ABB BALDOR RELIANCE

Customer information packet

CEM7075T

3HP, 3450RPM, 3PH, 60HZ, 145TC, 3532M, XPFC, F1
Class - CLI GP D
Division - Division I

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11/25/2026 10:30:05 AM

Specifications

Enclosure	XPFC
Frame	145TC
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	3.000 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
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	3.600 A @ 460.0 V
	7.200 A @ 230.0 V
	7.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	U
Type	AC
Mech. spec.	35J610
Base	
Status	PRD/A
Elec. spec.	35WGQ060
Layout	35LYJ610
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-11-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.10 IN
Power Factor	92
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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.	35J610Q060G1						
CAT.NO.	CEM7075T						
HP	3	**T. CODE**	T3C				
VOLTS	230/460						
AMPS	7.2/3.6						
RPM	3450						
HZ	60	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	143TC	**NEMA-NOM-EFF**	86.5				
		PF	92				
BLANK							

AC Induction Motor Performance Data
Record # 35668
Typical performance - not guaranteed values

Winding: 35WGQ060-R003	**Type:** 3532M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.2/3.6	**Breakdown Torque**	18 LB-FT
R.P.M.			3450	**Pull-up Torque**	11 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	33 A
Service Factor (S.F.)			1	**No-load Current**	1.2 A
NEMA Nom. Eff.	86.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	4.72 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	57	77	85	88	89	90
Efficiency	84.1	87.9	88.4	87.2	85.7	83.5
Speed	3562	3531	3498	3462	3421	3375
Line amperes	1.5	2.1	2.8	3.6	4.5	5.4

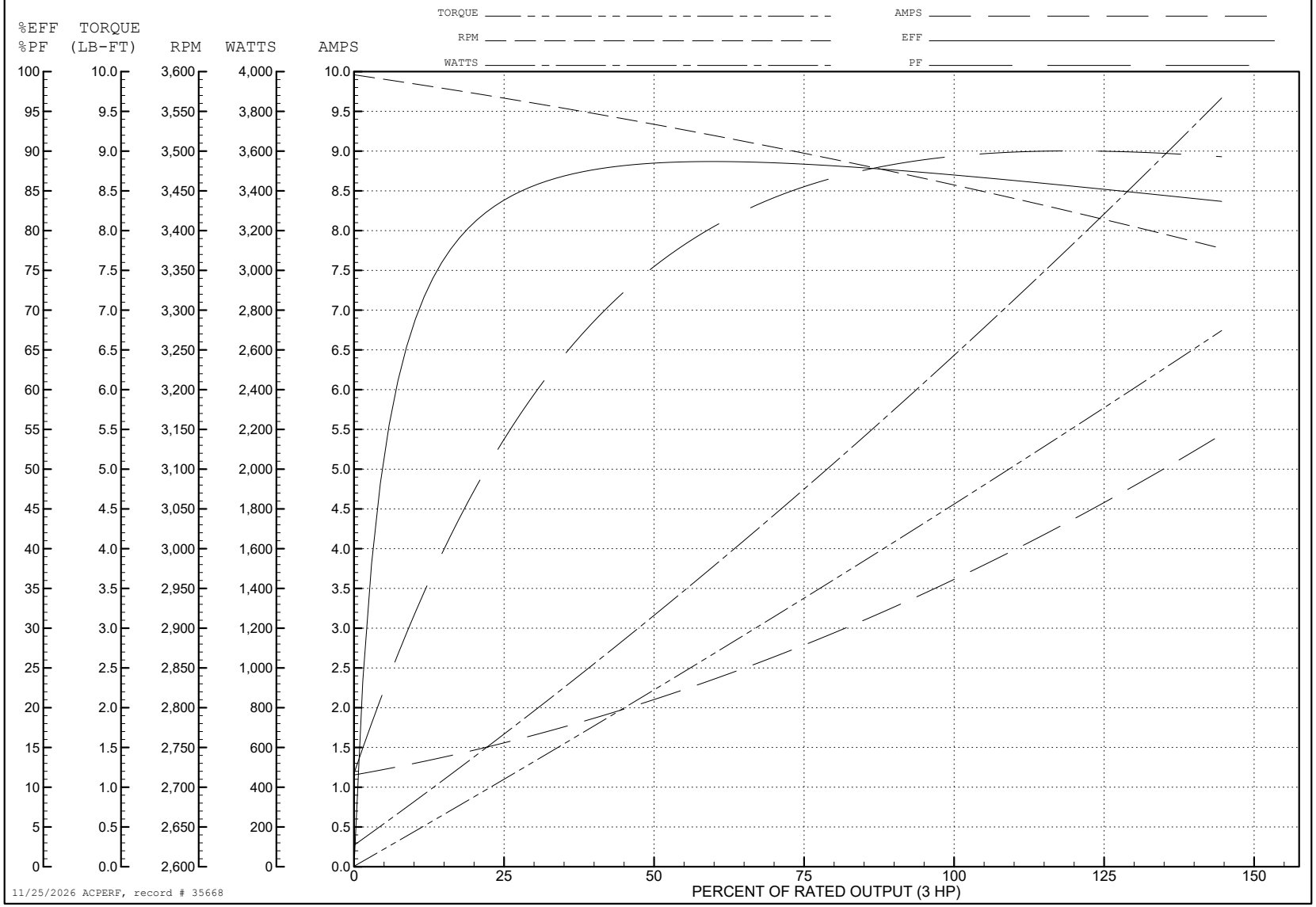
ABB Motors and Mechanical Inc.

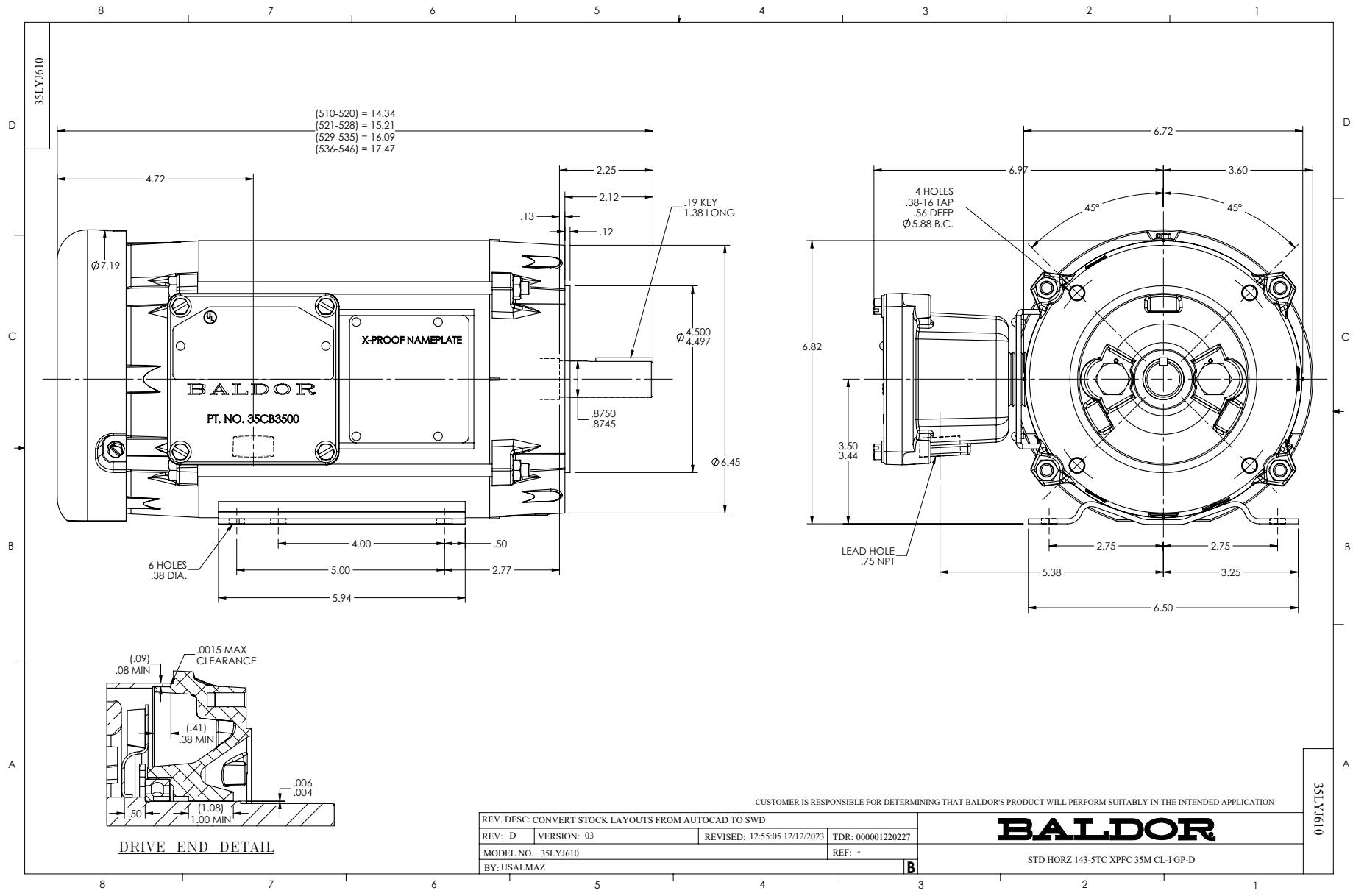
WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

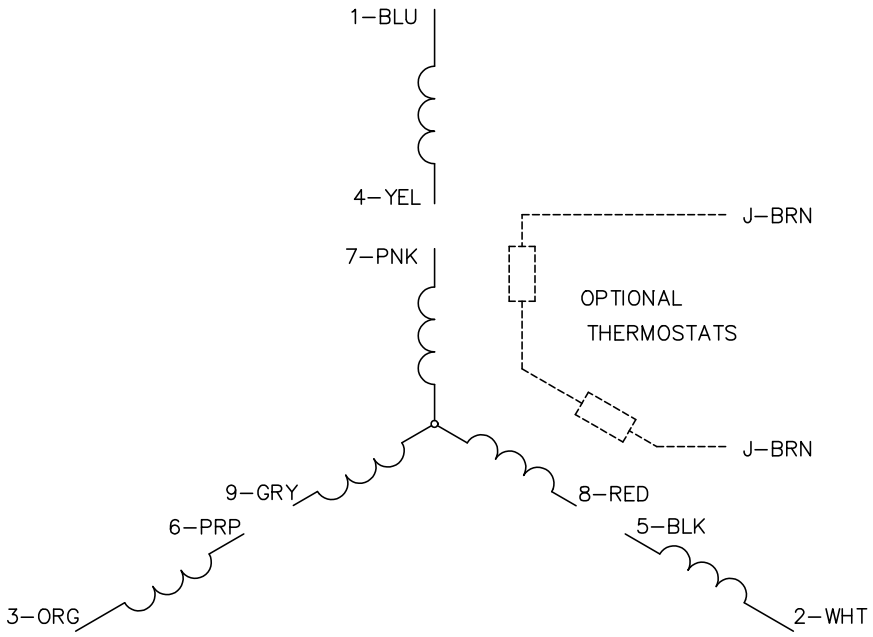
Typical performance - not guaranteed values.

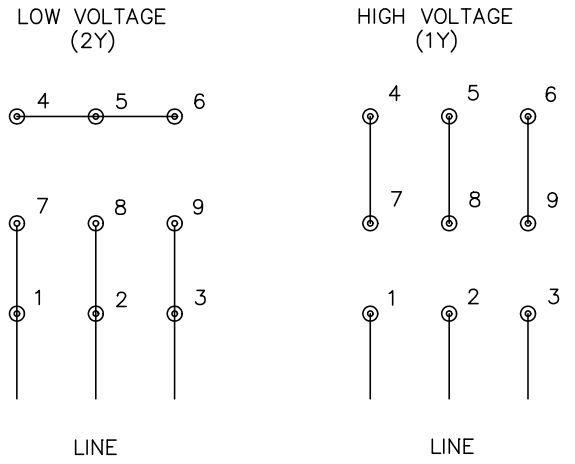
TORQUES(LB-FT): PO=18 PU=11 LR=16 LRA=33




35LYJ610
(510-520) = 14.34
(521-528) = 15.21
(529-535) = 16.09
(536-546) = 17.47
4.72
2.25
2.12
.13
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
.8750
.8745
Ø6.45
6 HOLES
.38 DIA.
4.00
.50
5.00
2.77
5.94
6.72
6.97
3.60
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
45°
45°
6.82
3.50
3.44
LEAD HOLE
.75 NPT
2.75
2.75
5.38
3.25
6.50
(.09)
.08 MIN
.0015 MAX
CLEARANCE
(.41)
.38 MIN
.006
.004
.50
(1.08)
1.00 MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: D
VERSION: 03
REVISED: 12:55:05 12/12/2023
TDR: 000001220227
MODEL NO. 35LYJ610
REF: -
BY: USALMAZ
B
BALDOR
STD HORZ 143-5TC XPFC 35M CL-I GP-D
35LYJ610

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