

ABB BALDOR RELIANCE III

Customer information packet

CEM3660T-5

3HP, 3460RPM, 3PH, 60HZ, 182TC, 0619M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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	3.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	3.0 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	06F057
Base	
Status	PRD/A
Elec. spec.	06WGX177
Layout	06LYF057
Eff. date	02-26-2025
CD Diagram	CD00006
Poles	02
Leads	3#16
Proprietary	False
Created date	04-26-2010

Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard 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	0618M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.98 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3460 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.	CEM3660T-5										
SPEC.	06F057X177G1										
HP	3										
VOLTS	575										
AMP	3										
RPM	3460										
FRAME	182TC		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	86.5	PF	87								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data

Record # 31006

Typical performance - not guaranteed values

Winding: 06WGX177-R001			Type: 0618M	Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		3	Full Load Torque		4.51 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		3	Breakdown Torque		27.3 LB-FT
R.P.M.		3460	Pull-up Torque		9.75 LB-FT
Hz	60	Phase	Locked-rotor Torque		12.8 LB-FT
NEMA Design Code	B	KVA Code	Starting Current		24.6 A
Service Factor (S.F.)		1.15	No-load Current		1.39 A
NEMA Nom. Eff.	86.5	Power Factor	Line-line Res. @ 25°C		8.42 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		43°C
S.F. Amps			Temp. Rise @ S.F. Load		53°C
			Locked-rotor Power Factor		56.7
			Rotor inertia		0.0795 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	79	85	89	90	88
Efficiency	81.1	86.9	87.9	87.3	86	84	85.8
Speed	3569	3540	3508	3472	3436	3390	3453
Line amperes	1.53	1.89	2.4	3	3.64	4.39	3.48

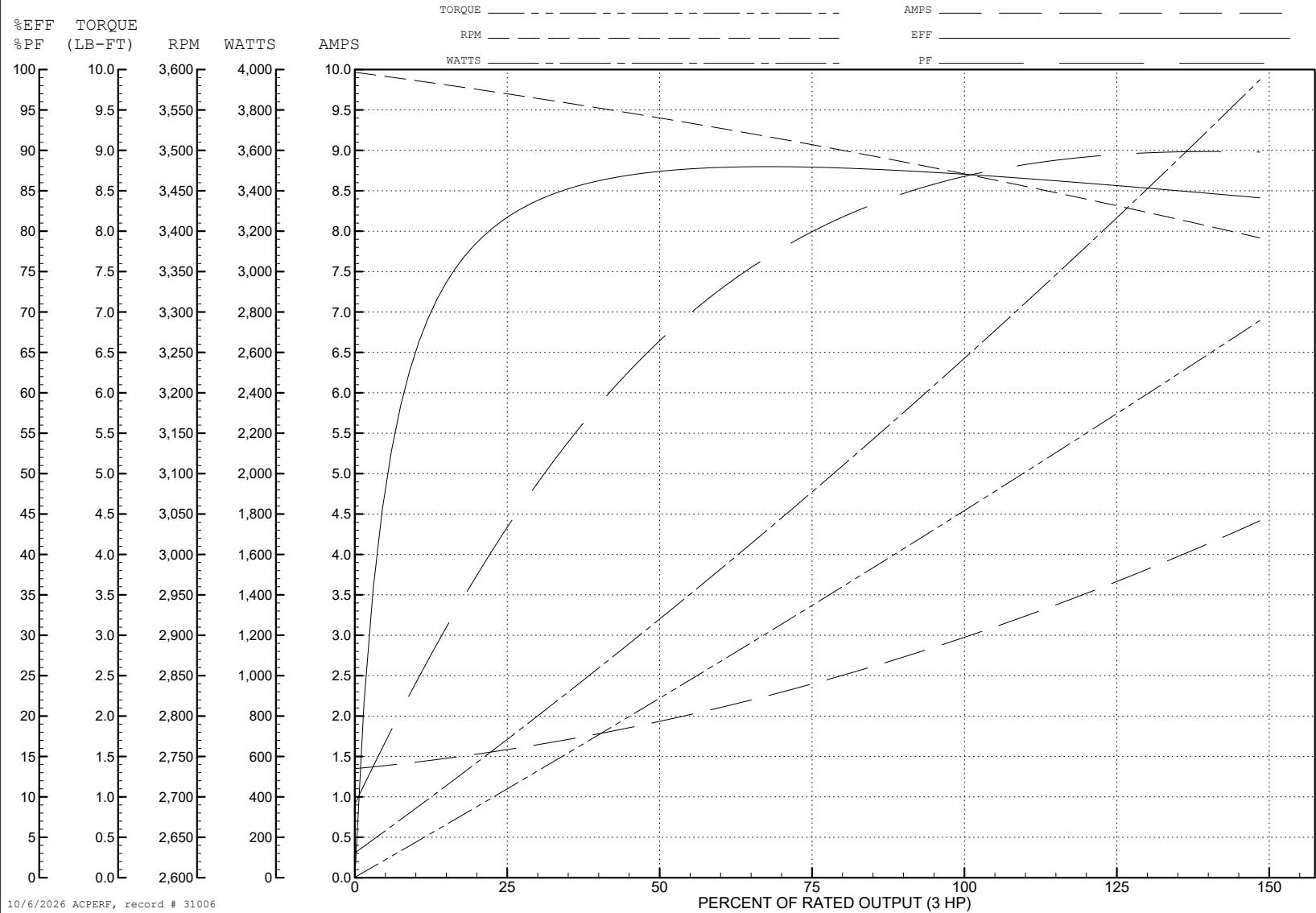
ABB Motors and Mechanical Inc.

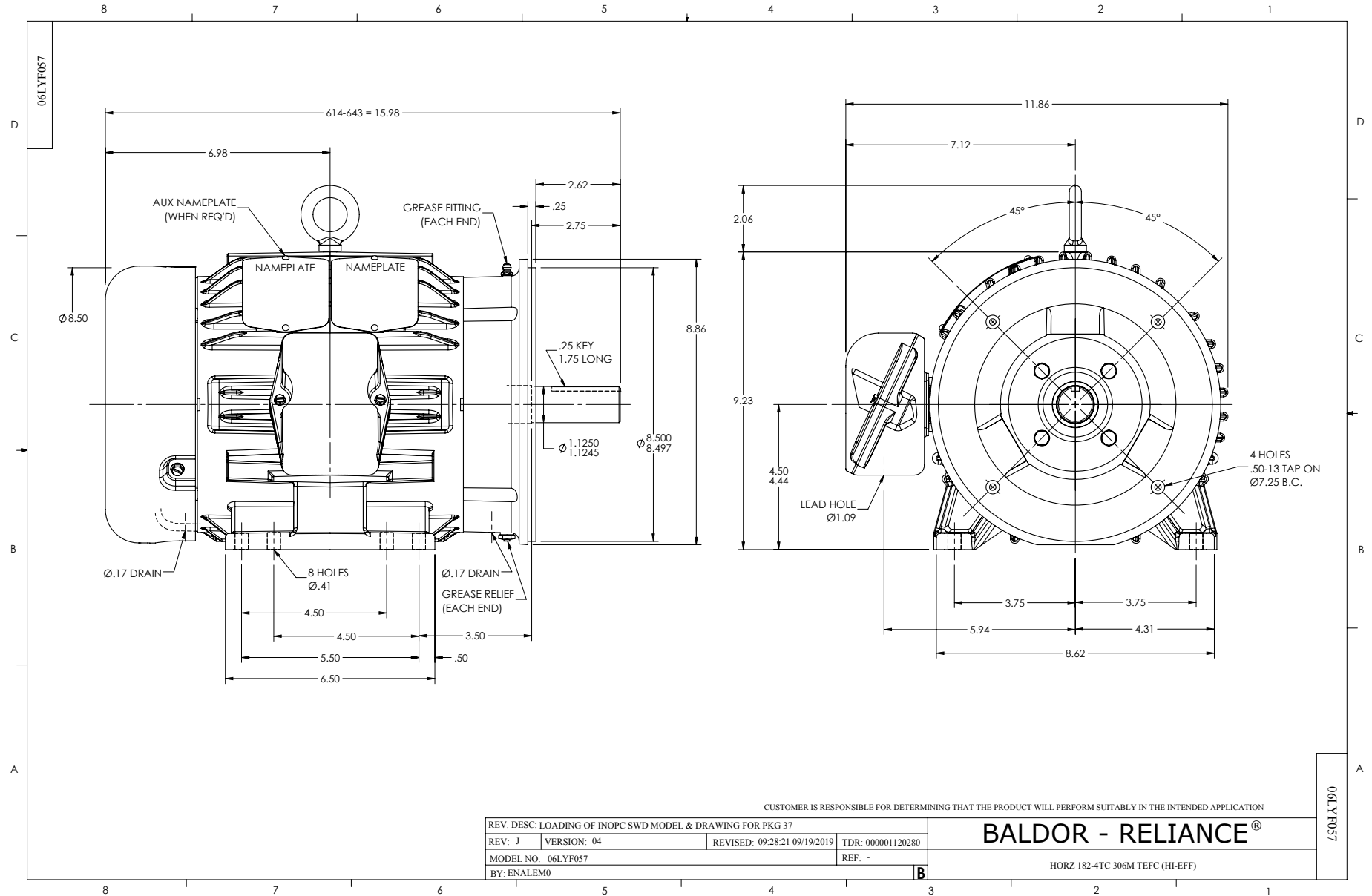
WINDING # 06WGX177

Typical performance - not guaranteed values.

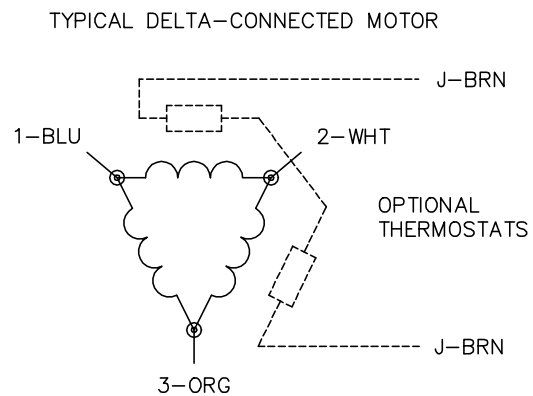
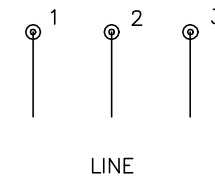
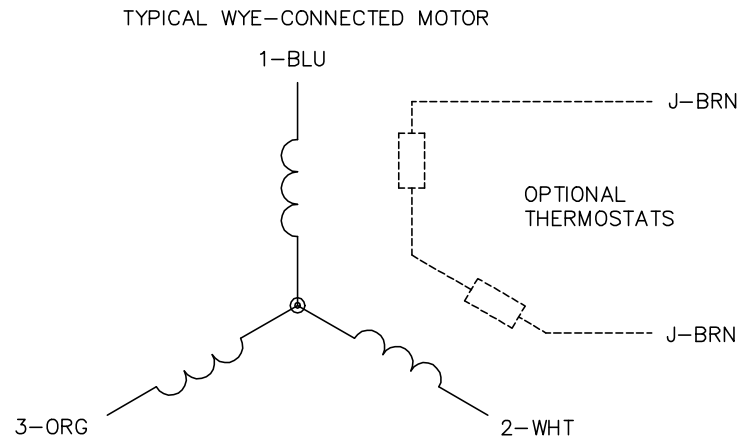
3 HP 3 PH 60 HZ 3460 RPM 575 V 0618M

TORQUES (LB-FT): PO=27.3 PU=9.75 LR=12.8 LRA=24.6





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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