Customer information packet

CBM7010

.75HP, 1750RPM, 3PH, 60HZ, 56C, 3514M, XPNV, F1
Class - CLI GP D
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 4:39:59 AM

Specifications

Enclosure	XPNV
Frame	56C
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	.750 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	CSA
	UL
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	1.140 A @ 460.0 V
	2.280 A @ 230.0 V
	2.400 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T2C
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	35E713
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYE713
Eff. date	04-02-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

High Voltage Full Load Amps	1.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.13 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP0015XPSL							
NO.			**CC**				
SER. #							
SPEC	35E713G069G1						
CAT.NO.							
H.P.	.75		**T. CODE**		T2C		
VOLTS	230/460						
AMPS	2.4/1.2						
R.P.M.	1765						
HZ	60	**PH**	3	**CLASS**	F		
SER.F.	1.00	**DES**	B	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	56C			**NEMA NOM. EFF**	82.5		
		PF	74				
BLANK	SFA 2.68/1.34						

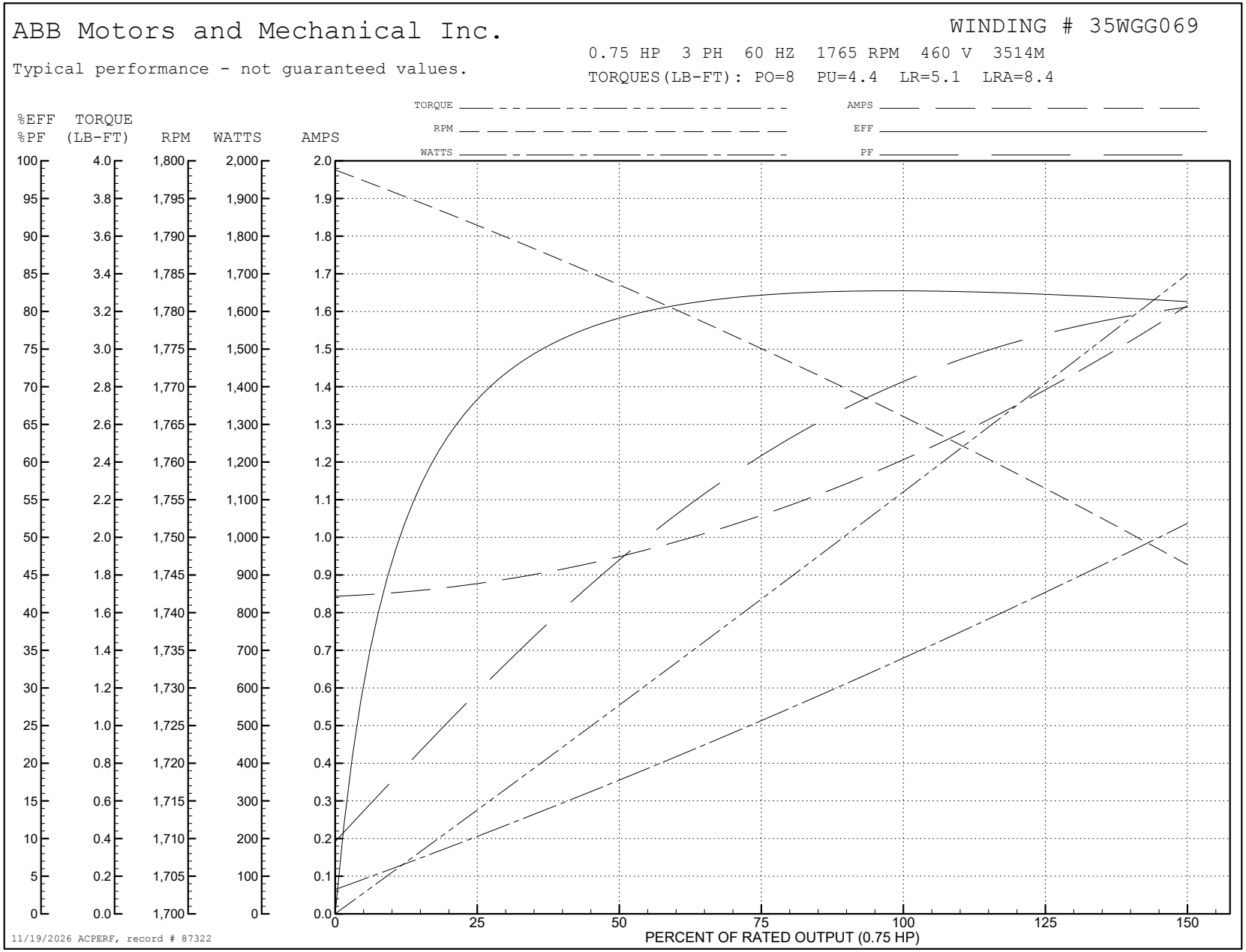
AC Induction Motor Performance Data
Record # 87322
Typical performance - not guaranteed values

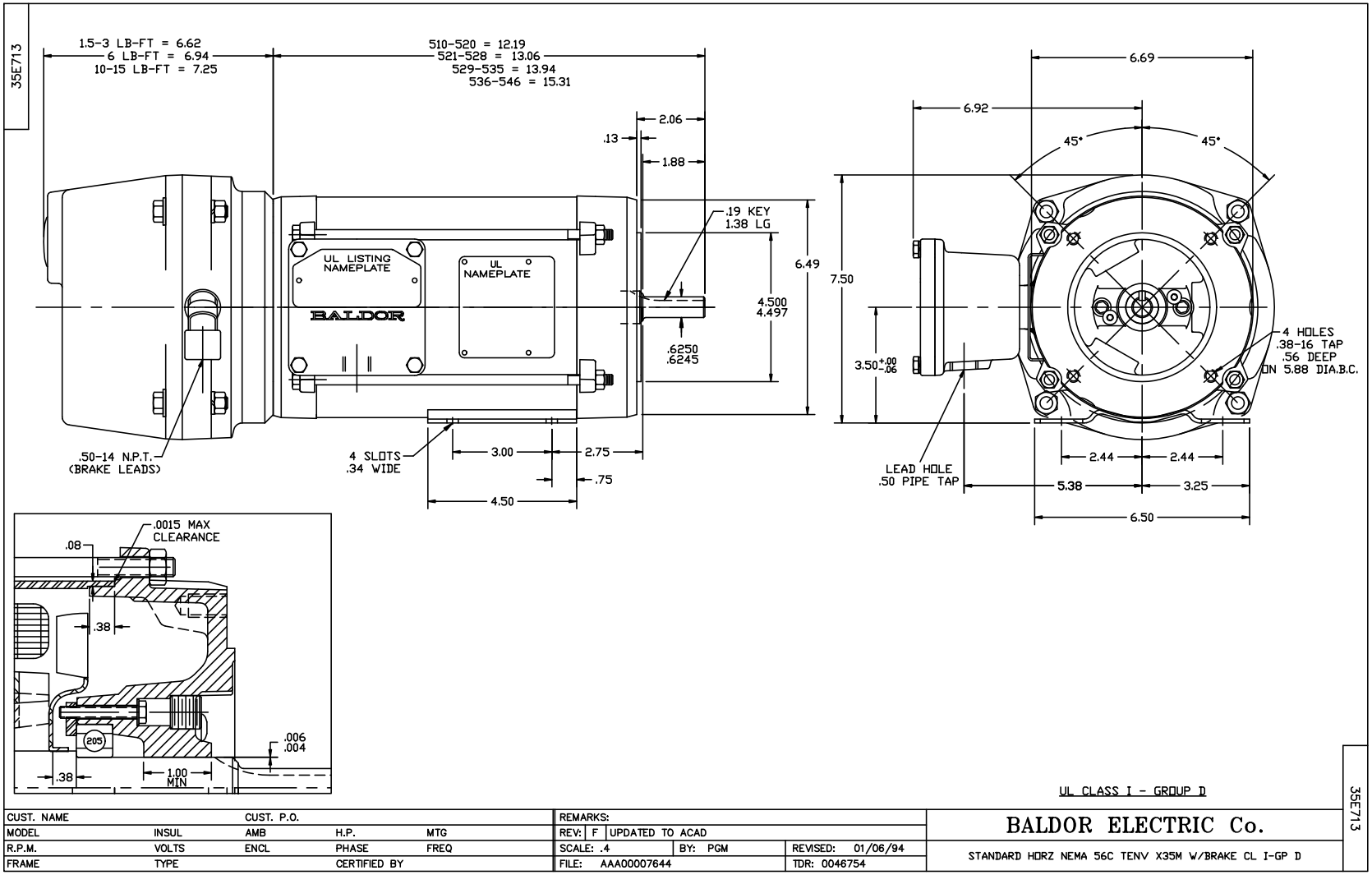
Winding: 35WGG069-R009	**Type:** 3514M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.24 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.42/2.42	**Breakdown Torque**	8 LB-FT
R.P.M.			1765	**Pull-up Torque**	4.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	8.4 A
Service Factor (S.F.)			1.25	**No-load Current**	0.85 A
NEMA Nom. Eff.	82.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	30.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps			2.8/1.4	**Temp. Rise @ S.F. Load**	94°C
				Locked-rotor Power Factor	66.8
				Rotor inertia	0.101 lb-ft²

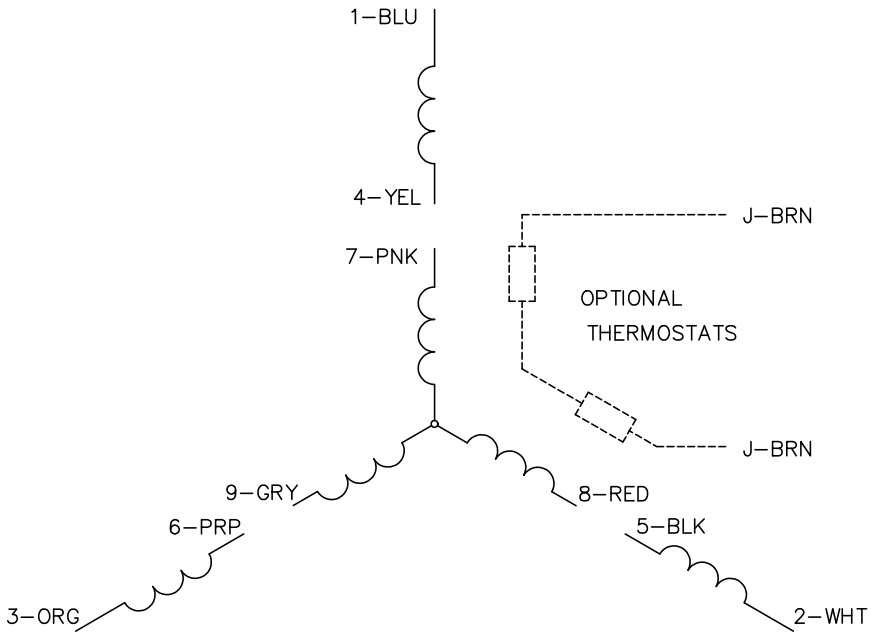
Load Characteristics 460 V, 60 Hz, 0.75 HP

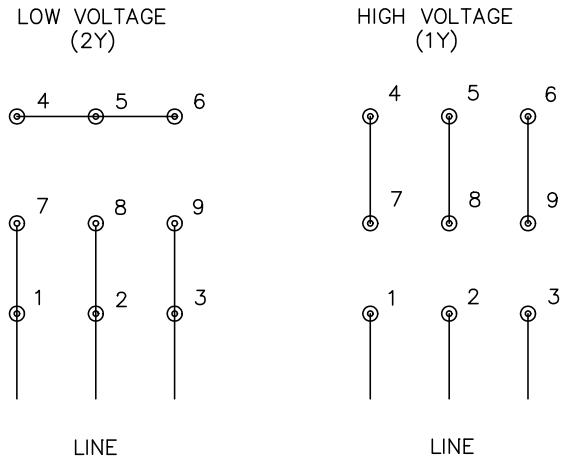
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	61	70	77	81	80
Efficiency	68.4	79	82.2	82.9	82.4	81.2	82.8
Speed	1791	1783	1775	1766	1757	1746	1752
Line amperes	0.87	0.95	1.06	1.21	1.4	1.61	1.34


ABB Motors and Mechanical Inc.
WINDING # 35WGG069
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/19/2026 ACPERF, record # 87322


35E713
1.5-3 LB-FT = 6.62
6 LB-FT = 6.94
10-15 LB-FT = 7.25
510-520 = 12.19
521-528 = 13.06
529-535 = 13.94
536-546 = 15.31
2.06
.13
1.88
.19 KEY
1.38 LG
6.49
4.500
4.497
.6250
.6245
UL LISTING NAMEPLATE
UL NAMEPLATE
BALDOR
.50-14 N.P.T.
(BRAKE LEADS)
4 SLOTS
.34 WIDE
3.00
2.75
.75
4.50
6.69
6.92
45°
45°
7.50
3.50 +.00 -.06
4 HOLES
.38-16 TAP
.56 DEEP
ON 5.88 DIA.B.C.
LEAD HOLE
.50 PIPE TAP
2.44
2.44
5.38
3.25
6.50
.0015 MAX
CLEARANCE
.08
.38
205
.006
.004
.38
1.00
MIN
UL CLASS I - GROUP D
35E713
CUST. NAME
CUST. P.O.
MODEL
INSUL
AMB
H.P.
MTG
R.P.M.
VOLTS
ENCL
PHASE
FREQ
FRAME
TYPE
CERTIFIED BY
REMARKS:
REV: F UPDATED TO ACAD
SCALE: .4
BY: PGM
REVISED: 01/06/94
FILE: AAA00007644
TDR: 0046754
BALDOR ELECTRIC Co.
STANDARD HORZ NEMA 56C TENV X35M W/BRAKE CL I-GP D

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