ABB BALDOR RELIANCE

Customer information packet

JXM051522

1.5//1HP, 3500//2900RPM, 3PH, 60//50HZ, 56J
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/17/2026 1:42:26 AM

Specifications

Enclosure	XPFC
Frame	56J
Frame Material	Steel
Frequency	50.00 Hz
	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	1.500 HP @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.700 A @ 380.0 V
	1.900 A @ 460.0 V
	3.400 A @ 190.0 V
	3.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE384
Eff. date	04-26-2022
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-31-2021

Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.79 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	35-0000-1082			**INV.TYPE**	PWM						
CAT.NO.	JXM051522			**C HP FR**	60	**C HP TO**	90				
HP	1.5//1			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	3.8/1.9//3.4/1.7			**MAG CUR**	1.8/.9						
RPM	3500//2900			**MX RPM**	5400						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	84				
SER.F.	1.00	**DES**	B	**SL HZ**	1.7	**WK2**	0.06				
FRAME	56J	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 73829
Typical performance - not guaranteed values

Winding: 35WGM760-R091	**Type:** 3520M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage, High Speed Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	2.23 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.8/1.9//3.4/1.7	**Breakdown Torque**	9.38 LB-FT
R.P.M.			3500//2900	**Pull-up Torque**	3.61 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	7.35 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	17.9 A
Service Factor (S.F.)			1	**No-load Current**	0.951 A
NEMA Nom. Eff.	84	**Power Factor**	85	**Line-line Res. @ 25ºC**	12.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
				Locked-rotor Power Factor	60.1
				Rotor inertia	0.0553 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	50	70	81	87	90	91
Efficiency	61.4	74.1	78.3	80	80.3	79.3
Speed	3569	3545	3519	3491	3459	3425
Line amperes	1.08	1.32	1.63	2	2.41	2.9

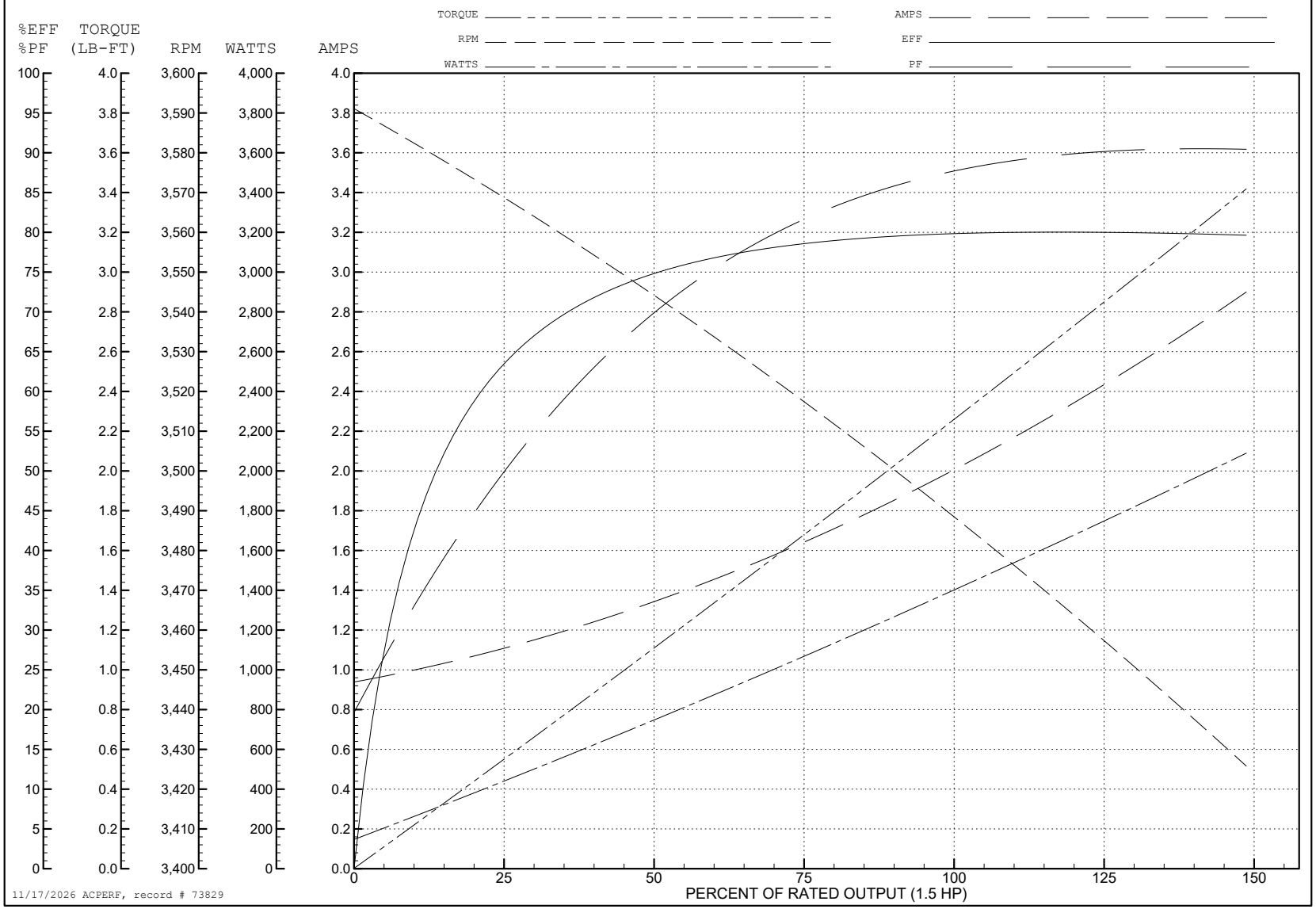
ABB Motors and Mechanical Inc.

WINDING # 35WGM760

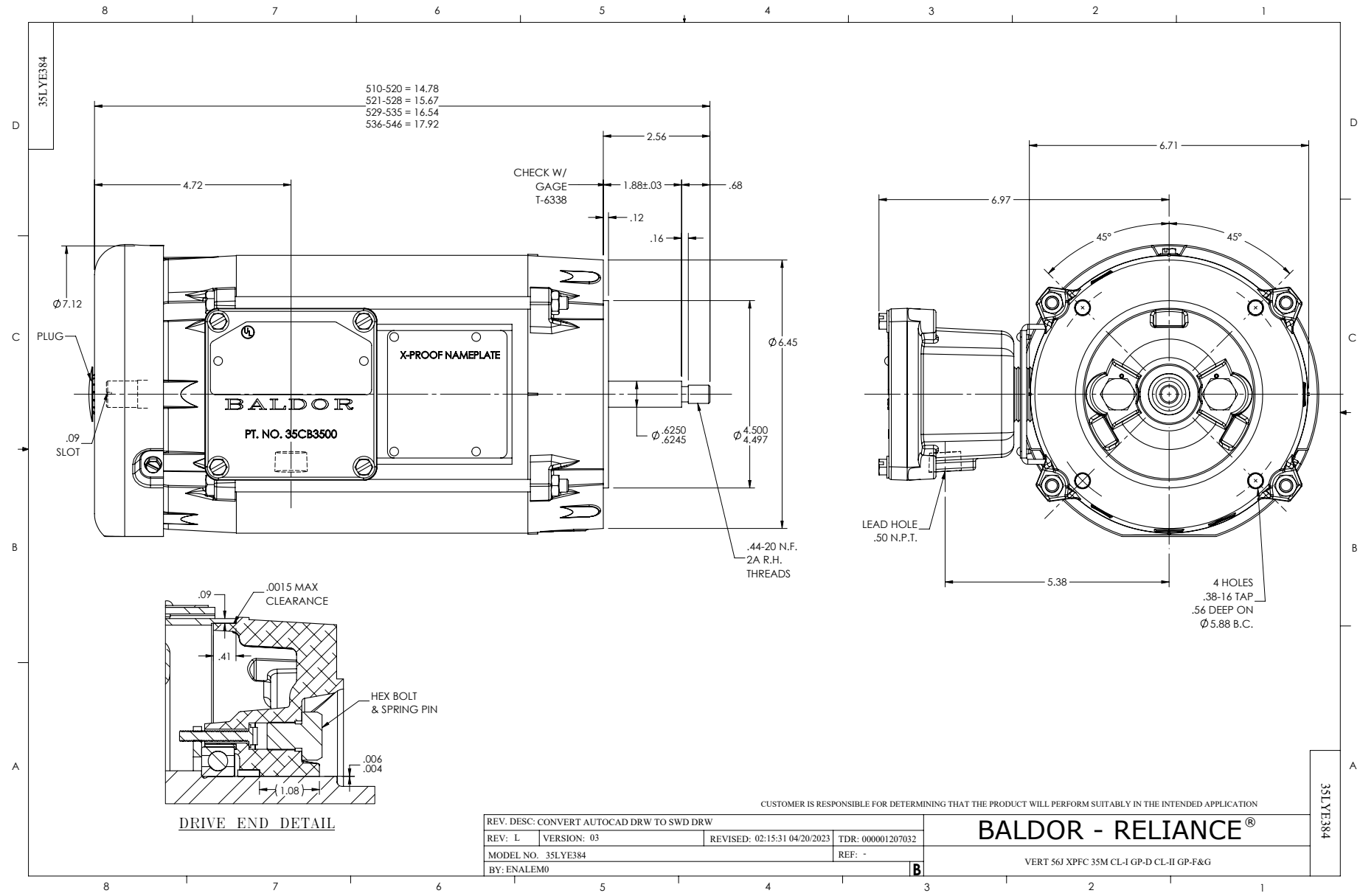
1.5 HP 3 PH 60 HZ 3491 RPM 460 V 3520M

Typical performance - not guaranteed values.

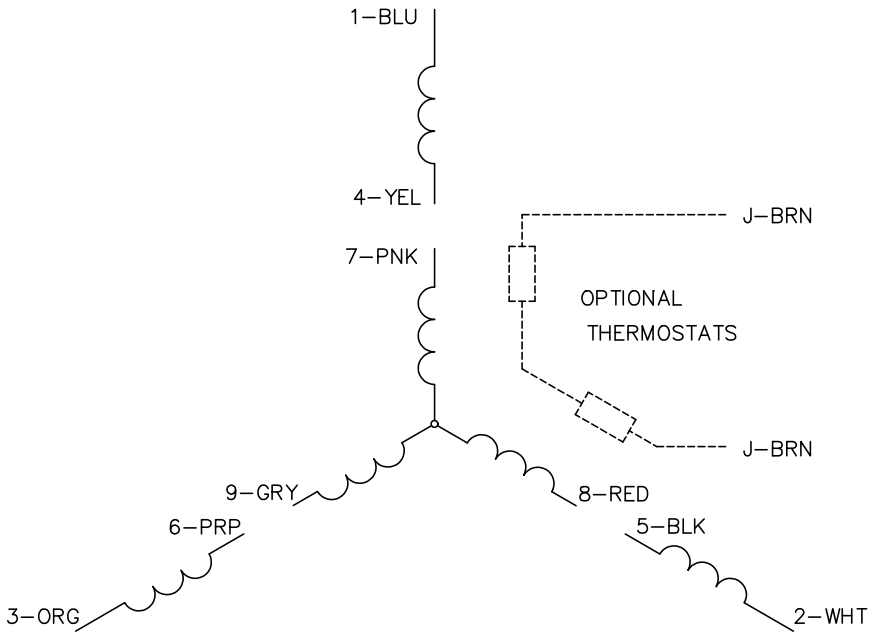
TORQUES(LB-FT): PO=9.38 PU=3.61 LR=7.35 LRA=17.9

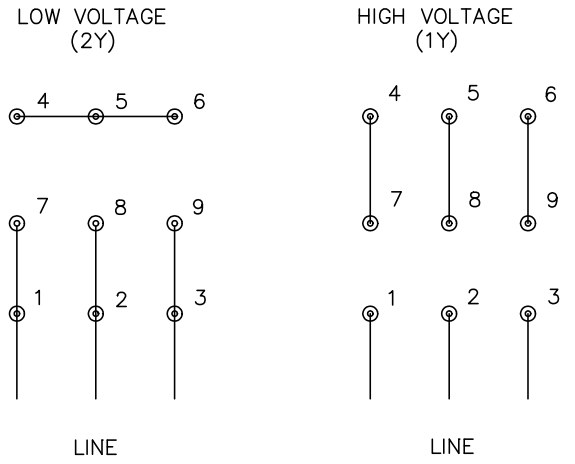


11/17/2026 ACPERF, record # 73829


35LYE384
510-520 = 14.78
521-528 = 15.67
529-535 = 16.54
536-546 = 17.92
2.56
4.72
CHECK W/
GAGE
T-6338
1.88±.03
.68
.12
.16
Ø7.12
PLUG
.09
SLOT
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø .6250
.6245
Ø 4.500
4.497
.44-20 N.F.
2A R.H.
THREADS
6.71
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.38
4 HOLES
.38-16 TAP
.56 DEEP ON
Ø5.88 B.C.
.09
.0015 MAX
CLEARANCE
.41
HEX BOLT
& SPRING PIN
.006
.004
1.08
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: L
VERSION: 03
REVISED: 02:15:31 04/20/2023
TDR: 000001207032
MODEL NO. 35LYE384
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 56J XPFC 35M CL-I GP-D CL-II GP-F&G
35LYE384

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