ABB BALDOR RELIANCE

Customer information packet

CEM3660T

3HP, 3470RPM, 3PH, 60HZ, 182TC, 0620M, TEFC, F1
Class - None
Division - Not Applicable

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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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	CURUSEEV
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	3.800 A @ 460.0 V
	7.600 A @ 230.0 V
	8.200 A @ 208.0 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

Part Detail

Revision	H
Type	AC
Mech. spec.	06F057
Base	
Status	PRD/A
Elec. spec.	06WGY471
Layout	06LYF057
Eff. date	02-26-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	01-21-2016

High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 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	89
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	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

NP1259L									
CAT.NO.	CEM3660T								
SPEC.	06F057Y471G1								
HP	3								
VOLTS	230/460								
AMP	7.6/3.8								
RPM	3470								
FRAME	182TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	89						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 55359
Typical performance - not guaranteed values

Winding: 06WGY471-R001	**Type:** 0618M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.6/3.8	**Breakdown Torque**	25.5 LB-FT
R.P.M.			3470	**Pull-up Torque**	9.08 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	29.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.64 A
NEMA Nom. Eff.	86.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	6.11 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	58.7
				Rotor inertia	0.0795 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	70	81	87	90	91	90
Efficiency	81.1	86.6	87.5	86.7	85.3	83.2	87.6
Speed	3568	3538	3505	3468	3430	3382	3456
Line amperes	1.82	2.29	2.94	3.71	4.53	5.5	4.12

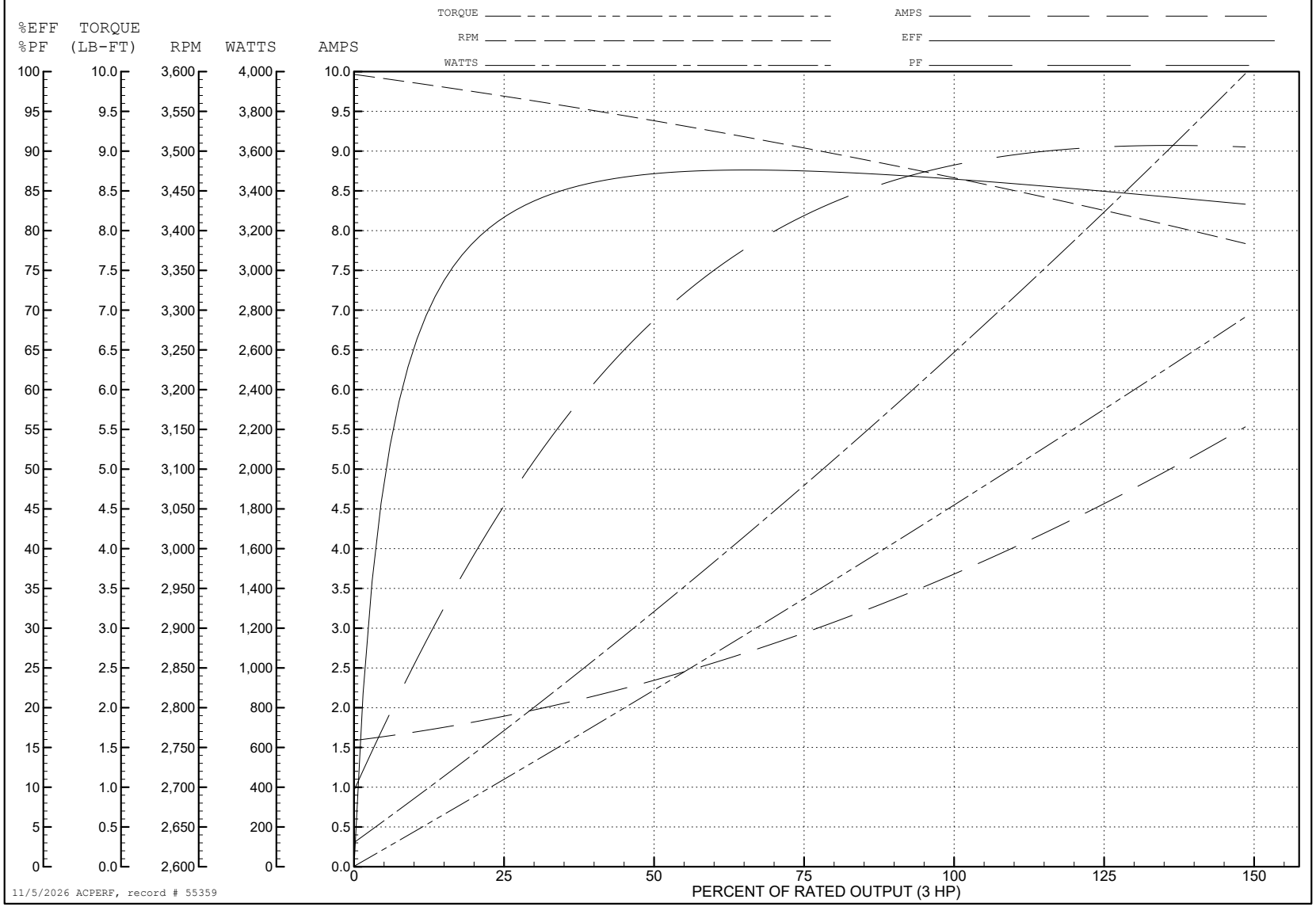
ABB Motors and Mechanical Inc.

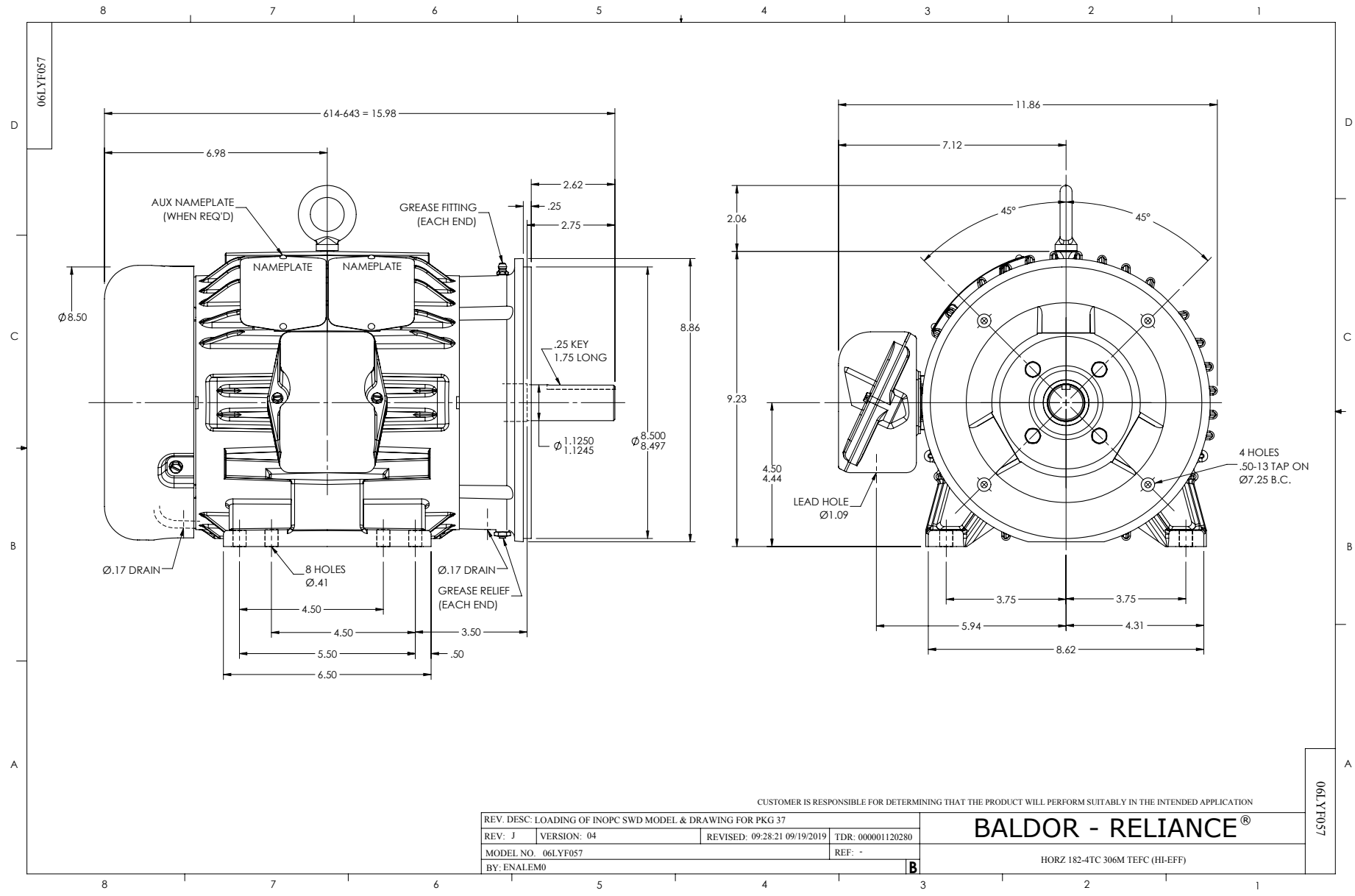
WINDING # 06WGY471

3 HP 3 PH 60 HZ 3470 RPM 460 V 0618M

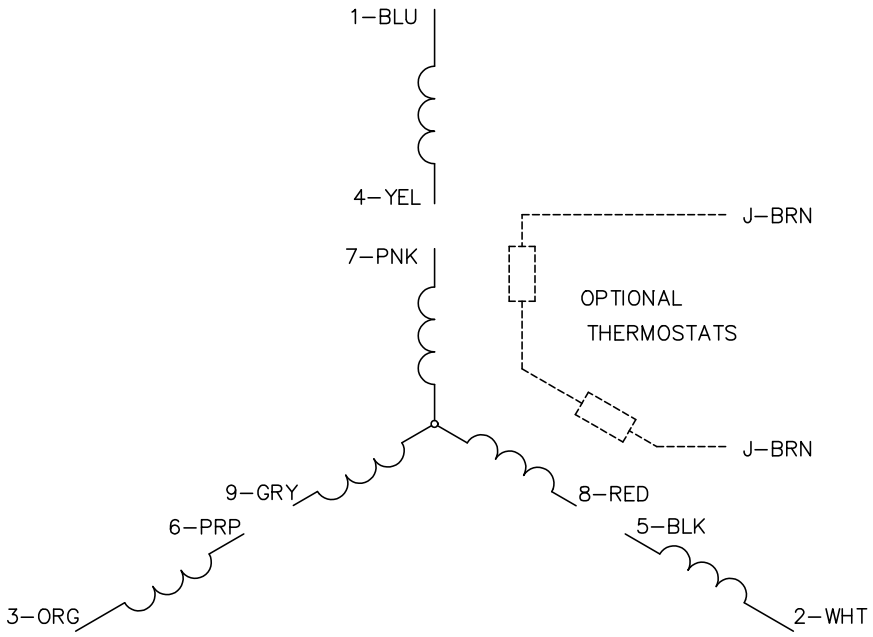
Typical performance - not guaranteed values.

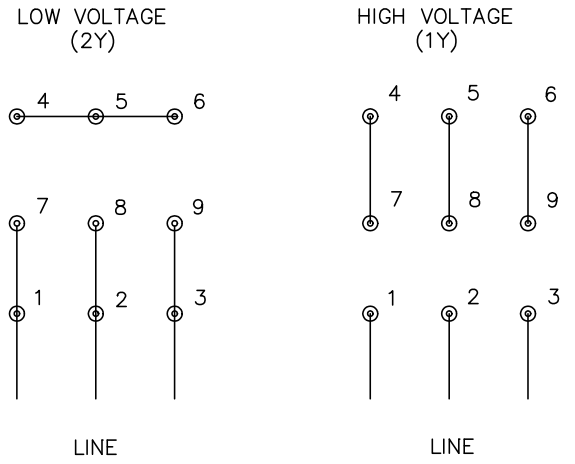
TORQUES(LB-FT): PO=25.5 PU=9.08 LR=11.9 LRA=29.3




06LYF057
614-643 = 15.98
6.98
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EACH END)
2.62
.25
2.75
NAMEPLATE
NAMEPLATE
Ø8.50
8.86
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
Ø 8.500
8.497
Ø.17 DRAIN
8 HOLES
Ø.41
Ø.17 DRAIN
GREASE RELIEF (EACH END)
4.50
4.50
3.50
5.50
.50
6.50
11.86
7.12
2.06
45°
45°
9.23
4.50
4.44
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
3.75
3.75
5.94
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: J
VERSION: 04
REVISED: 09:28:21 09/19/2019
TDR: 000001120280
MODEL NO. 06LYF057
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4TC 306M TEFC (HI-EFF)
06LYF057

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS