



Customer information packet

EM3613T-57

5HP, 2880RPM, 3PH, 50HZ, 184T, 3642M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 HZ
Agency Approvals	C UR US CE CURUS IE3 UKCA WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.200 A @ 230.0 V 6.400 A @ 400.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	J
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGR595
Layout	36LYA001
Eff. date	05-08-2024
CD Diagram	CD0022
Poles	02
Leads	6#16
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.04 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2880 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

NP2716L									
CAT NO	EM3613T-57								
SPEC.	36A001R595G1								
HP	5/3.7KW				PH	3			
VOLTS	230/400								
AMP	11.2/6.4								
R.P.M. (1/MIN)	2880								
FRAME	184T		HZ	50		I.P.	44		
SER.F.	1.15	CODE	L	DES	A	CL	F		
NOM.EFF.	88.1		% (100%)						
PF	94								
RATING	40C AMB-S1 CONT				CC				
DE BRG	6206		ODE	6205					
ENCL	TEFC	SN							
BLANK	IE3-91.2(75%)91.3(50%)								
	42KG IC411								

AC Induction Motor Performance Data

Record # 44461

Typical performance - not guaranteed values

Winding: 36WGR595-R001		Type: 3642M		Enclosure: TEFC	
Nameplate Data			400 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	5		Full Load Torque	9.04 LB-FT	
Volts	230/400		Start Configuration	direct on line	
Full Load Amps	11.2/6.4		Breakdown Torque	44.9 LB-FT	
R.P.M.	2880		Pull-up Torque	36.1 LB-FT	
Hz	50 Phase	3	Locked-rotor Torque	40 LB-FT	
NEMA Design Code	A KVA Code	L	Starting Current	68.1 A	
Service Factor (S.F.)	1.15		No-load Current	1.73 A	
NEMA Nom. Eff.	88.1 Power Factor	94	Line-line Res. @ 25°C	1.77 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	63°C	
S.F. Amps			Temp. Rise @ S.F. Load	77°C	
			Locked-rotor Power Factor	49	
			Rotor inertia	0.188 LB-FT ²	

Load Characteristics 400 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	85	90	94	94	94	94
Efficiency	88.4	91.3	91.2	90.2	88.6	87	88.7
Speed	2969	2942	2913	2883	2851	2815	3434
Line amperes	2.42	3.5	4.9	6.32	7.97	9.64	7.3

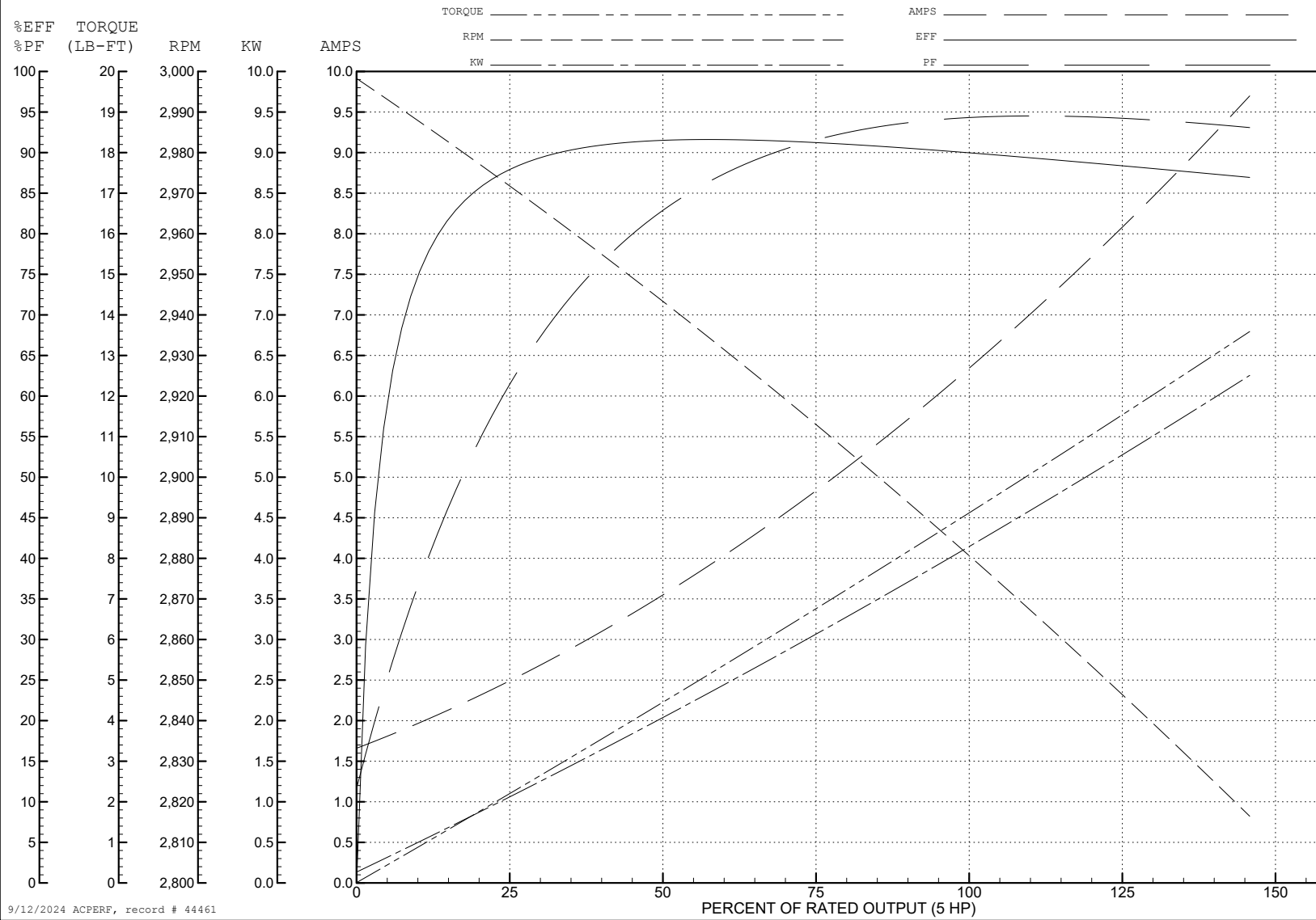
ABB Motors and Mechanical Inc.

WINDING # 36WGR595

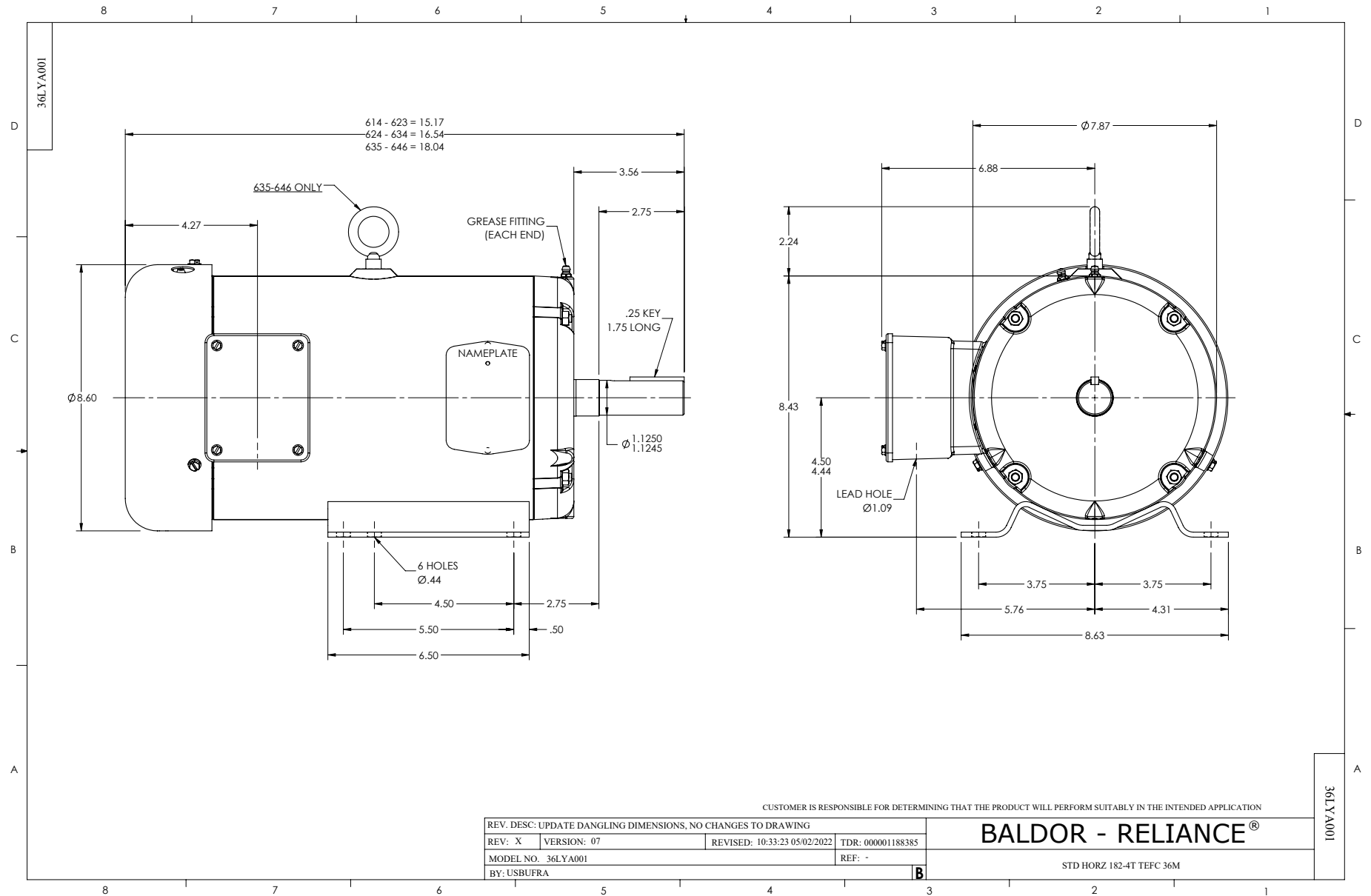
5 HP 3 PH 50 HZ 2880 RPM 400 V 3642M

Typical performance - not guaranteed values.

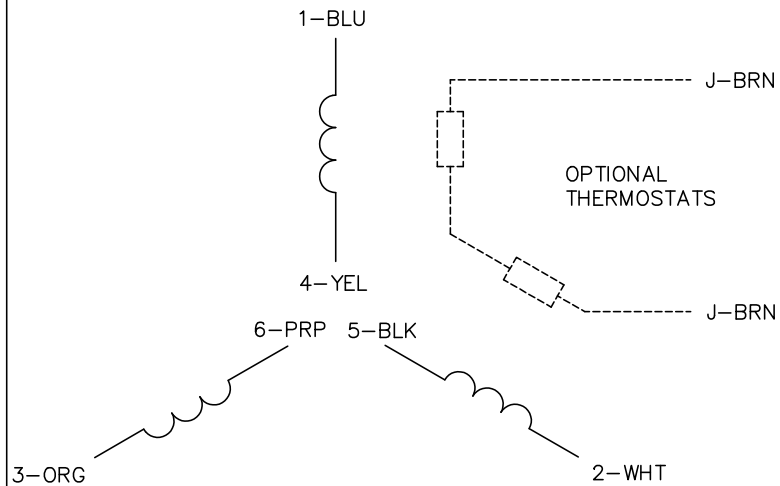
TORQUES (LB-FT): PO=44.9 PU=36.1 LR=40 LRA=68.1



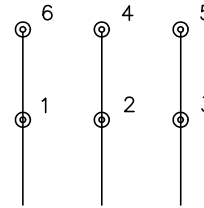
9/12/2024 ACPERF, record # 44461



CD0022

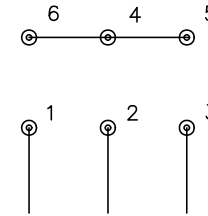


LOW VOLTAGE
(1D)



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: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022