

ABB BALDOR RELIANCE III

Customer information packet

EJMM3616T-5

7.5HP, 3470RPM, 3PH, 60HZ, 184JM, 3646M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184JM
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	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	6.800 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	6.8 a
Insulation Class	F

Part Detail

Revision	G
Type	AC
Mech. spec.	36H017
Base	
Status	PRD/A
Elec. spec.	36WGS467
Layout	36LYH017
Eff. date	07-15-2025
CD Diagram	CD00006
Poles	02
Leads	3#16
Proprietary	False
Created date	08-17-2015

Inverter Code	Inverter Ready
KVA Code	M
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	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	19.56 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	3470 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.	EJMM3616T-5								
SPEC.	36H017S467G1								
HP	7.5								
VOLTS	575								
AMP	6.8								
RPM	3470								
FRAME	184JM		HZ	60			PH	3	
SER.F.	1.15	CODE	M	DES	A	CL	F		
NEMA-NOM-EFF	89.5	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									

AC Induction Motor Performance Data

Record # 39155

Typical performance - not guaranteed values

Winding: 36WGS467-R003			Type: 3646M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5	Full Load Torque		11.4 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		6.8	Breakdown Torque		63.9 LB-FT		
R.P.M.		3470	Pull-up Torque		44.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		53.5 LB-FT	
NEMA Design Code		A	KVA Code	M	Starting Current		79.9 A
Service Factor (S.F.)		1.15	No-load Current		2.1 A		
NEMA Nom. Eff.		89.5	Power Factor	91	Line-line Res. @ 25°C		1.97 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C
S.F. Amps			Temp. Rise @ S.F. Load		87°C		
			Locked-rotor Power Factor		44		
			Rotor inertia		0.205 LB-FT2		

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	82	89	92	94	94	93
Efficiency	86.2	90.4	91.1	90.5	89	87.1	89.6
Speed	3573	3543	3511	3477	3441	3401	3455
Line amperes	2.69	3.8	5.23	6.8	8.4	10.3	7.76

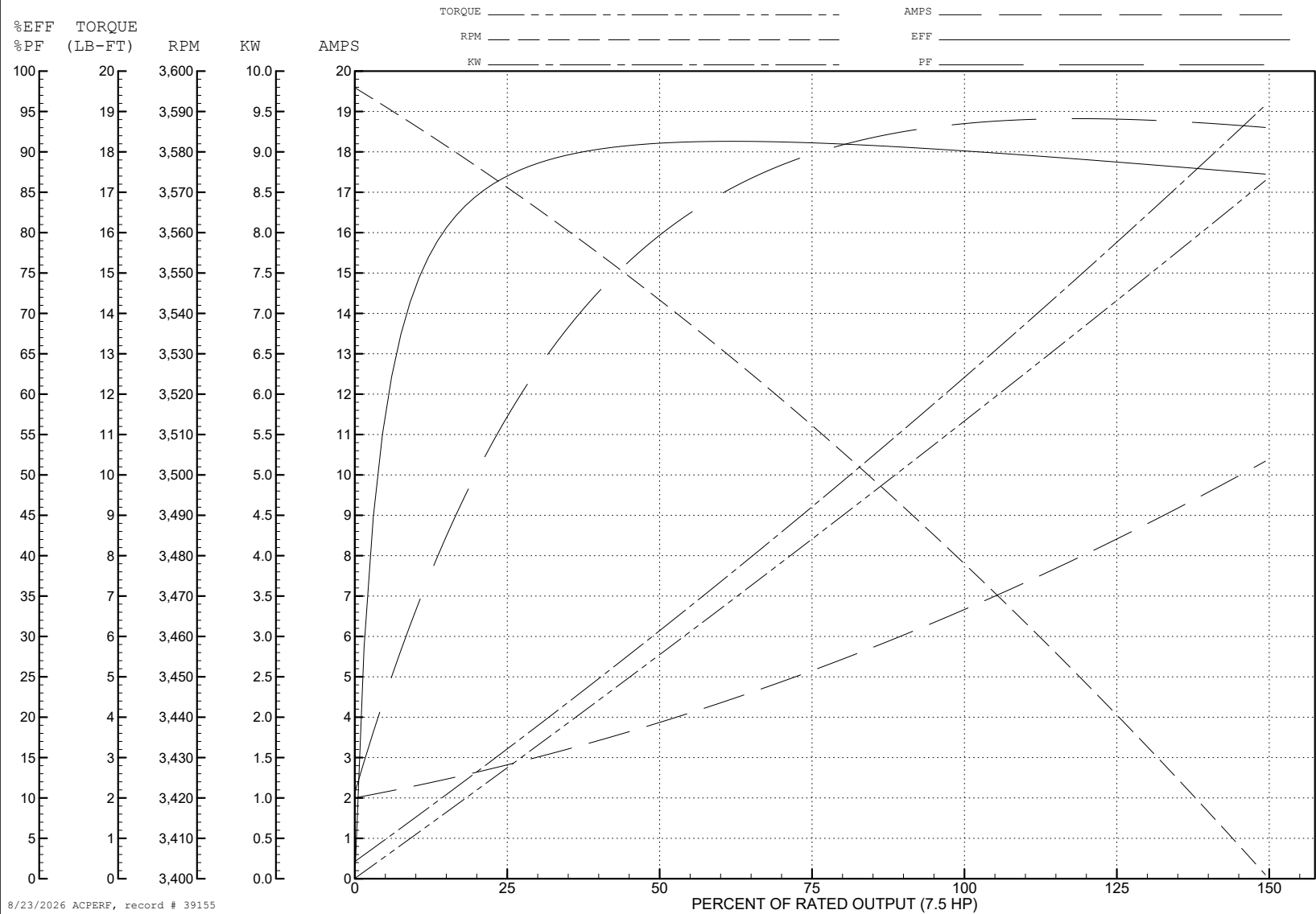
ABB Motors and Mechanical Inc.

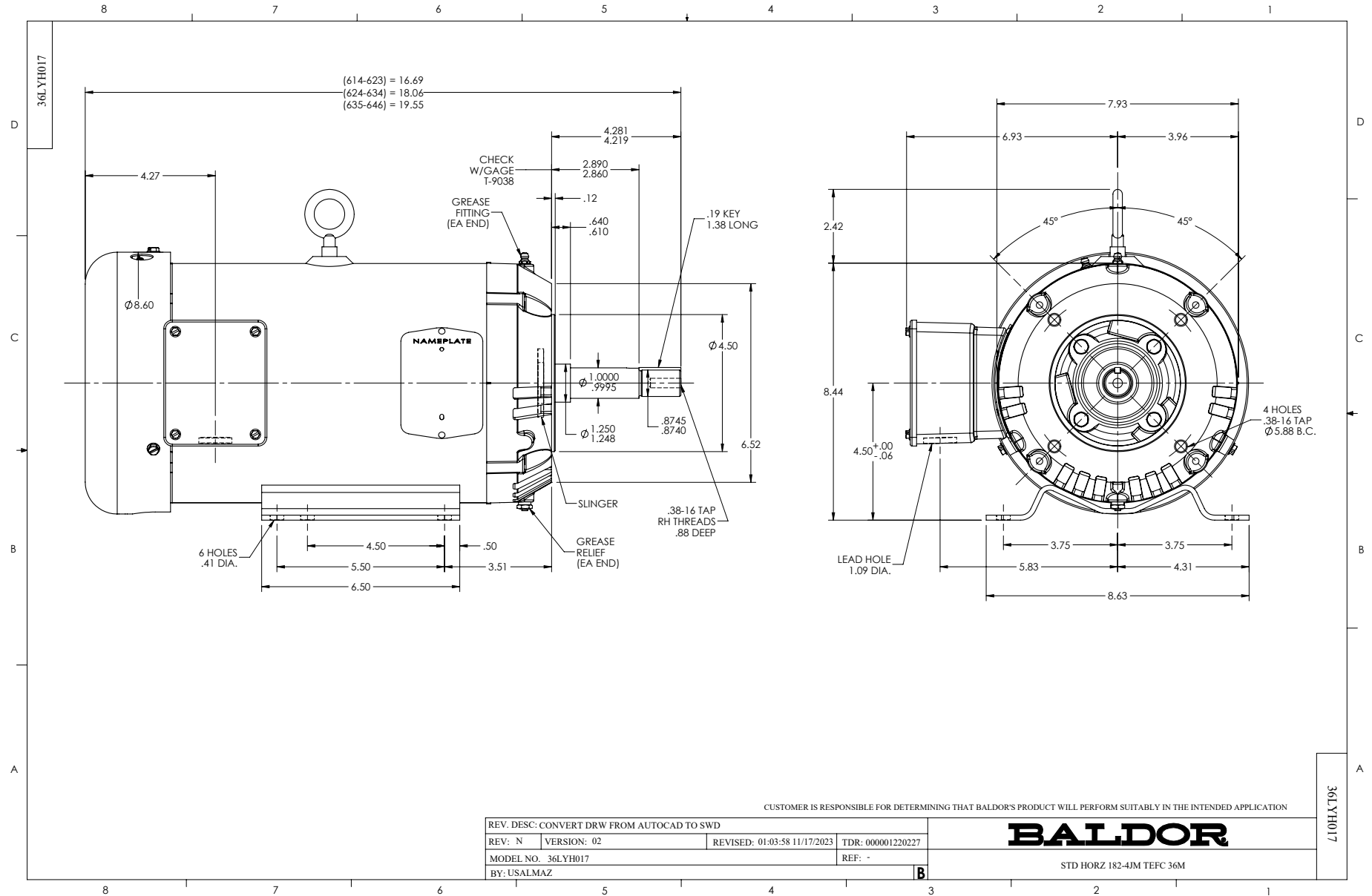
WINDING # 36WGS467

Typical performance - not guaranteed values.

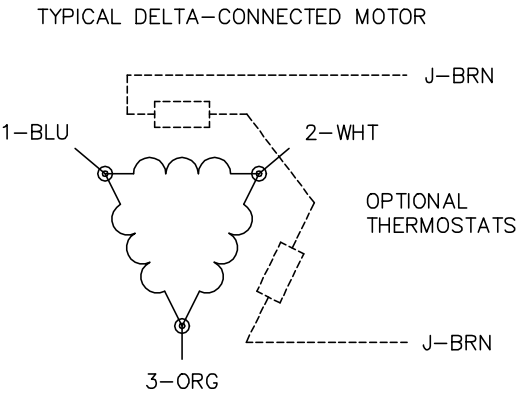
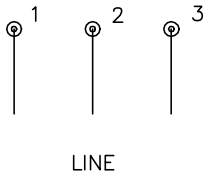
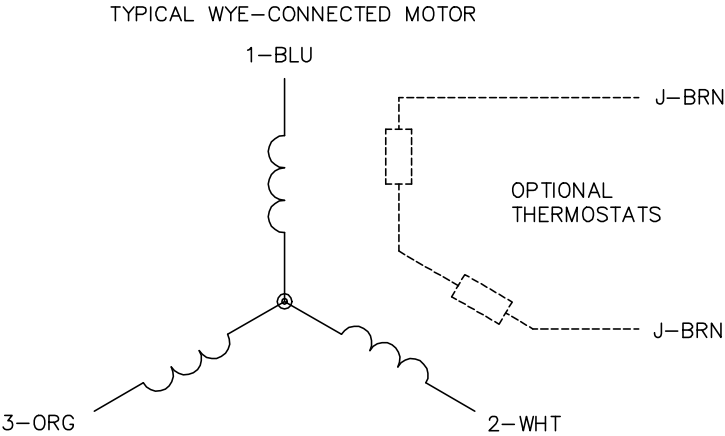
7.5 HP 3 PH 60 HZ 3470 RPM 575 V 3646M

TORQUES (LB-FT): PO=63.9 PU=44.3 LR=53.5 LRA=79.9





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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