

ABB BALDOR RELIANCE III

Customer information packet

EM3211TA

3HP, 1755RPM, 3PH, 60HZ, 182T, 3632M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182T
Frame Material	Steel
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUS 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	8.900 A @ 208.0 V 8.800 A @ 230.0 V 4.400 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
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	36B101
Base	
Status	PRD/A
Elec. spec.	36WGS576
Layout	36LYB101
Eff. date	10-14-2024
CD Diagram	CD0007
Poles	04
Leads	12#16
Proprietary	False
Created date	09-17-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.00 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1760 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP2601L											
CAT.NO.	EM3211TA										
SPEC.	36B101S576G1										
HP	3										
VOLTS	230/460										
AMP	8.8/4.4										
RPM	1760										
FRAME	182T		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	75								
RATING	40C AMB-CONT										
CC	010A										
DE	6206		ODE	6205							
ENCL	OPSB	SN									

AC Induction Motor Performance Data

Record # 41081

Typical performance - not guaranteed values

Winding: 36WGS576-R001			Type: 3631M		Enclosure: OPSB			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		3	Full Load Torque		9.13 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		8.8/4.4	Breakdown Torque		32.8 LB-FT			
R.P.M.		1760	Pull-up Torque		21.4 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		23.6 LB-FT		
NEMA Design Code		B	KVA Code	K	Starting Current		29.6 A	
Service Factor (S.F.)		1.15	No-load Current		2.3 A			
NEMA Nom. Eff.		89.5	Power Factor		75	Line-line Res. @ 25°C		3.9718 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		25°C	
S.F. Amps			Temp. Rise @ S.F. Load		30°C			

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	68	75	79	82	77
Efficiency	82.3	87.9	89	88.7	87.7	86.3	88.1
Speed	1786.7	1774.4	1761.1	1746.7	1731.5	1713.8	1738
Line amperes	2.5	2.93	3.54	4.25	5.08	5.99	4.75

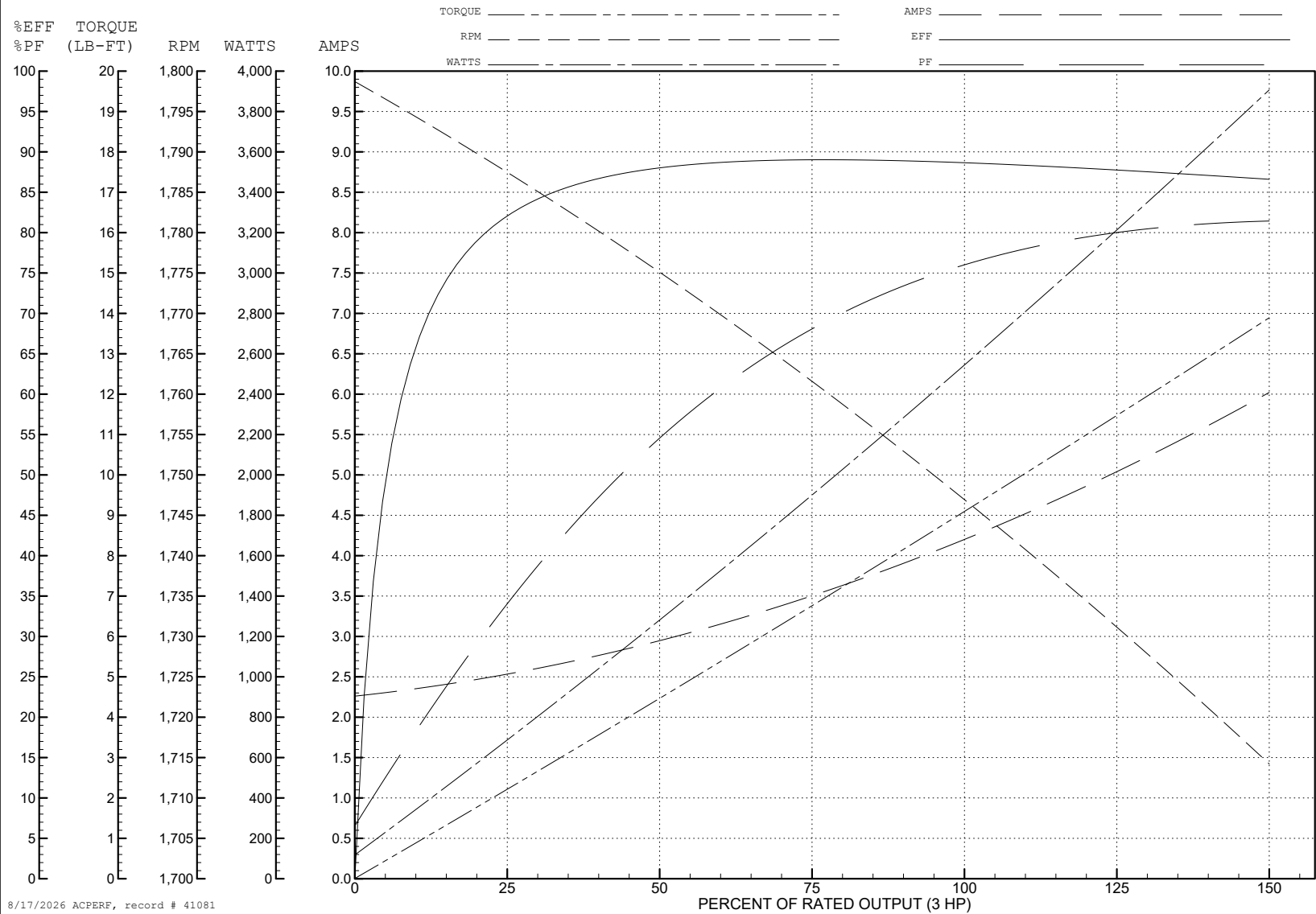
ABB Motors and Mechanical Inc.

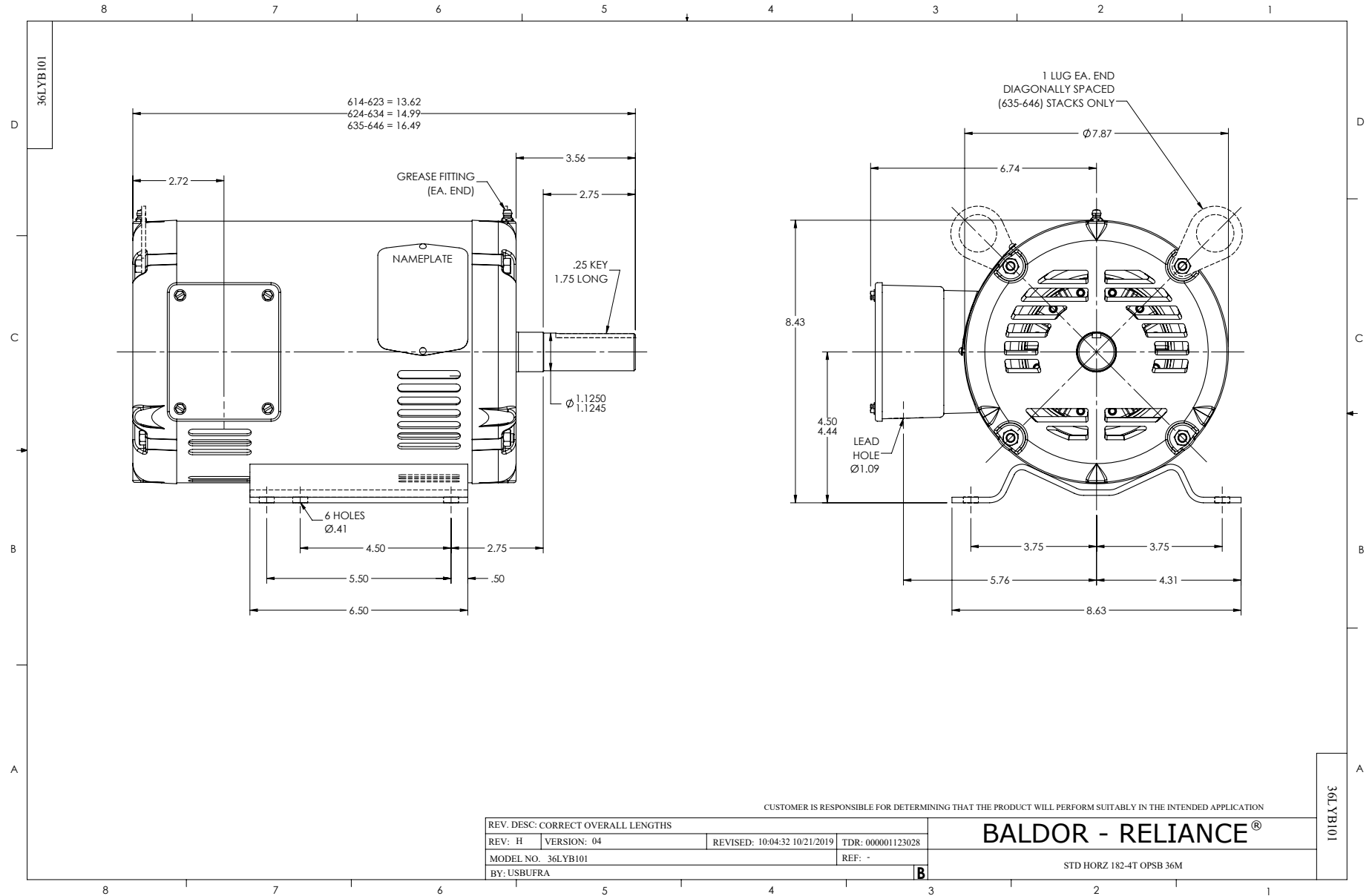
WINDING # 36WGS576

Typical performance - not guaranteed values.

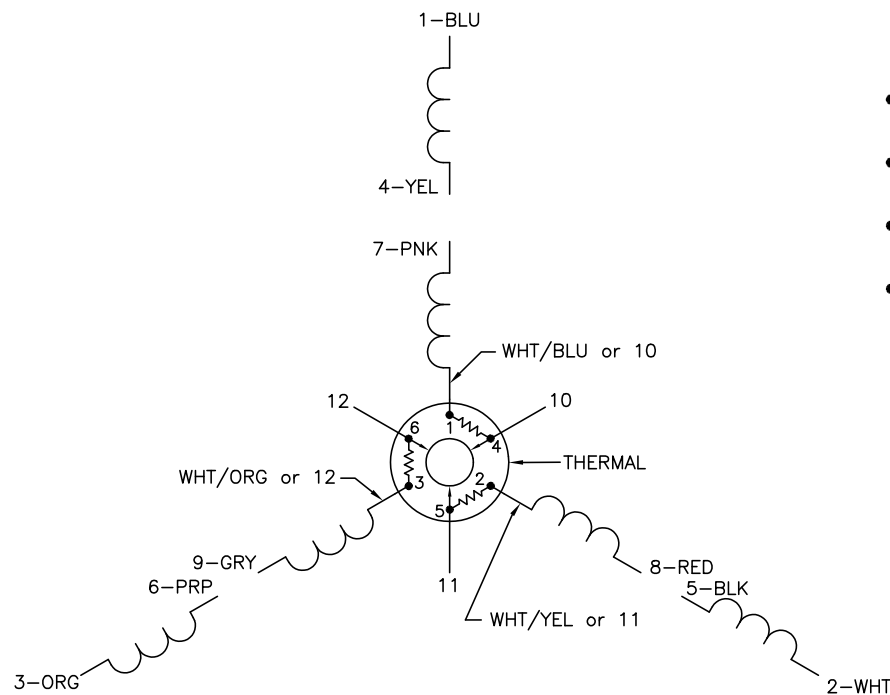
3 HP 3 PH 60 HZ 1760 RPM 460 V 3631M

TORQUES (LB-FT): PO=32.8 PU=21.4 LR=23.6 LRA=29.6

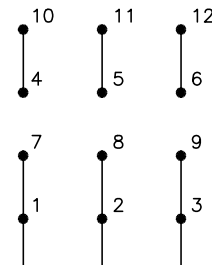




CD0007

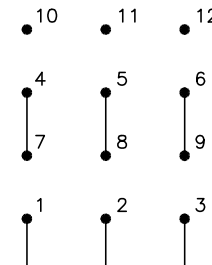


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE

REV. LTR: E

BY: EAH

REVISED: 05/06/99 17:1

TDR: 0181040

200000

FILE: AAA00008370

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007