BALDOR • RELIANCE

Customer information packet

EFM3211T

3HP, 1765RPM, 3PH, 60HZ, 182T, 3630M, OPSB, F2
Class - None
Division - Not Applicable

12/31/2022 2:19:17 PM

Specifications

Enclosure	OPSB
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV
	NEMA PREMIUM
	UR
	CSA
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	8.400 A @ 230.0 V
	8.500 A @ 208.0 V
	4.200 A @ 460.0 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 Face Code	Standard

Part detail

Revision	N
Type	AC
Mech. spec.	36B106
Base	
Status	PRD/A
Elec. spec.	36WGS658
Layout	36LYB106
Eff. date	06-24-2020
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-01-2011

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3630M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	15.00 IN
Power Factor	74
Product Family	General Purpose
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	No Slinger
Speed	1765 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

NP3553L											
CAT.NO.	EFM3211T										
SPEC	36B106S658G1										
HP	3										
VOLTS	230/460										
AMPS	8.4/4.2										
RPM	1765										
FRAME	182T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	F				
NEMA NOM. EFF	89.5	**PF**	74								
RATING	40C AMB-CONT										
CC	010A			**USABLE AT 208V**		8.5					
ENCL	OPSB	**SER**									
DE	6206		**ODE**	6205							
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 33604
Typical performance - not guaranteed values

Winding: 36WGS658-R001	**Type:** 3630M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.87 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	37.4 LB-FT
R.P.M.			1765	**Pull-up Torque**	17.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.2 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.3 A
Service Factor (S.F.)			1.15	**No-load Current**	2.43 A
NEMA Nom. Eff.	89.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	3.8716 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	24°C
S.F. Amps				**Temp. Rise @ S.F. Load**	28°C
				Locked-rotor Power Factor	43
				Rotor inertia	0.279 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	66	73	79	81	77
Efficiency	80.2	87.5	89.5	89.7	89.5	88.7	89.6
Speed	1791.1	1783	1774.5	1765.5	1755.7	1744.8	1760
Line amperes	2.6	2.99	3.54	4.25	4.97	5.83	4.68

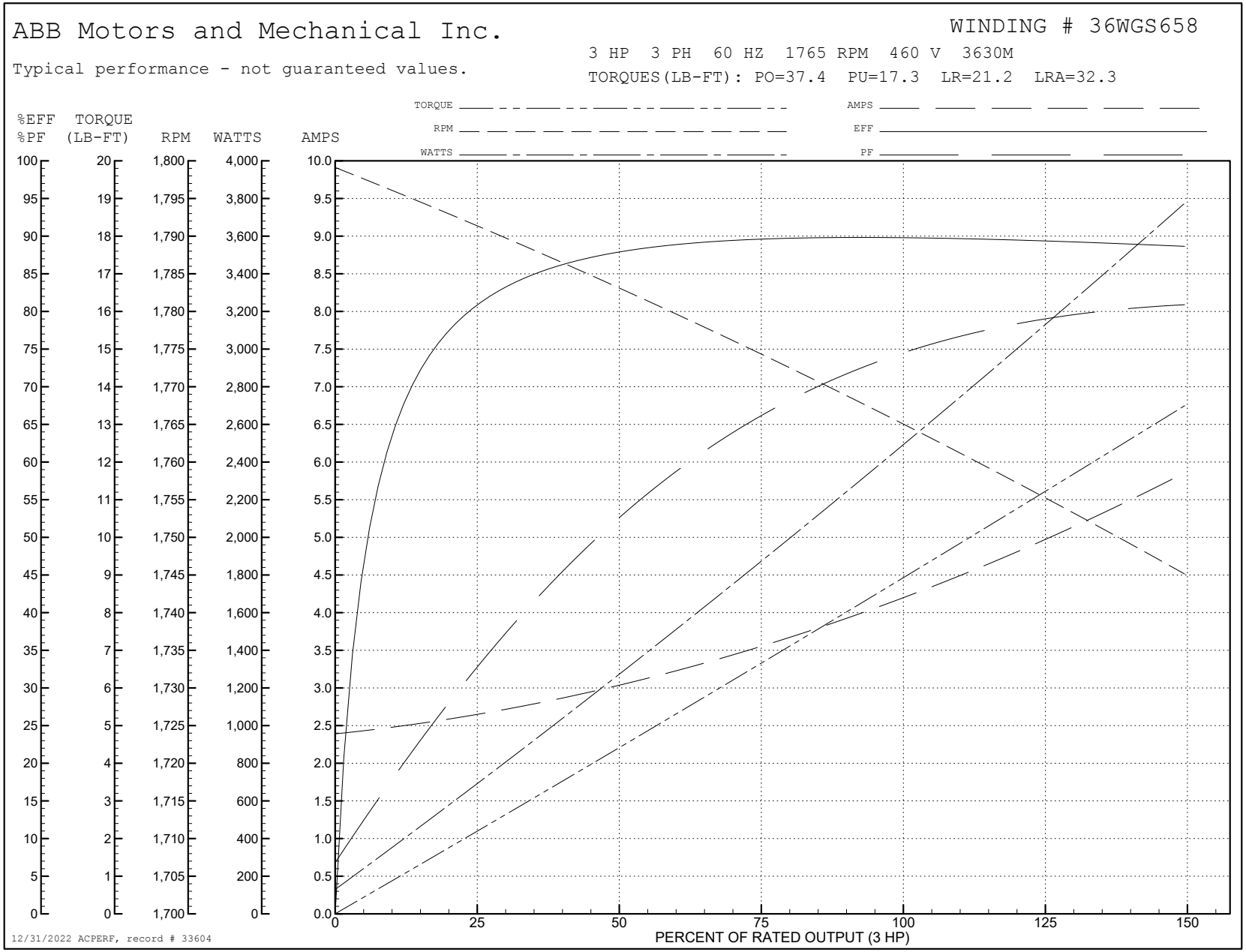
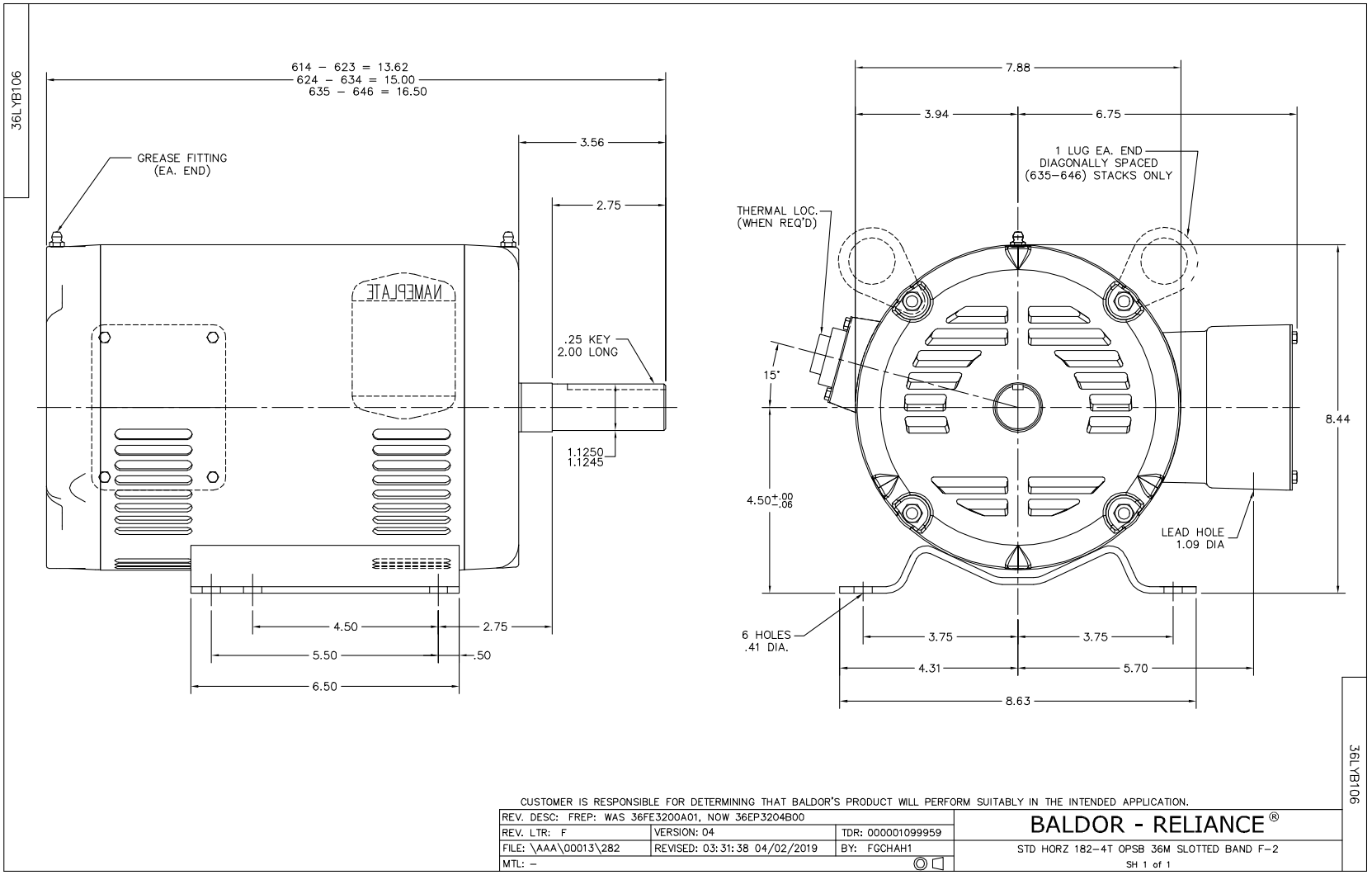
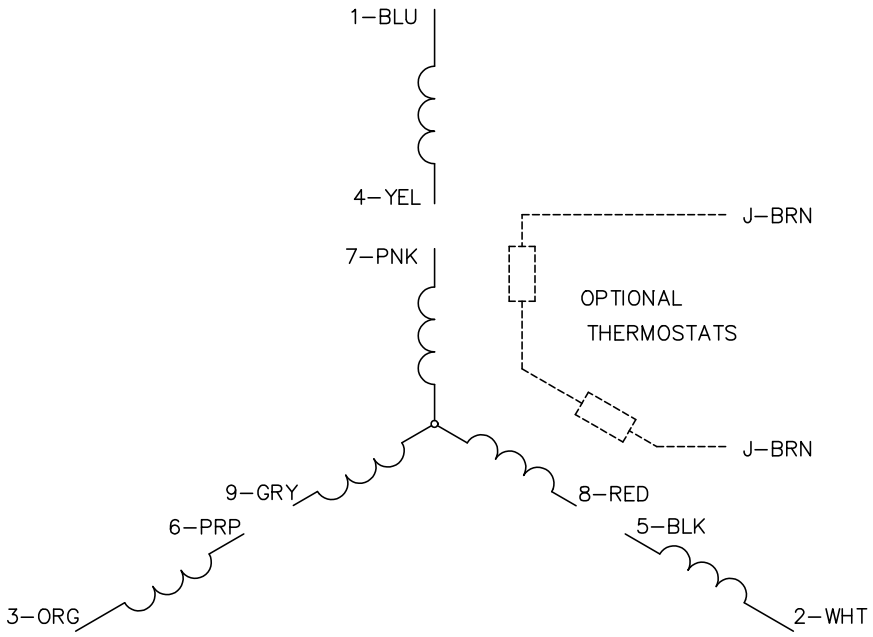
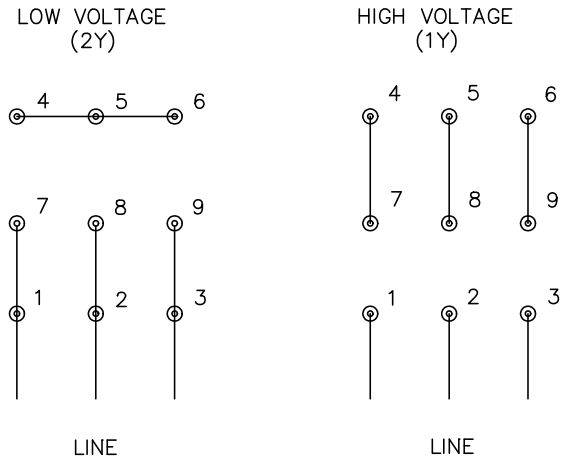


ABB Motors and Mechanical Inc.
WINDING # 36WGS658
3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=37.4 PU=17.3 LR=21.2 LRA=32.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
12/31/2022 ACPERF, record # 33604


36LYB106
614 – 623 = 13.62
624 – 634 = 15.00
635 – 646 = 16.50
GREASE FITTING
(EA. END)
3.56
2.75
NAMEPLATE
.25 KEY
2.00 LONG
1.1250
1.1245
4.50
2.75
5.50
.50
6.50
7.88
3.94
6.75
1 LUG EA. END
DIAGONALLY SPACED
(635–646) STACKS ONLY
THERMAL LOC.
(WHEN REQ'D)
15°
8.44
4.50 +.00 −.06
LEAD HOLE
1.09 DIA
6 HOLES
.41 DIA.
3.75
3.75
4.31
5.70
8.63
36LYB106
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: FREP: WAS 36FE3200A01, NOW 36EP3204B00
REV. LTR: F
VERSION: 04
TDR: 000001099959
FILE: \AAA\00013\282
REVISED: 03:31:38 04/02/2019
BY: FGCHAH1
MTL: –
BALDOR - RELIANCE®
STD HORZ 182–4T OPSB 36M SLOTTED BAND F–2
SH 1 of 1

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