ABB BALDOR RELIANCE

Customer information packet

ECP3660T-4

3HP, 3500RPM, 3PH, 60HZ, 182T, 0628M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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
Constant Torque Speed Range	6
Current @ Voltage	3.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AB
Type	AC
Mech. spec.	06H483
Base	
Status	PRD/A
Elec. spec.	06WGW109
Layout	06LYH483
Eff. date	04-12-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	08-07-2006

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.93 IN
Power Factor	92
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	Shaft Slinger
Speed	3500 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

NP3257								
CAT.NO.	ECP3660T-4							
SPEC.	06H483W109G1							
HP	3 TE							
VOLTS	460							
AMP	3.4							
RPM	3500							
FRAME	182T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F	
RATING	40C AMB-CONT							
SN								
DE	6206	**ODE**	6206					
NEMA-NOM-EFF	88.5	**PF**	92					
G.MIN.EFF	88.5	**CC**	010A					
T. CODE	T3C	**T=**	160					

NP3260					
SPEC.	06H483W109G1				
D.E. BRG.	30BC02XP30X				
O.D.E. BRG.	30BC02XP30X				
GREASE	POLYREX EM				
RPM MAX	5400	**MAX. KVAR**	N/A		
BLANK					
INV.TYPE	PWM				
T=	160				
C HP FR	60	**C HP TO**	90		
CT HZ FROM	6	**CT HZ TO**	60		
VT HZ FROM	3	**VT HZ TO**	60		
HTR-VOLTS		**HTR-AMPS**			
HTR-WATTS		**MAX. SPACE HEATER TEMP.**			

AC Induction Motor Performance Data
Record # 47068
Typical performance - not guaranteed values

Winding: 06WGW109-R033	**Type:** 0628M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			3.4	**Breakdown Torque**	23.3 LB-FT
R.P.M.			3500	**Pull-up Torque**	15.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.06 A
NEMA Nom. Eff.	88.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	3.92 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	32°C
S.F. Amps				**Temp. Rise @ S.F. Load**	38°C
				Locked-rotor Power Factor	44.2
				Rotor inertia	0.126 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	83	89	92	94	95	93
Efficiency	80.9	87.5	89.1	89.3	88.9	88.2	89.1
Speed	3577	3556	3534	3509	3487	3467	3500
Line amperes	1.39	1.96	2.66	3.4	4.12	4.79	3.83

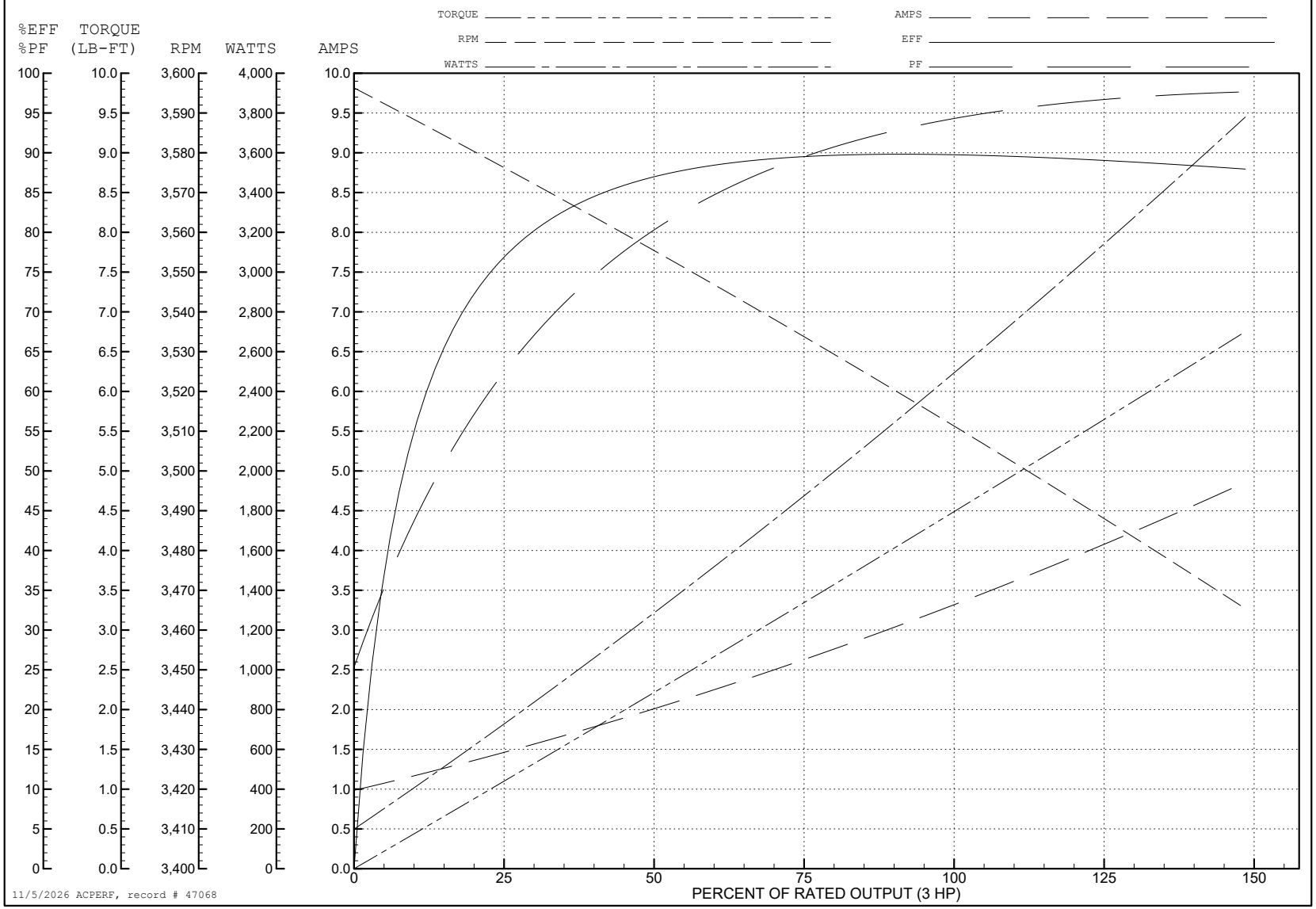
ABB Motors and Mechanical Inc.

WINDING # 06WGW109

3 HP 3 PH 60 HZ 3500 RPM 460 V 0628M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=23.3 PU=15.2 LR=16 LRA=34.5



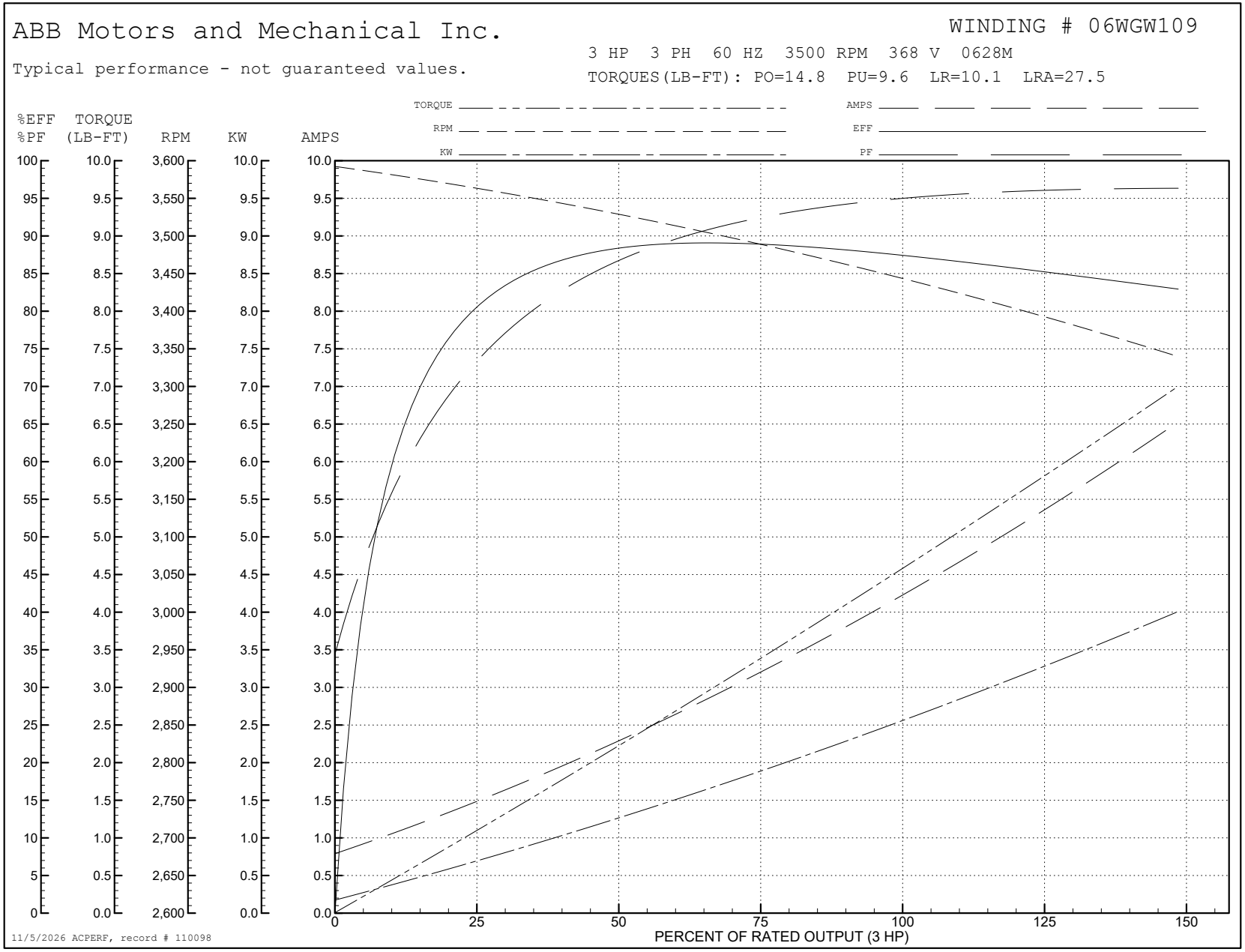
AC Induction Motor Performance Data
Record # 110098
Typical performance - not guaranteed values

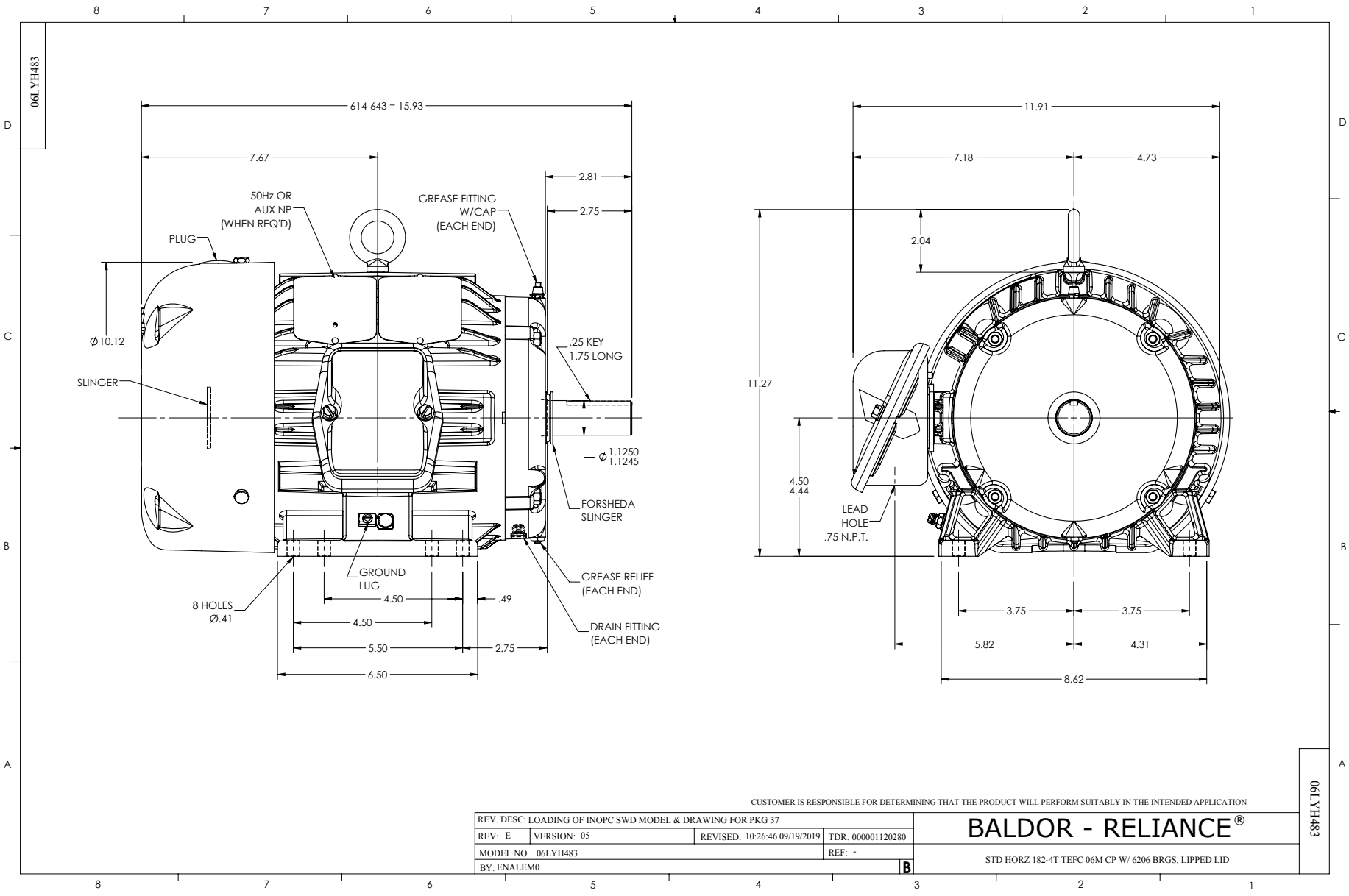
Winding: 06WGW109-R033	**Type:** 0628M	**Enclosure:** TEFC

Nameplate Data				**368 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.59 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			3.4	**Breakdown Torque**	14.8 LB-FT
R.P.M.			3500	**Pull-up Torque**	9.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.1 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	27.5 A
Service Factor (S.F.)			1.15	**No-load Current**	0.85 A
NEMA Nom. Eff.	88.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	4.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	53°C
				Locked-rotor Power Factor	44.2
				Rotor inertia	0.126 LB-FT2

Load Characteristics 368 V, 60 Hz, 3 HP

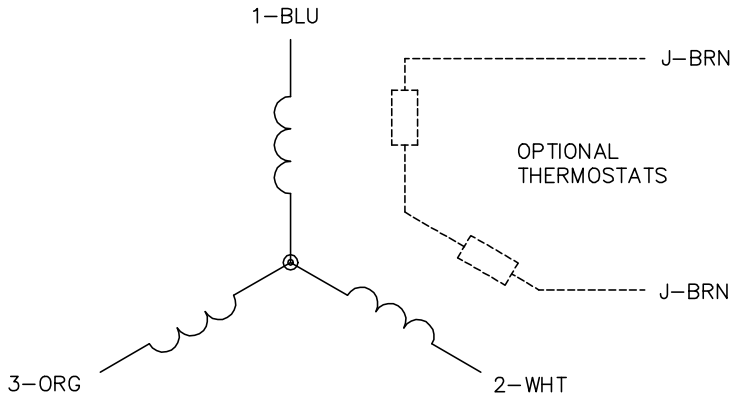
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	75	89	93	94	95	97	95
Efficiency	83.5	88.2	88.3	87.2	85.4	82.9	86.1
Speed	3562	3527	3488	3443	3395	3339	3414
Line amperes	1.43	2.27	3.25	4.29	5.37	6.48	4.94

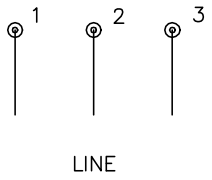

ABB Motors and Mechanical Inc.
WINDING # 06WGW109
3 HP 3 PH 60 HZ 3500 RPM 368 V 0628M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=14.8 PU=9.6 LR=10.1 LRA=27.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 110098


06LYH483
614-643 = 15.93
7.67
2.81
2.75
50Hz OR
AUX NP
(WHEN REQ'D)
PLUG
GREASE FITTING
W/CAP
(EACH END)
Ø 10.12
SLINGER
.25 KEY
1.75 LONG
Ø 1.1250
1.1245
FORSHEDA
SLINGER
GROUND
LUG
8 HOLES
Ø.41
4.50
.49
4.50
5.50
2.75
6.50
GREASE RELIEF
(EACH END)
DRAIN FITTING
(EACH END)
11.91
7.18
4.73
2.04
11.27
4.50
4.44
LEAD
HOLE
.75 N.P.T.
3.75
3.75
5.82
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: E
VERSION: 05
REVISED: 10:26:46 09/19/2019
TDR: 000001120280
MODEL NO. 06LYH483
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 06M CP W/ 6206 BRGS, LIPPED LID
06LYH483

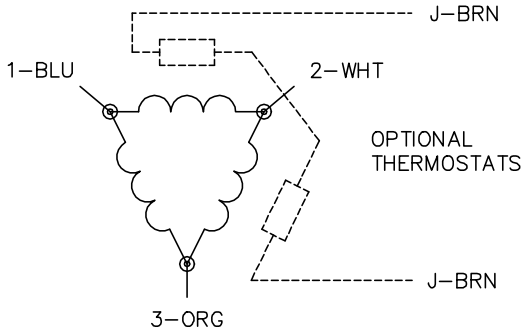
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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