

ABB BALDOR RELIANCE III

Customer information packet

VECP3660T-4

3HP, 3500RPM, 3PH, 60HZ, 182TC, 0628M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CL I 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	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.8
Current @ Voltage	3.400 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	06H480
Base	
Status	PRD/A
Elec. spec.	06WGW109
Layout	06LYH480
Eff. date	10-01-2025
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	03-21-2007

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	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	16.98 IN
Power Factor	92
Product Family	Chemical Processing (Not DC)
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 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.	VECP3660T-4								
SPEC.	06H480W109G1								
HP	3 TE								
VOLTS	460								
AMP	3.4								
RPM	3500								
FRAME	182TC		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.	06H480W109G1		
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	1.8	CT HZ TO	60
VT HZ FROM	0-	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

Parts List

Part number	Description	Quantity
SA155729	SA 06H480W109G1	1.000 ea
RA144358	RA 06H480W109G1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XF2520A16	SCREW,HEX SER SLT HD,ZN 1/4-20X1.00LG TD	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	2.000 ea
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP1100B73G	FREP 6206,GRSR,RLF,.25-20 FH HOLES @.50	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP1300A48G	SPL PU 206 BRG. 182-4TC W/GREASER & RELI	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HA3101A34	THRUBOLT- 1/4-20 X 10.375	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
06FH5000A05GSP	FAN COVER W/37FH4500 DRIP ASSY (GRAY EPO	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	3.000 ea
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 ea
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea

HA1005A22	SLINGER, OD 2.00, ID 1.14, 206 BRG, GM	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
MG1025N19	WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8	0.028 ga
LC0006	CONNECTION LABEL	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3257	SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM	1.000 ea
NP3260	SS CP SUPER-E AUX DATA INFORMATION	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

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	Locked-rotor Torque			16 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			34.5 A
Service Factor (S.F.)		1.15	No-load Current			1.06 A
NEMA Nom. Eff.	88.5	Power Factor	Line-line Res. @ 25°C			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

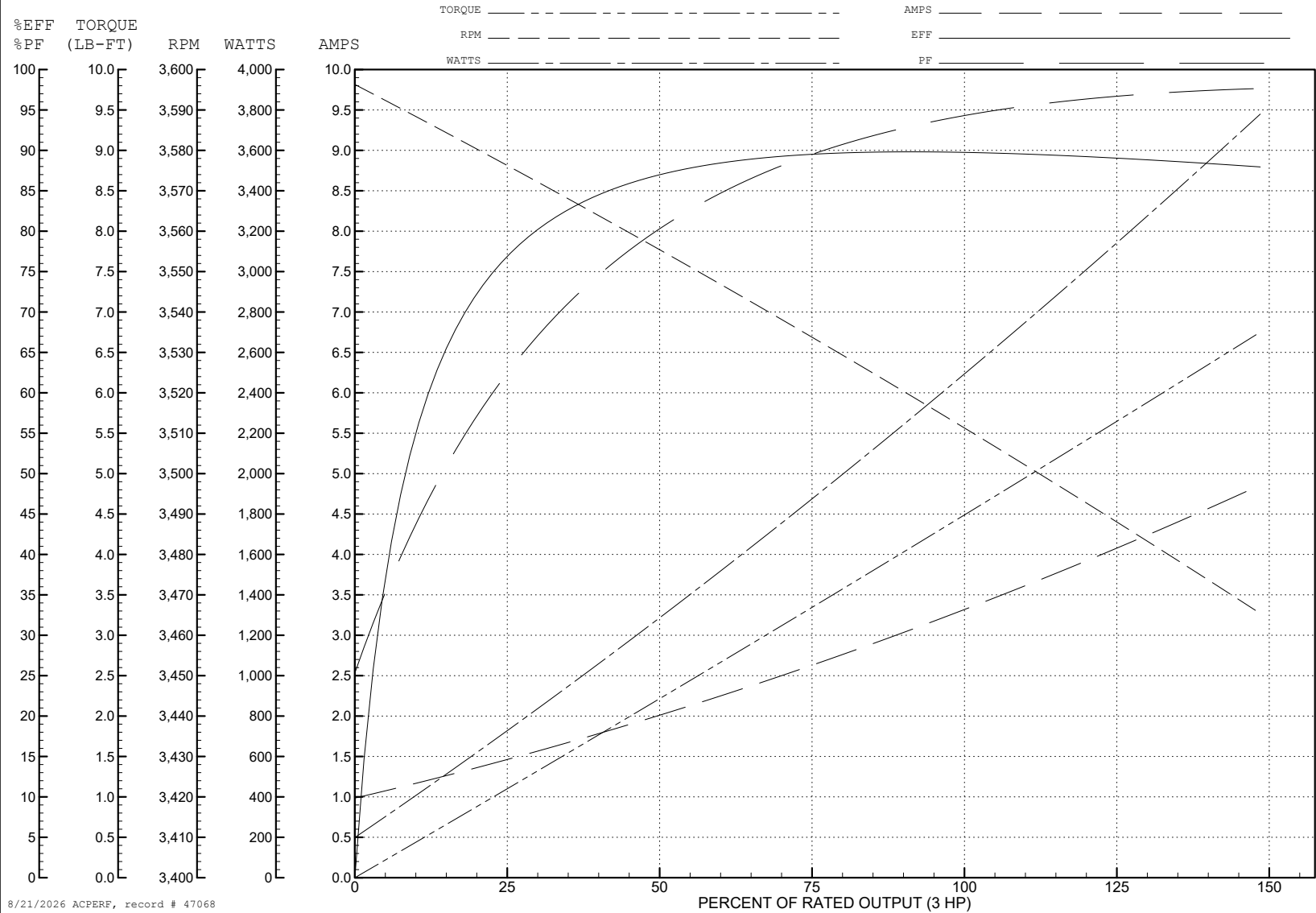
ABB Motors and Mechanical Inc.

WINDING # 06WGW109

Typical performance - not guaranteed values.

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

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	Locked-rotor Torque		10.1 LB-FT	
NEMA Design Code	B	KVA Code	Starting Current		27.5 A	
Service Factor (S.F.)		1.15	No-load Current		0.85 A	
NEMA Nom. Eff.	88.5	Power Factor	Line-line Res. @ 25°C		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-FT ²	

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

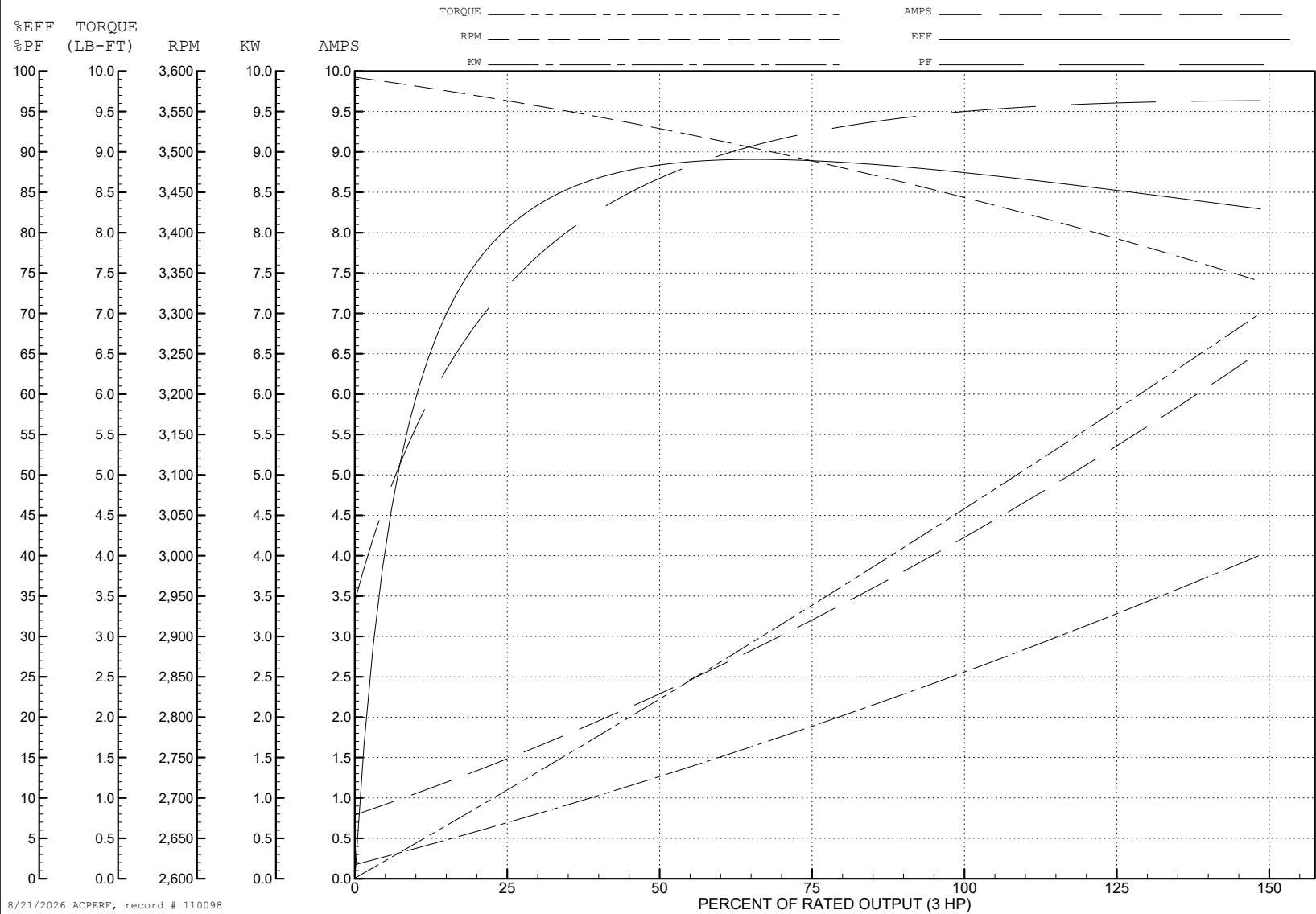
ABB Motors and Mechanical Inc.

WINDING # 06WGW109

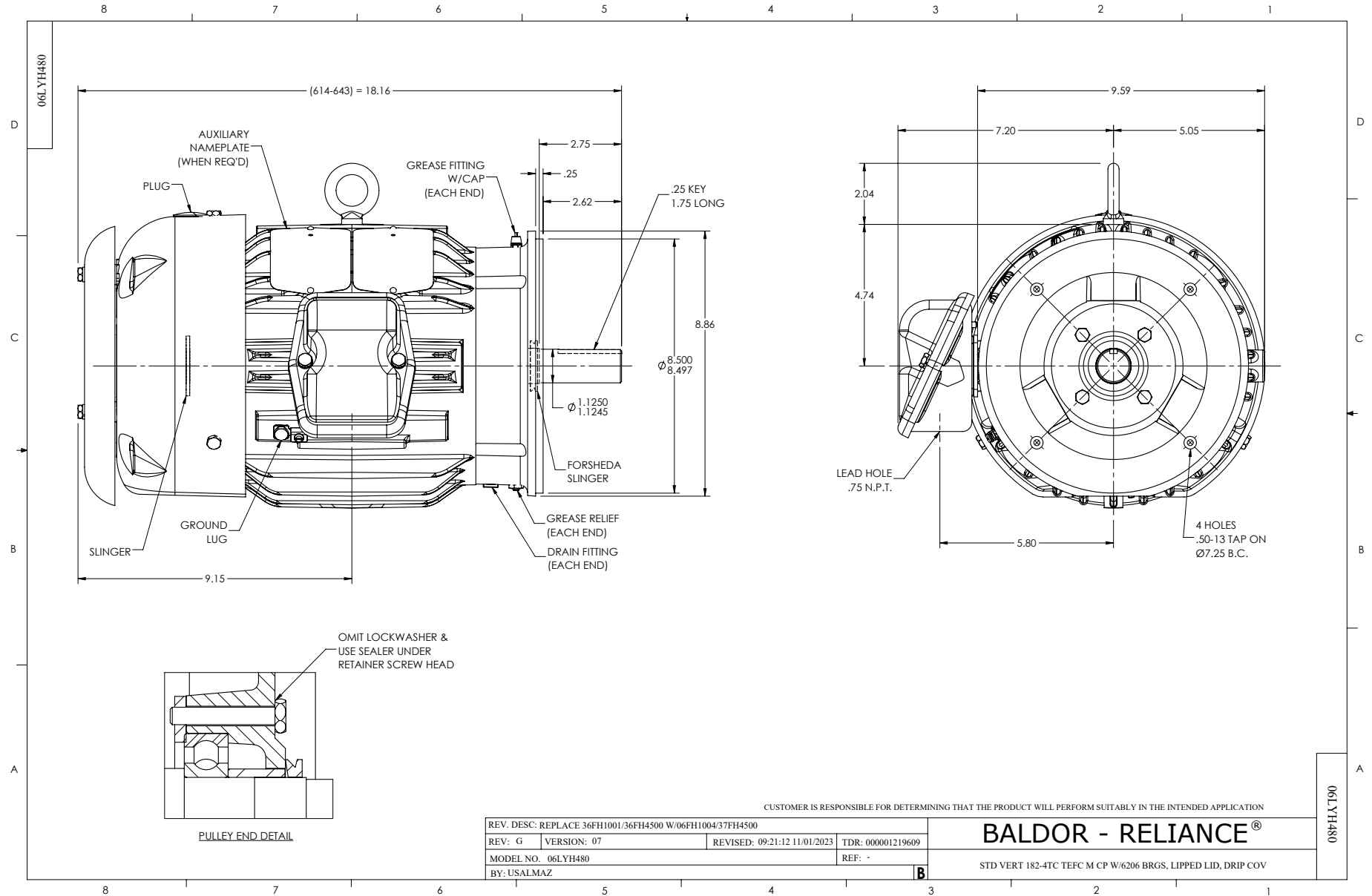
Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3500 RPM 368 V 0628M

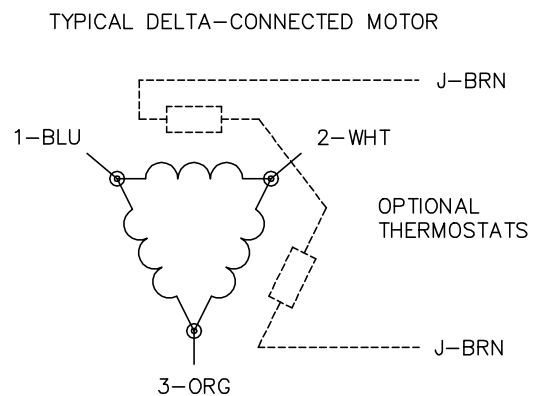
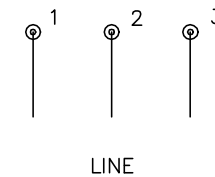
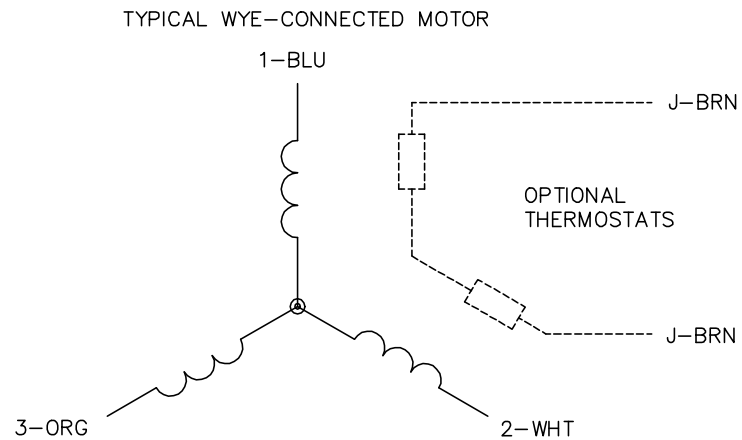
TORQUES (LB-FT): PO=14.8 PU=9.6 LR=10.1 LRA=27.5



8/21/2026 ACPERF, record # 110098



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

SH 1 of 1