

ABB BALDOR RELIANCE III

Customer information packet

EJMM3613T-5

5HP, 3450RPM, 3PH, 60HZ, 184JM, 3630M, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	184JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	4.700 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	4.7 a
Insulation Class	F

Part Detail

Revision	G
Type	AC
Mech. spec.	36H017
Base	
Status	PRD/A
Elec. spec.	36WGS505
Layout	36LYH017
Eff. date	07-29-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	08-17-2015

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.06 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP3441L											
CAT.NO.		EJMM3613T-5									
SPEC.		36H017S505G2									
HP		5									
VOLTS		575									
AMP		4.7									
RPM		3450									
FRAME		184JM		HZ		60		PH		3	
SER.F.		1.15	CODE		L	DES	A	CL	F		
NEMA-NOM-EFF		88.5	PF		91						
RATING		40C AMB-CONT									
CC		010A									
DE		6207		ODE		6205					
ENCL		TEFC	SN								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Parts List

Part number	Description	Quantity
SA306460	SA 36H017S505G2	1.000 ea
RA293705	RA 36H017S505G2	1.000 ea
34FN3002B02	EXTERNAL FAN, PLASTIC, .905/.907 HUB W/	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD 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
36EP3104A04	FR ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3405T03	PUEP ENCL 207 BRG T'SLV,GRSR,REL,DRAIN	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A103	IEC FH GREASER W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 BRG	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
LC0006	CONNECTION LABEL	1.000 ea

NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 31109

Typical performance - not guaranteed values

Winding: 36WGS505-R001			Type: 3630M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		5	Full Load Torque		7.64 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		4.7	Breakdown Torque		33.7 LB-FT	
R.P.M.		3450	Pull-up Torque		23.5 LB-FT	
Hz	60	Phase	Locked-rotor Torque		27.5 LB-FT	
NEMA Design Code	A	KVA Code	Starting Current		45.7 A	
Service Factor (S.F.)		1.15	No-load Current		1.34 A	
NEMA Nom. Eff.	88.5	Power Factor	Line-line Res. @ 25°C		3.57 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		72°C	
S.F. Amps			Temp. Rise @ S.F. Load		88°C	
			Locked-rotor Power Factor		45	
			Rotor inertia		0.134 LB-FT2	

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	81	88	91	93	93	92
Efficiency	83.2	88.4	89.1	88.5	87	85.7	87.5
Speed	3569	3537	3504	3466	3428	3385	3443
Line amperes	1.79	2.61	3.58	4.68	5.81	7.05	5.36

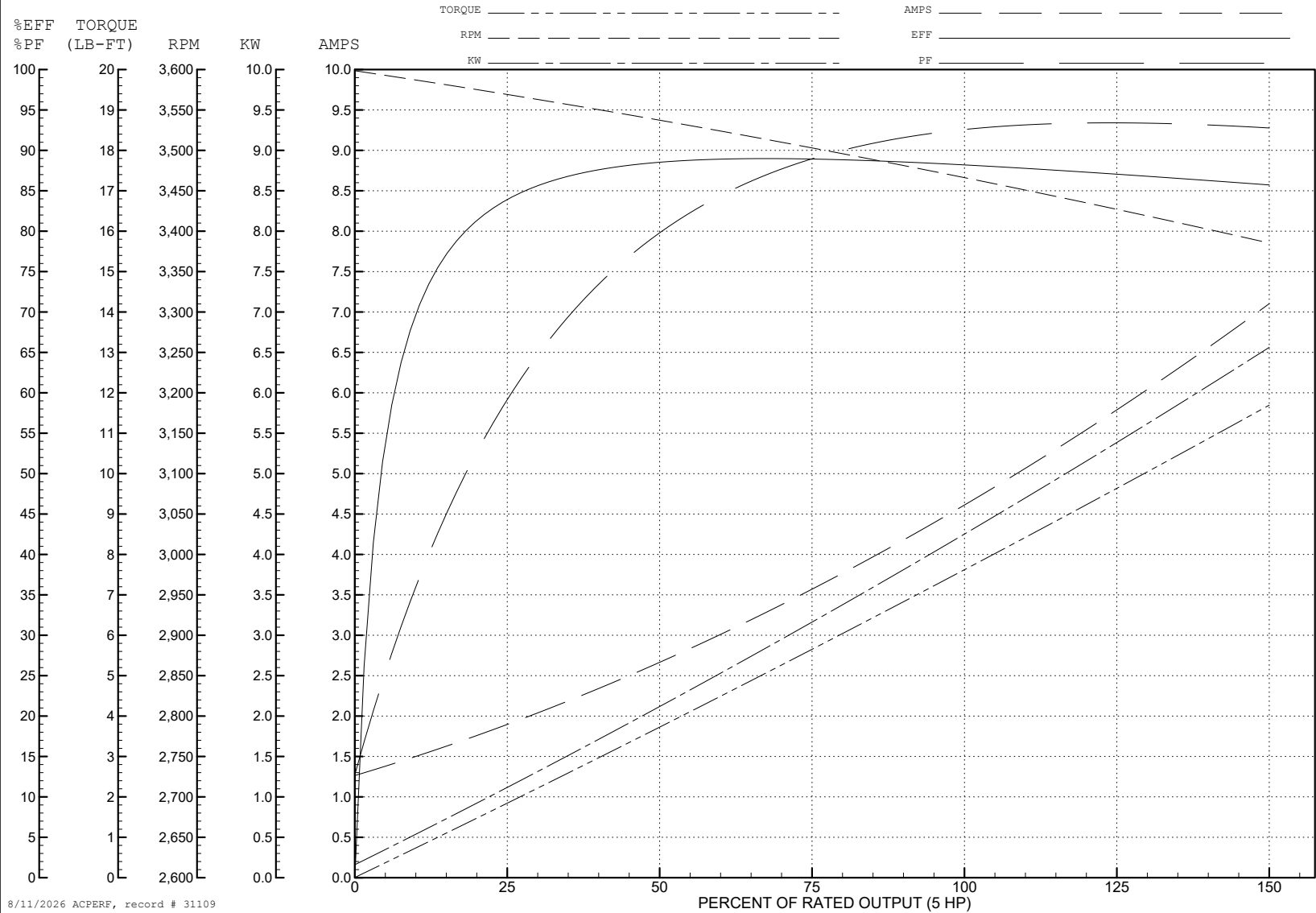
ABB Motors and Mechanical Inc.

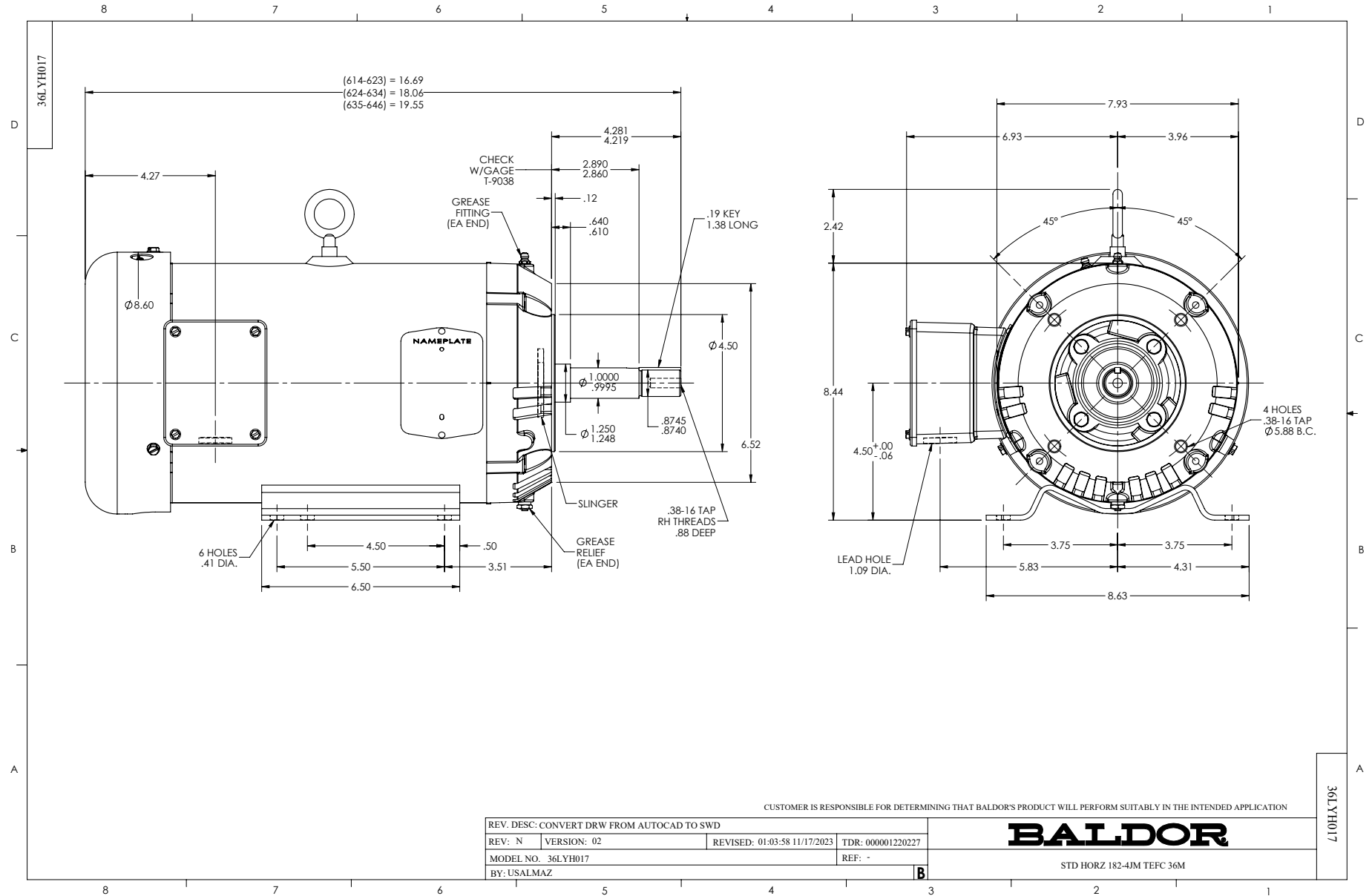
WINDING # 36WGS505

Typical performance - not guaranteed values.

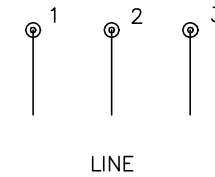
5 HP 3 PH 60 HZ 3450 RPM 575 V 3630M

TORQUES (LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=45.7





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

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