ABB BALDOR RELIANCE

Customer information packet

CEWDM3616T

7.5HP, 3488RPM, 3PH, 60HZ, 184TC, 3640M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184TC
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	7.500 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	11.300 A @ 460.0 V
	22.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.3 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	36F317
Base	
Status	PRD/A
Elec. spec.	36WGZ654
Layout	36LYF317
Eff. date	09-14-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-07-2025

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.04 IN
Power Factor	86
Product Family	Wash Down
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3488 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

NP1669L									
CAT.NO.	CEWDM3616T								
SPEC.	36F317Z654								
HP	7.5								
VOLTS	230/460								
AMP	17.6/8.8								
RPM	3490								
FRAME	184TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	89.5	**PF**	86						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6205						
ENCL	TEFC	**SN**							
BLANK									

AC Induction Motor Performance Data
Record # 118144
Typical performance - not guaranteed values

Winding: 36WGZ654-R003	**Type:** 3640M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.39 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			17.6/8.8	**Breakdown Torque**	76.7 LB-FT
R.P.M.			3490	**Pull-up Torque**	45.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.2 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	109 A
Service Factor (S.F.)			1.15	**No-load Current**	3.6 A
NEMA Nom. Eff.	89.5	**Power Factor**	86	**Line-line Res. @ 25ºC**	1.4142 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	93°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.178 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	83	89	91	92	90
Efficiency	84.8	89.7	90.4	90	88.9	87.5	89.3
Speed	3571.6	3545.5	3517.7	3488.2	3456.6	3423.4	3469
Line amperes	4.17	5.41	7.06	8.89	10.9	13	10.1

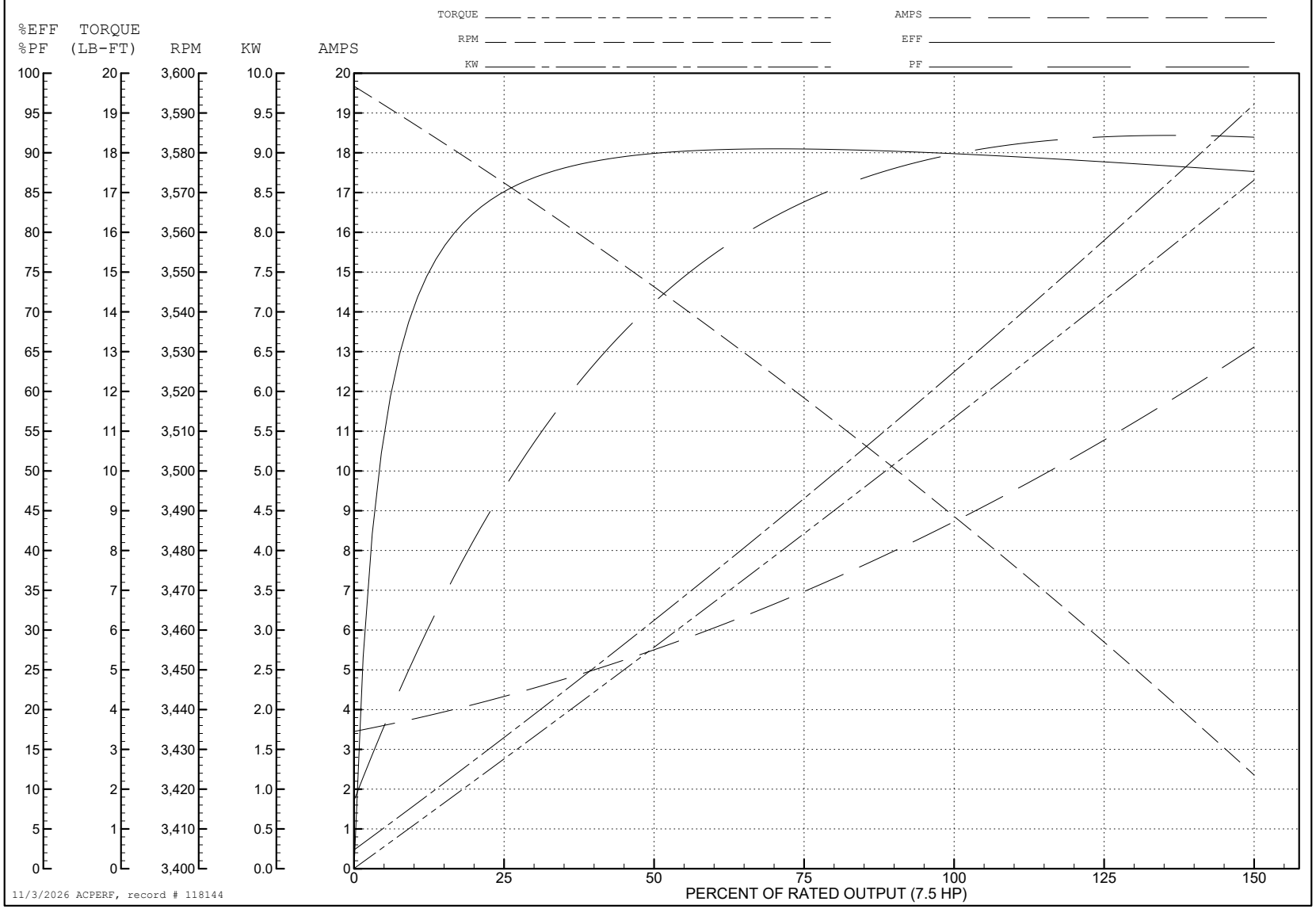
ABB Motors and Mechanical Inc.

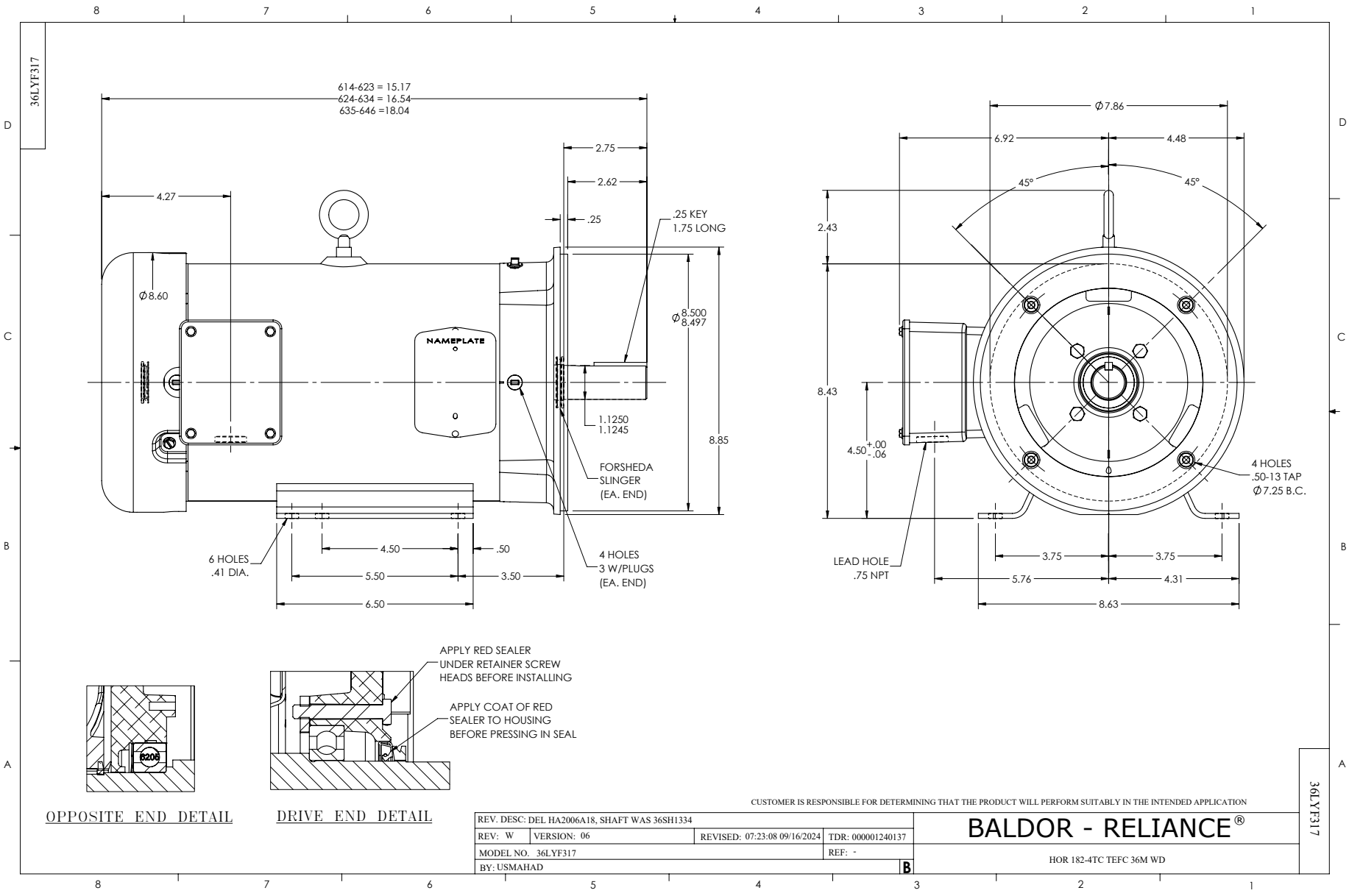
WINDING # 36WGZ654

7.5 HP 3 PH 60 HZ 3490 RPM 460 V 3640M

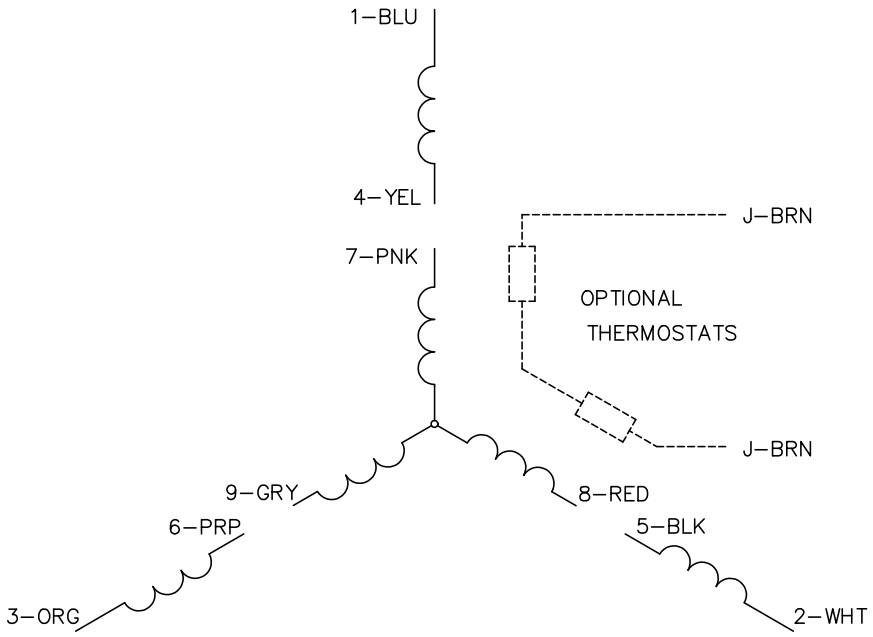
Typical performance - not guaranteed values.

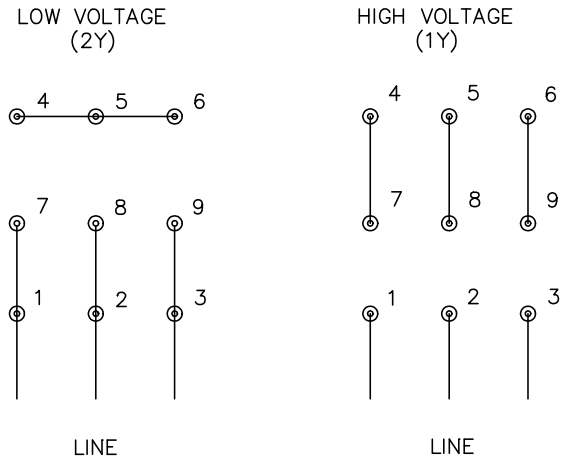
TORQUES(LB-FT): PO=76.7 PU=45.1 LR=57.2 LRA=109




36LYF317
614-623 = 15.17
624-634 = 16.54
635-646 =18.04
2.75
2.62
.25
.25 KEY
1.75 LONG
4.27
Ø8.60
Ø8.500
8.497
NAMEPLATE
1.1250
1.1245
8.85
FORSHEDA
SLINGER
(EA. END)
6 HOLES
.41 DIA.
4.50
.50
5.50
3.50
6.50
4 HOLES
3 W/PLUGS
(EA. END)
Ø7.86
6.92
4.48
45°
45°
2.43
8.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 NPT
3.75
3.75
5.76
4.31
8.63
APPLY RED SEALER
UNDER RETAINER SCREW
HEADS BEFORE INSTALLING
APPLY COAT OF RED
SEALER TO HOUSING
BEFORE PRESSING IN SEAL
6206
OPPOSITE END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: DEL HA2006A18, SHAFT WAS 36SH1334
REV: W
VERSION: 06
REVISED: 07:23:08 09/16/2024
TDR: 000001240137
MODEL NO. 36LYF317
REF: -
BY: USMAHAD
B
BALDOR - RELIANCE®
HOR 182-4TC TEFC 36M WD
36LYF317

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