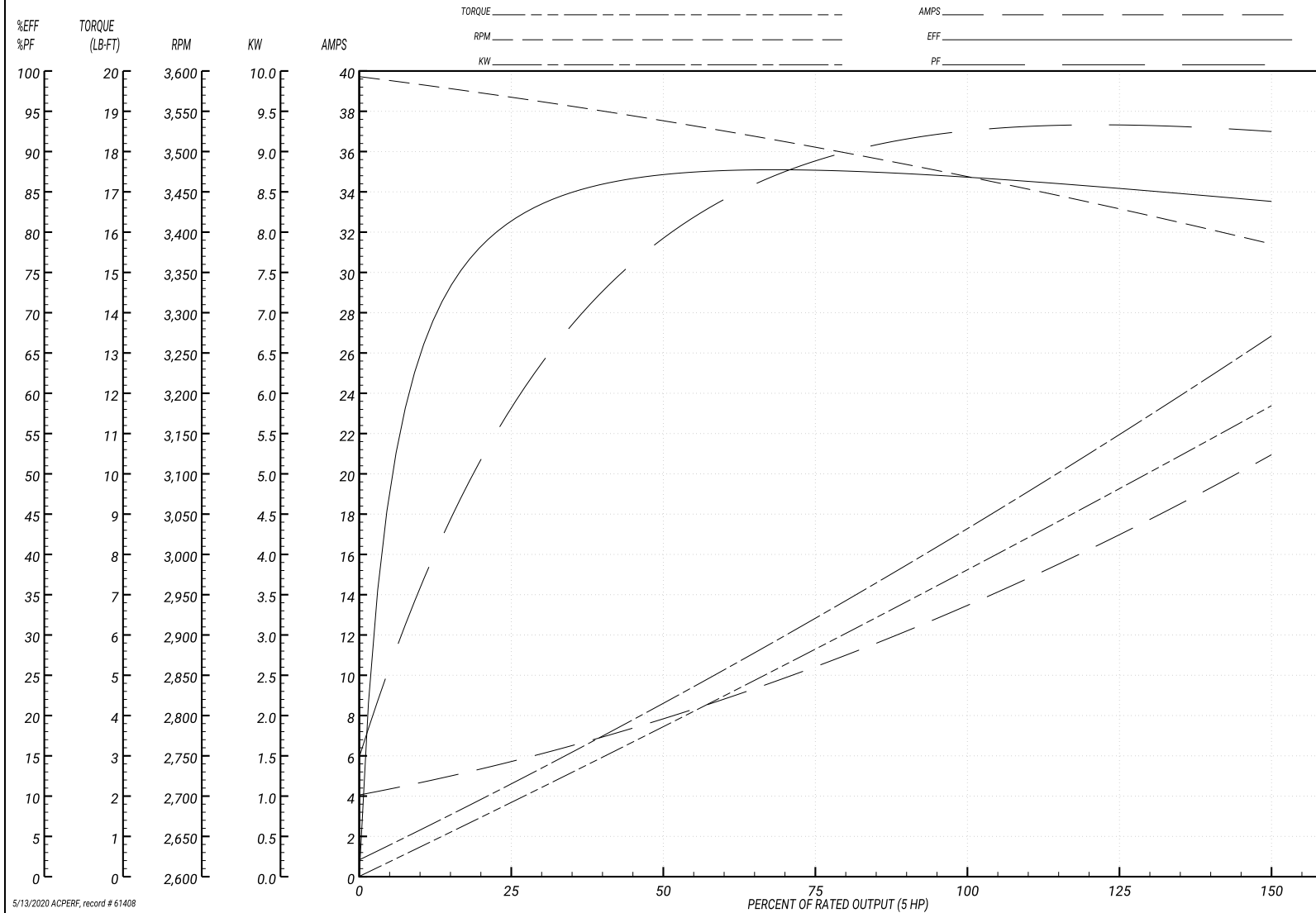
Performance Graph at 200V, 60Hz, 5.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

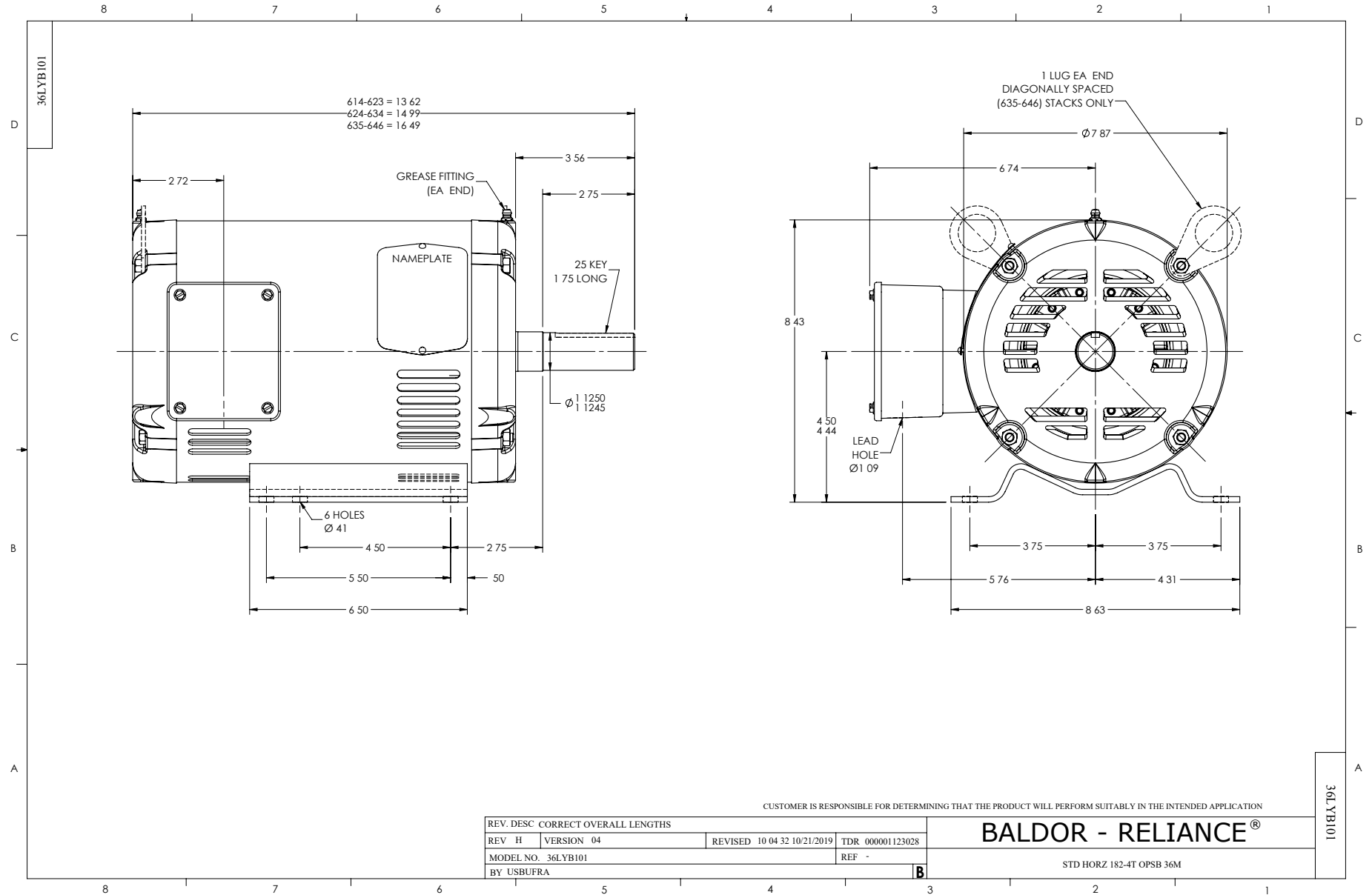
WINDING # 36WGS553

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 200 V 3622M
 TORQUES(LB-FT): PO=30.5 PU=18 LR=22.4 LRA=116



5/13/2020 ACPERF, record # 61408



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: -	© □	

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

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