ABB BALDOR RELIANCE

Customer information packet

EM7073T

7.5HP, 3490RPM, 3PH, 60HZ, 184T, 3640M, XPFC, F
Class - CLI GP D
Division - Division I

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11/21/2026 12:01:00 AM

Specifications

Enclosure	XPFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
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	UL
	CSA EEV
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
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.3 a

Part Detail

Revision	A
Type	AC
Mech. spec.	36N002
Base	
Status	PRD/A
Elec. spec.	36WGZ654
Layout	36LYN002
Eff. date	09-14-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-07-2025

Insulation Class	B
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3640M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.92 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0015XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	36N002Z654G1						
CAT.NO.	EM7073T						
HP	7.5	**T. CODE**	T2C				
VOLTS	230/460						
AMPS	17.6/8.8						
RPM	3490						
HZ	60	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	184T	**NEMA-NOM-EFF**	89.5				
		PF	86				
BLANK							

AC Induction Motor Performance Data
Record # 118143
Typical performance - not guaranteed values

Winding: 36WGZ654-R002	**Type:** 3640M	**Enclosure:** XPFC

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	**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
				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**
Power Factor	51	73	83	89	91	92
Efficiency	84.8	89.7	90.4	90	88.9	87.5
Speed	3571.6	3545.5	3517.7	3488.2	3456.6	3423.4
Line amperes	4.17	5.41	7.06	8.89	10.9	13

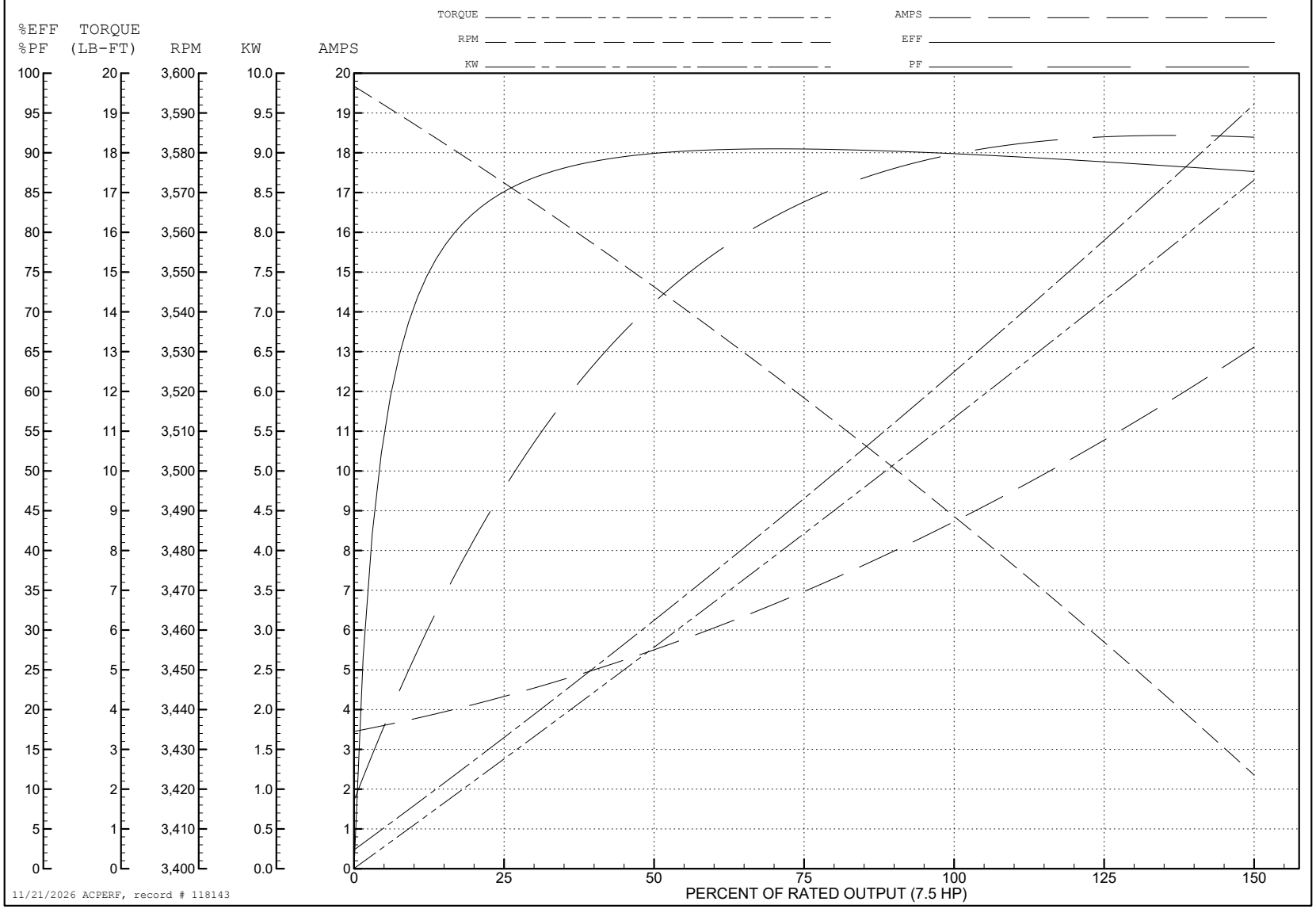
ABB Motors and Mechanical Inc.

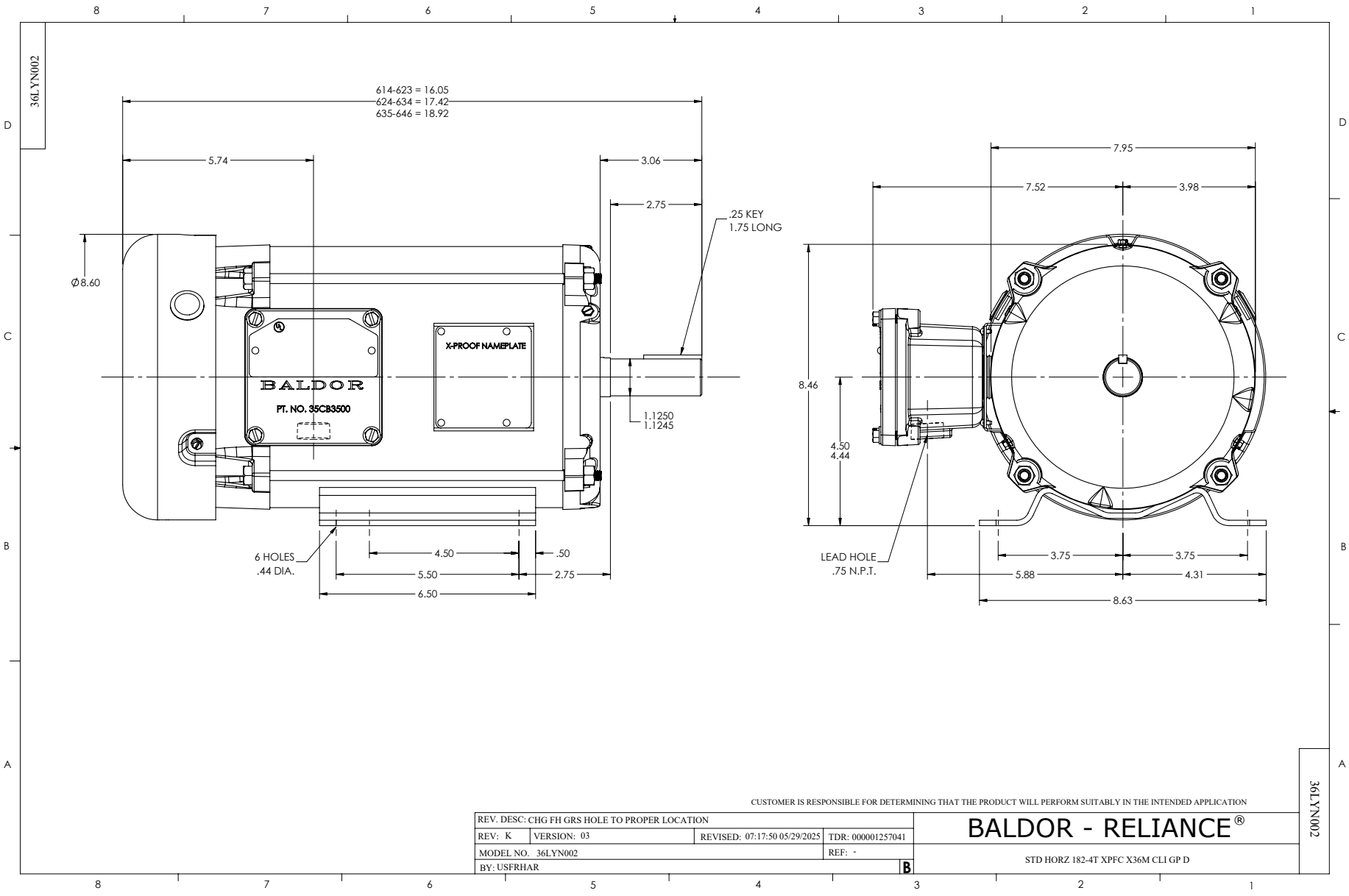
WINDING # 36WGZ654

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

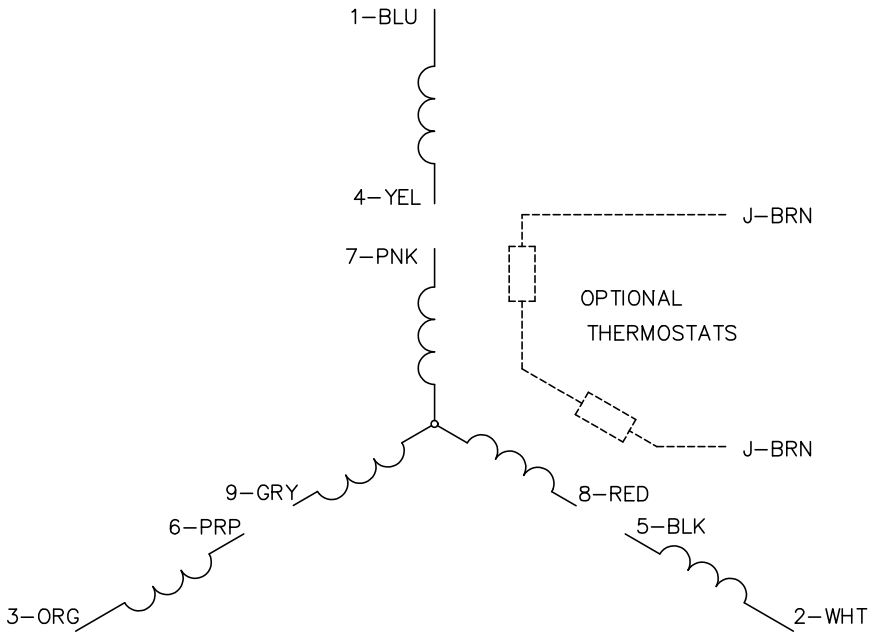
Typical performance - not guaranteed values.

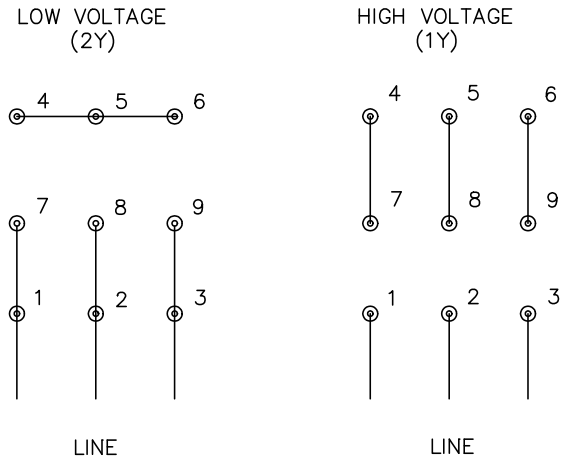
TORQUES(LB-FT): PO=76.7 PU=45.1 LR=57.2 LRA=109




36LYN002
614-623 = 16.05
624-634 = 17.42
635-646 = 18.92
5.74
3.06
2.75
.25 KEY
1.75 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
1.1250
1.1245
6 HOLES
.44 DIA.
4.50
.50
5.50
2.75
6.50
7.95
7.52
3.98
8.46
4.50
4.44
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.88
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG FH GRS HOLE TO PROPER LOCATION
REV: K
VERSION: 03
REVISED: 07:17:50 05/29/2025
TDR: 000001257041
MODEL NO. 36LYN002
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
STD HORZ 182-4T XPFC X36M CLI GP D
36LYN002

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