ABB BALDOR RELIANCE

Customer information packet

CBM7006

.5HP, 1740 75C RISERPM, 3PH, 60HZ, 56C, 3512M
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/8/2026 11:33:26 AM

Specifications

Enclosure	XPNV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	1.900 A @ 208.0 V
	1.800 A @ 230.0 V
	.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	E
Type	AC
Mech. spec.	35U641
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYU641
Eff. date	03-12-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
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	X3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.44 IN
Power Factor	65
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	35U641G155G1						
CAT.NO.							
HP	.5	**T. CODE**	T3C				
VOLTS	208-230/460						
AMPS	1.9-1.8/.9						
RPM	1770						
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.15	**DES**	B	**CODE**	M		
RATING	40C AMB-CONT						
FRAME	56C			**NEMA-NOM-EFF**	78.2		
		PF	62				
BLANK	SFA 2.1-1.9/0.95						

AC Induction Motor Performance Data
Record # 82216
Typical performance - not guaranteed values

Winding: 35WGG155-R010	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			.5
Volts			208-230/460
Full Load Amps			1.9-1.8/.9
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	80	**Power Factor**	65
Rating - Duty			40C AMB-CONT
S.F. Amps			2.1-1.9/0.95

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.49 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.28 LB-FT
Pull-up Torque	3.26 LB-FT
Locked-rotor Torque	4.04 LB-FT
Starting Current	6.71 A
No-load Current	0.792 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	58°C
Temp. Rise @ S.F. Load	64°C
Locked-rotor Power Factor	70.8
Rotor inertia	0.0866 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	41	52	62	69	75	66
Efficiency	56.5	70.7	76.5	78.9	80	80	79.6
Speed	1792	1786	1779	1771	1763	1755	1766
Line amperes	0.795	0.827	0.889	0.966	1.06	1.18	1.02

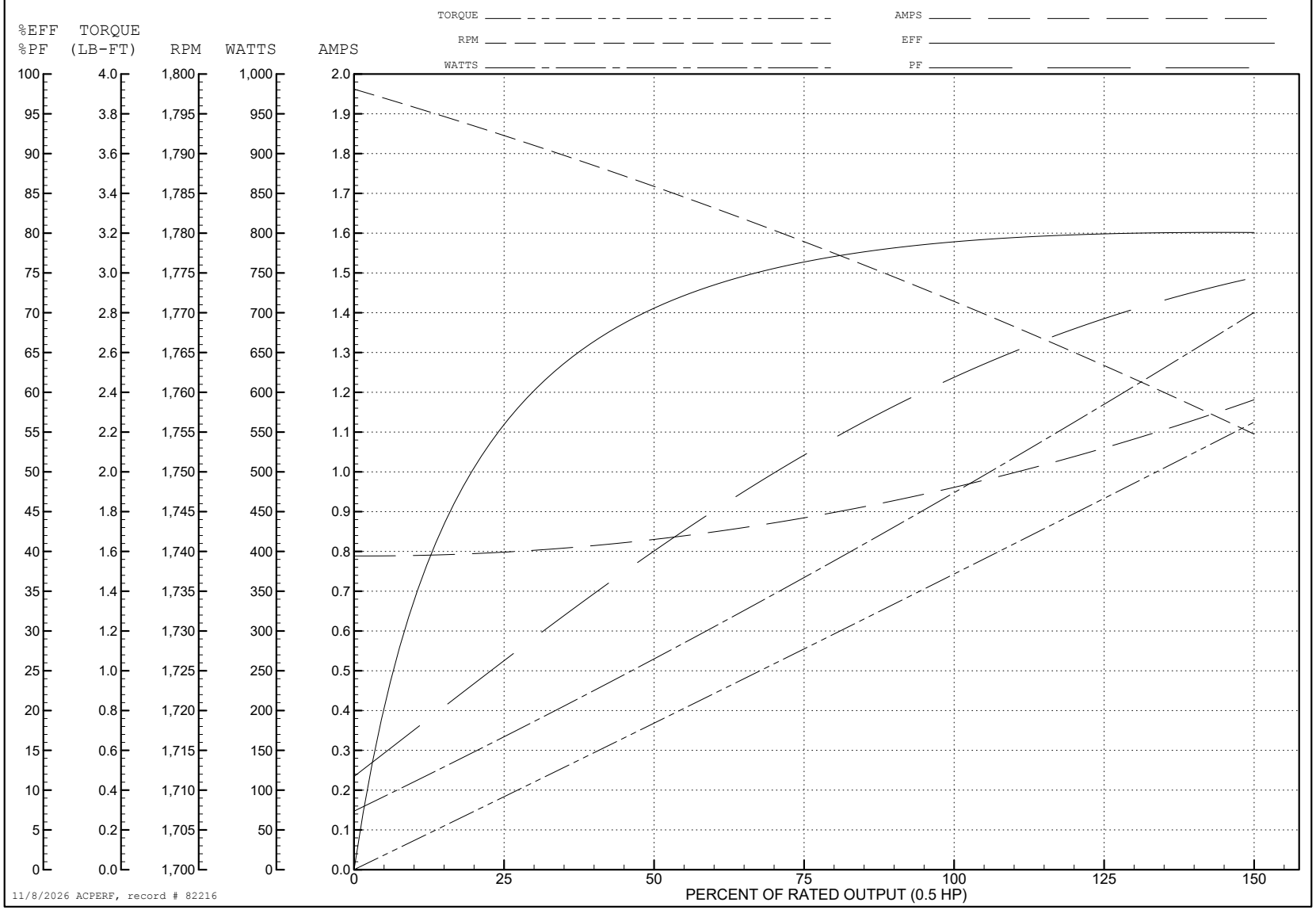
ABB Motors and Mechanical Inc.

WINDING # 35WGG155

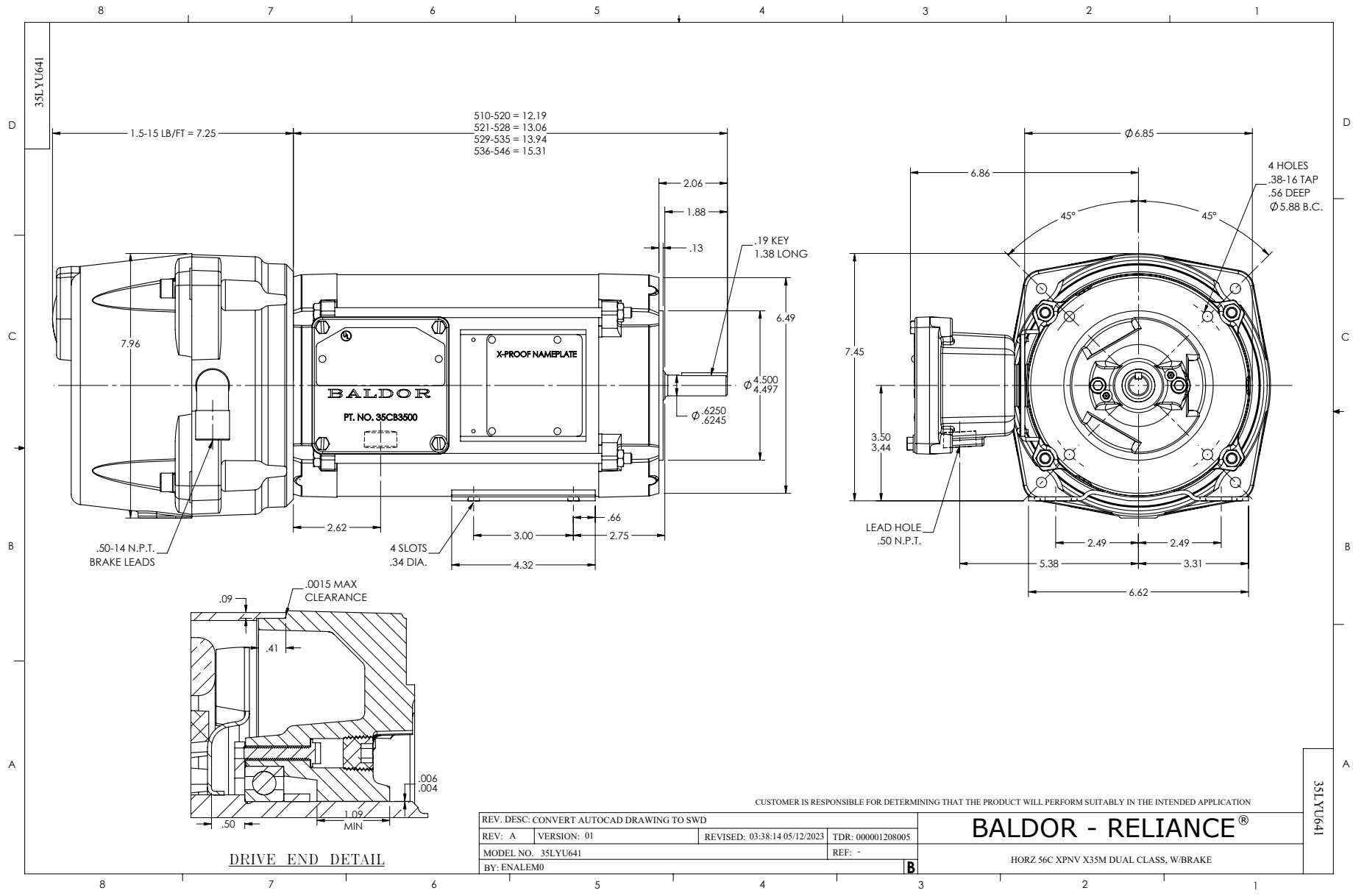
0.5 HP 3 PH 60 HZ 1770 RPM 460 V 3512M

TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71

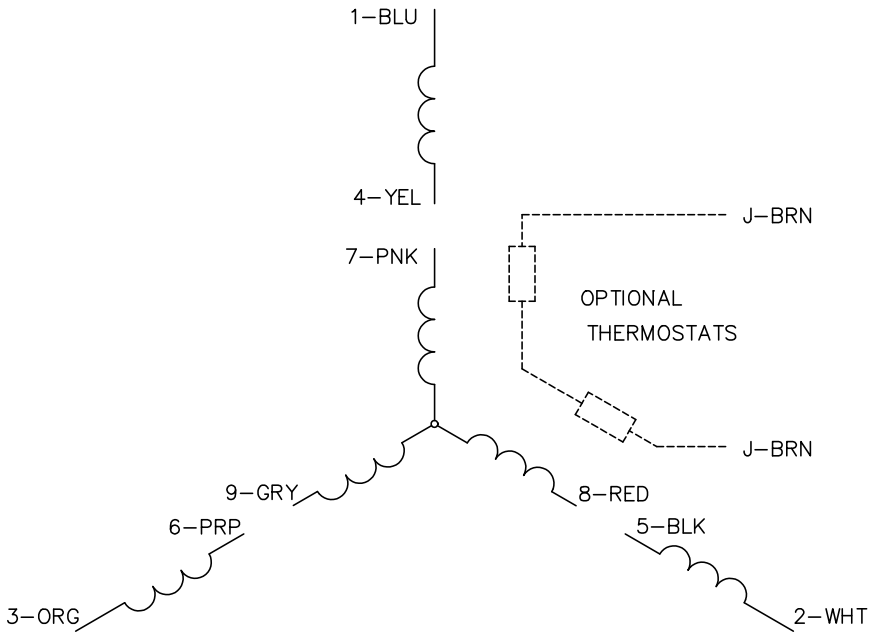
Typical performance - not guaranteed values.

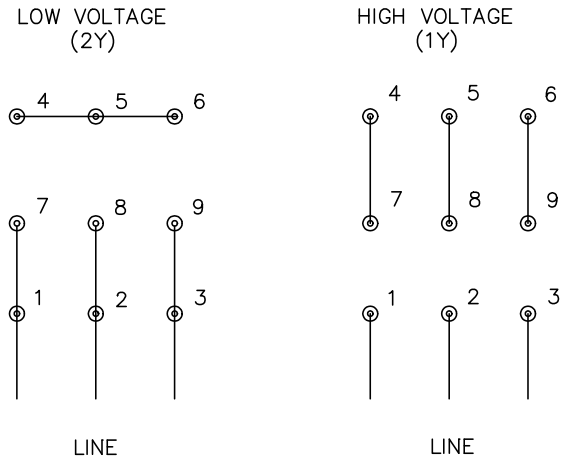


11/8/2026 ACPERF, record # 82216


35LYU641
1.5-15 LB/FT = 7.25
510-520 = 12.19
521-528 = 13.06
529-535 = 13.94
536-546 = 15.31
2.06
1.88
.13
.19 KEY
1.38 LONG
6.49
7.96
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
2.62
.66
3.00
2.75
4.32
.50-14 N.P.T.
BRAKE LEADS
4 SLOTS
.34 DIA.
Ø6.85
6.86
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
45°
45°
7.45
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.38
3.31
6.62
.09
.0015 MAX
CLEARANCE
.41
.006
.004
.50
1.09
MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: A
VERSION: 01
REVISED: 03:38:14 05/12/2023
TDR: 000001208005
MODEL NO. 35LYU641
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPNV X35M DUAL CLASS, W/BRAKE
35LYU641

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