



Customer information packet

CEM3615T

5HP, 1755RPM, 3PH, 60HZ, 184TC, 3642M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	6.700 A @ 460.0 V
	14.000 A @ 208.0 V
	13.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	B
Type	AC
Mech. spec.	36A002
Base	
Status	PRD/A
Elec. spec.	36WGQ032
Layout	36LYA002
Eff. date	03-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	12-03-2020

Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.05 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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

NP3441LUA

CAT.NO.	CEM3615T						
SPEC	36A002Q032G1						
HP	5						
VOLTS	230/460						
AMPS	13.4/6.7						
RPM	1755						
FRAME	184TC	HZ	60	PH	3		
SF	1.15	CODE	J	DES	B	CLASS	F
NEMA NOM. EFF	89.5	PF	78				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6206	ODE	6205				
VPWM INVERTER READY							
CT6-60H(10:1)VT3-60H(20:1	50HZ 5HP 190/380V 15.6/7.8A						SF1.0

AC Induction Motor Performance Data

Record # 89917

Typical performance - not guaranteed values

Winding: 36WGQ032-R001		Type: 3642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	5		Full Load Torque	15 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	13.4/6.7		Breakdown Torque	53.1 LB-FT	
R.P.M.	1755		Pull-up Torque	23.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	34.7 LB-FT	
NEMA Design Code	B KVA Code	J	Starting Current	49.8 A	
Service Factor (S.F.)	1.15		No-load Current	3.31 A	
NEMA Nom. Eff.	89.5 Power Factor	78	Line-line Res. @ 25°C	2.4 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	71°C	
S.F. Amps			Temp. Rise @ S.F. Load	86°C	
			Locked-rotor Power Factor	40.6635	
			Rotor inertia	0.391 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	72	79	82	84	81
Efficiency	83.8	88.9	89.8	89.5	88.4	86.8	88.8
Speed	1789	1778	1766	1753	1738	1722	1744
Line amperes	3.64	4.39	5.45	6.66	8.08	9.67	7.51

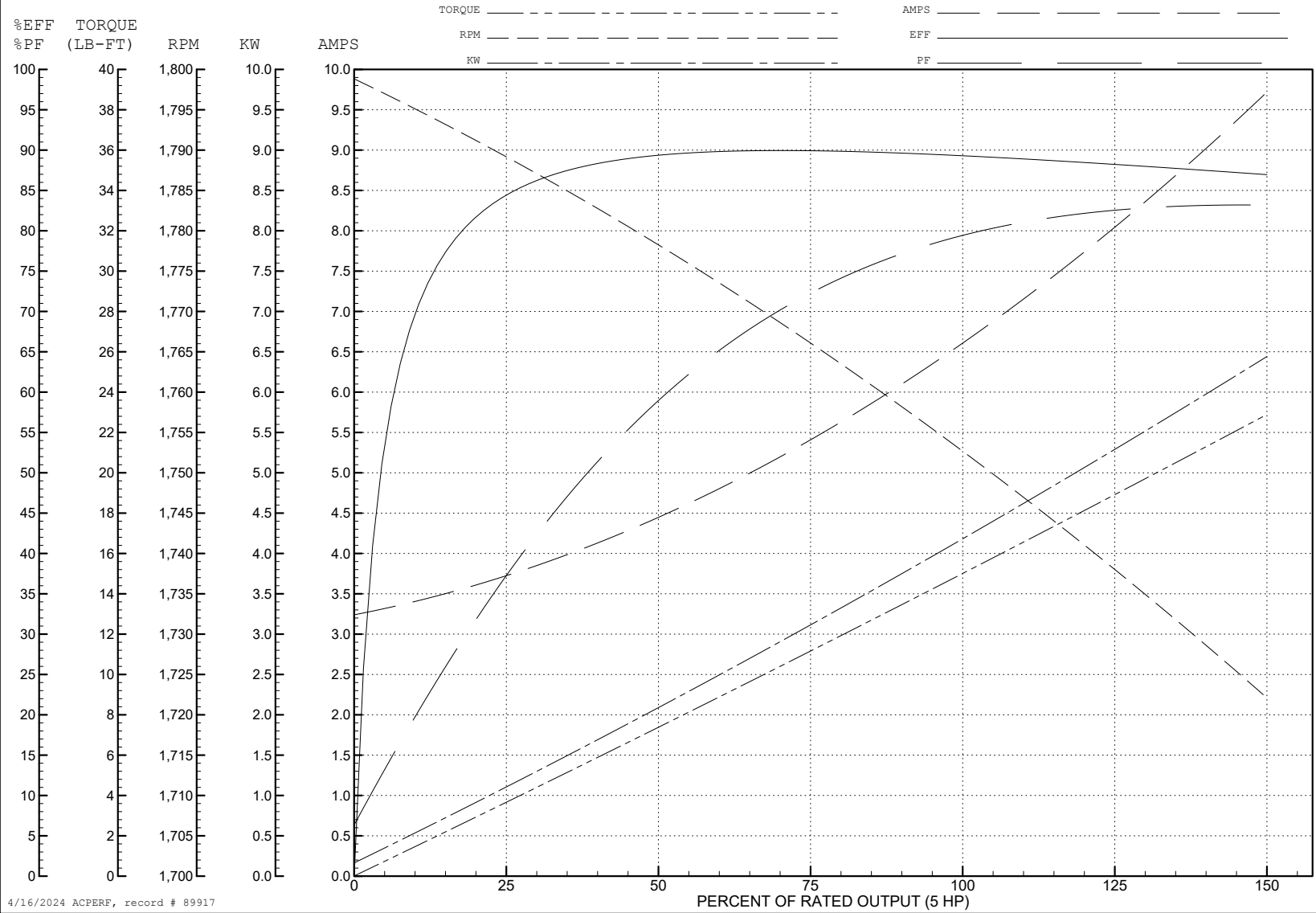
ABB Motors and Mechanical Inc.

WINDING # 36WGQ032

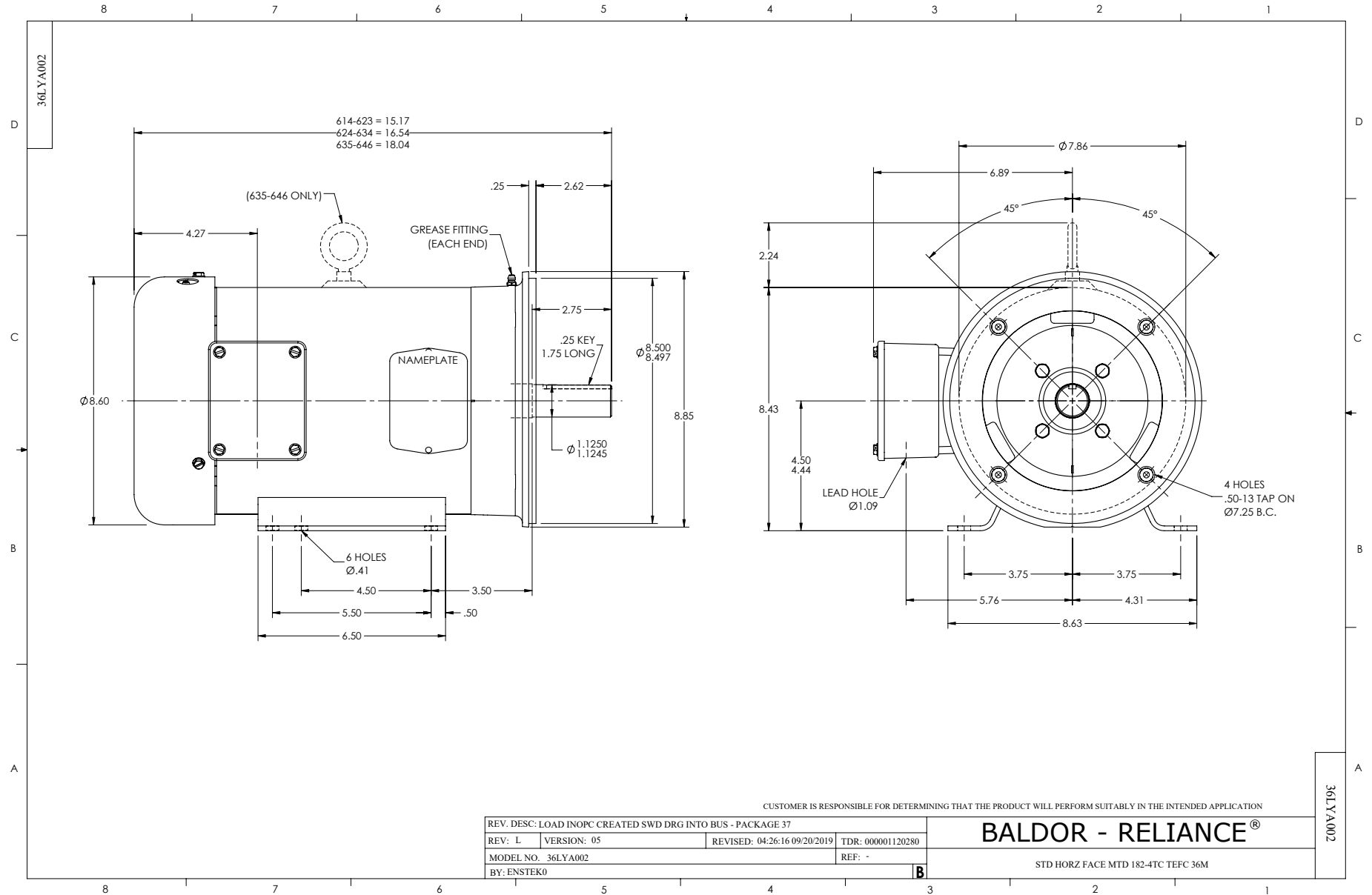
5 HP 3 PH 60 HZ 1755 RPM 460 V 3642M

Typical performance - not guaranteed values.

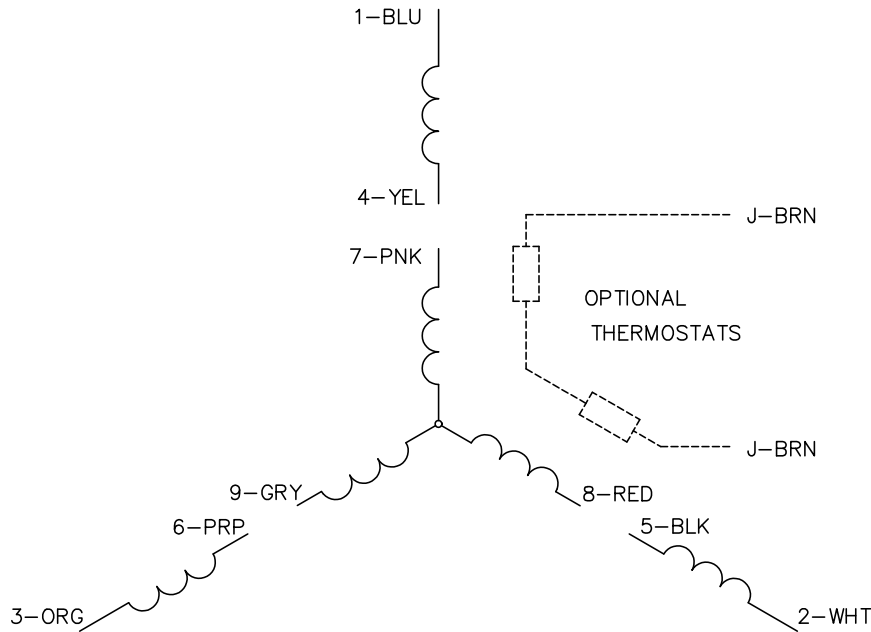
TORQUES (LB-FT): PO=53.1 PU=23.4 LR=34.7 LRA=49.8



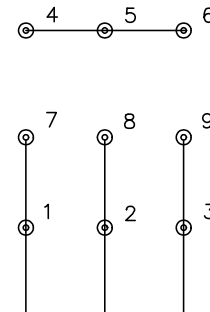
4/16/2024 ACPERF, record # 89917



CD0005

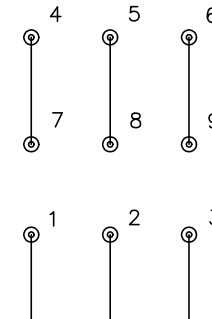


LOW VOLTAGE (2Y)



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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS