

ABB BALDOR RELIANCE III

Customer information packet

CEM7073T

7.5HP, 3490RPM, 3PH, 60HZ, 184TC, 3640M, XPFC

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
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.	36N018
Base	
Status	PRD/A
Elec. spec.	36WGZ654
Layout	36LYN018
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	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	20.36 IN
Power Factor	86
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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.	36N018Z654								
CAT.NO.	CEM7073T								
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	184TC	NEMA-NOM-EFF	89.5						
		PF	86						
BLANK									

AC Induction Motor Performance Data

Record # 115765

Typical performance - not guaranteed values

Winding: 36WGZ654-R001			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		208-230/460	Start Configuration		direct on line		
Full Load Amps		25-22.6/11.3	Breakdown Torque		76.7 LB-FT		
R.P.M.		3488	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. @ 25°C	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

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

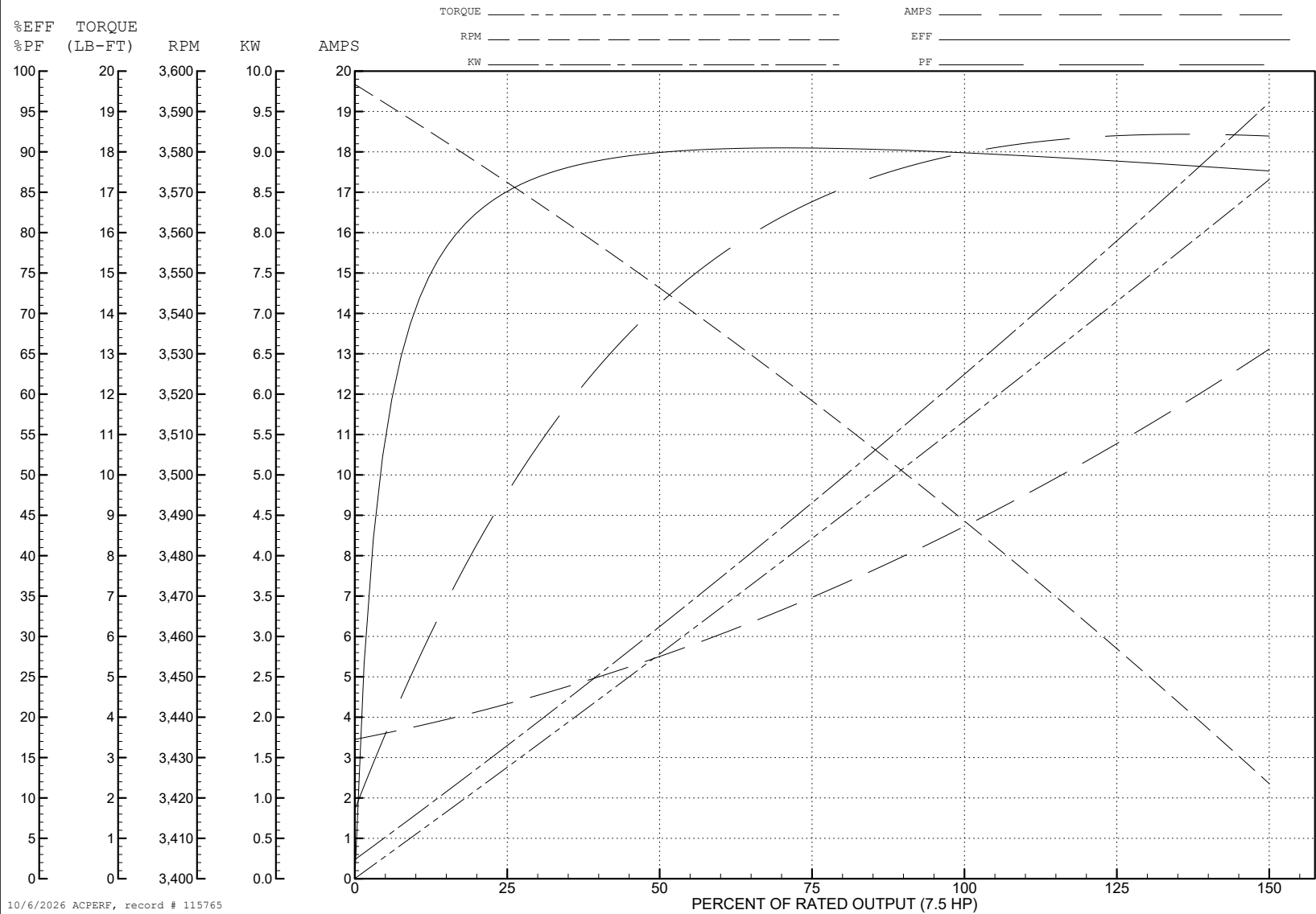
ABB Motors and Mechanical Inc.

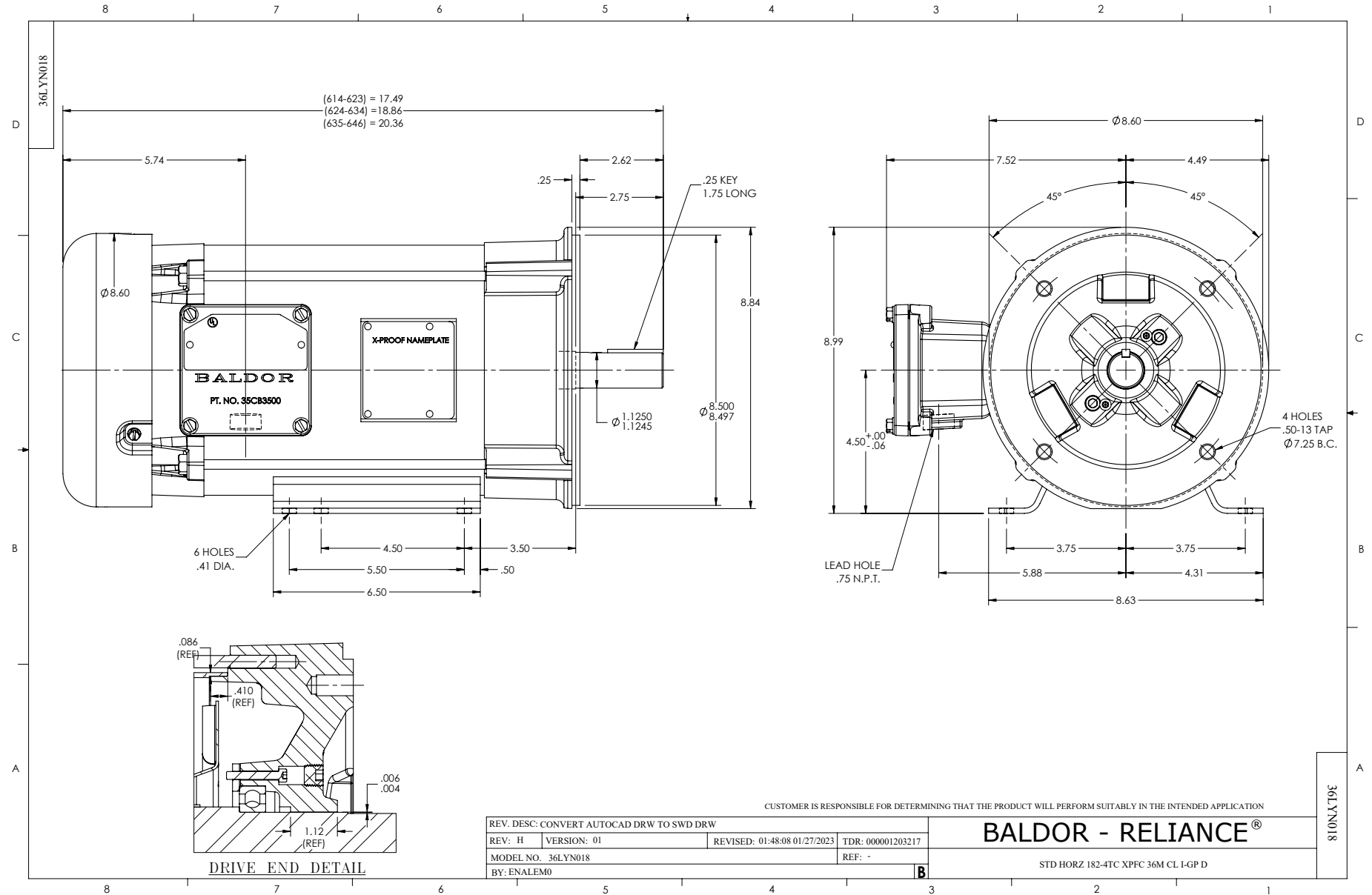
WINDING # 36WGZ654

Typical performance - not guaranteed values.

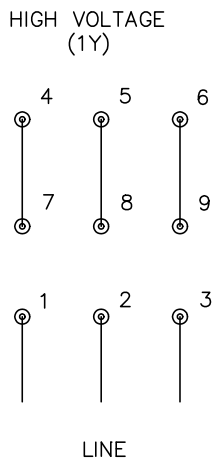
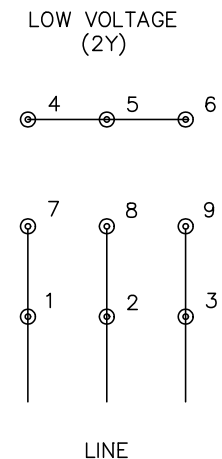
7.5 HP 3 PH 60 HZ 3488 RPM 460 V 3640M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005