ABB BALDOR RELIANCE

Customer information packet

EM7018T

1.5//1HP, 3500//2900RPM, 3PH, 60//50HZ, 143T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	143T
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
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	1.700 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
Efficiency @ 100% Load	84.0 %

Part Detail

Revision	U
Type	AC
Mech. spec.	35E362
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE362
Eff. date	06-04-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-11-2010

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.36 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	2900 rpm

	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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	35E362M760G1						
CAT.NO.	EM7018T						
HP	1.5//1	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	3.8/1.9//3.4/1.7						
RPM	3500//2900						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	B	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	143T	**NEMA-NOM-EFF**	84				
		PF	85				
BLANK							

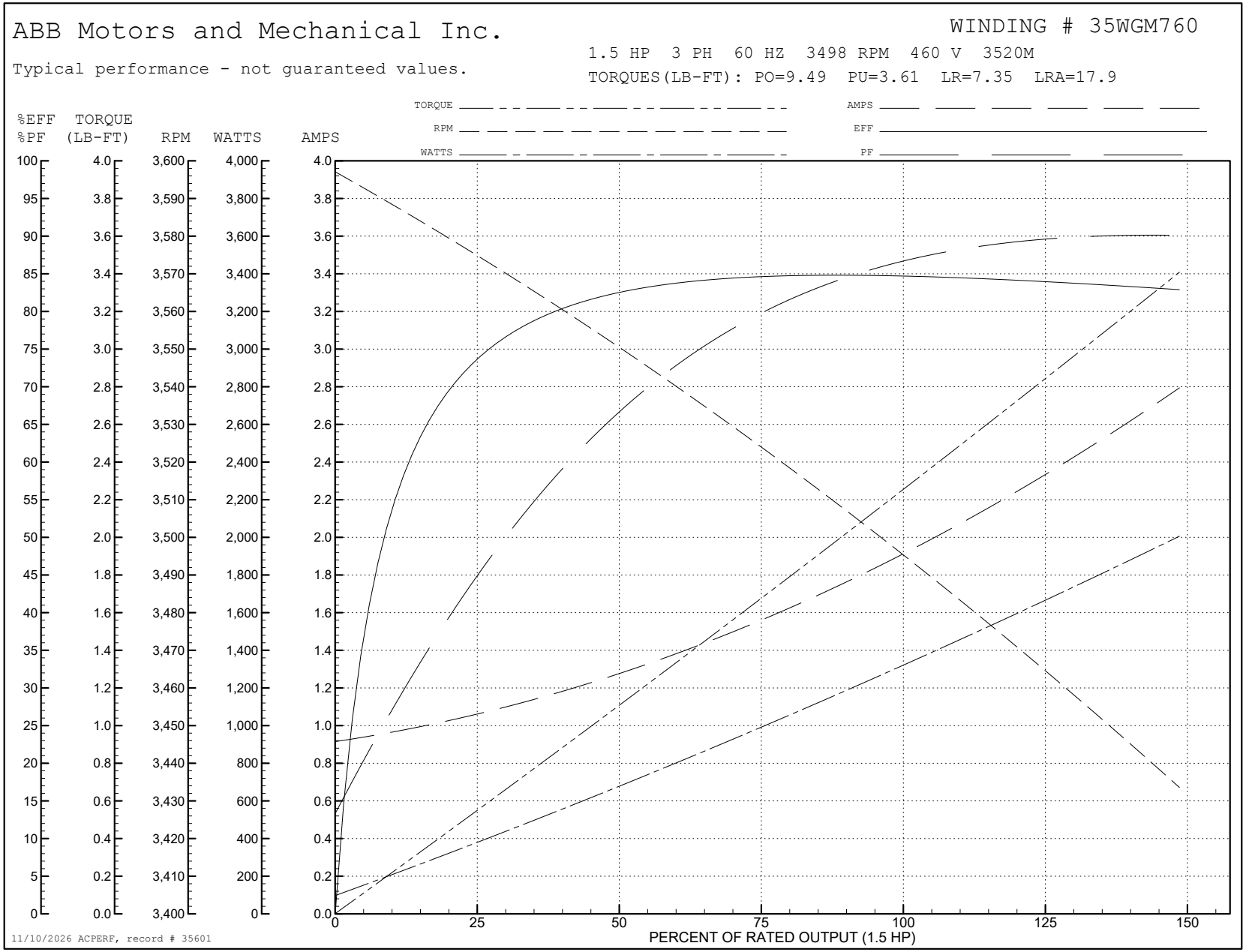
AC Induction Motor Performance Data
Record # 35601
Typical performance - not guaranteed values

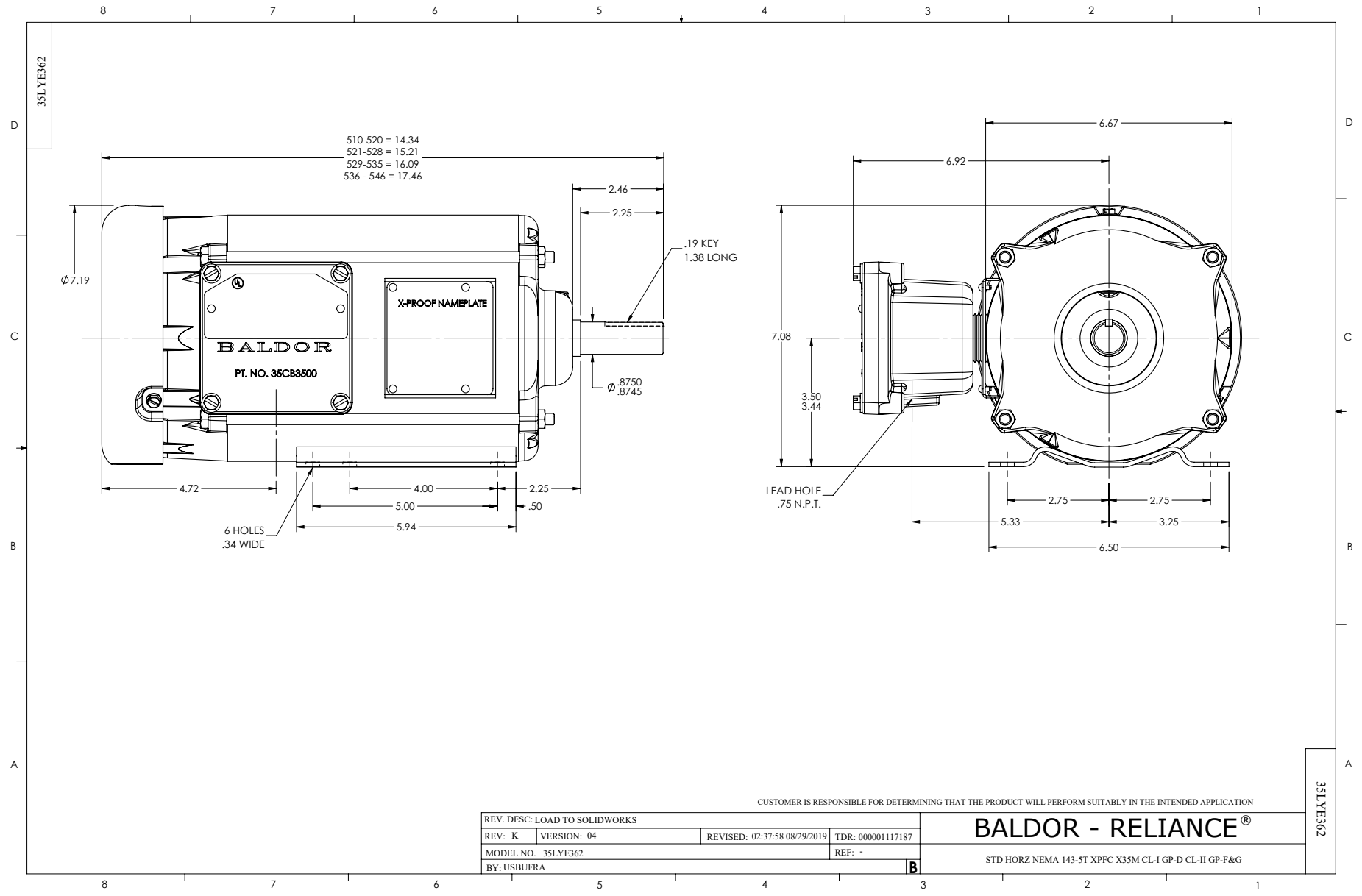
Winding: 35WGM760-R002	**Type:** 3520M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5//1	**Full Load Torque**	2.22 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**	9.49 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**	0.932 A
NEMA Nom. Eff.	84	**Power Factor**	85	**Line-line Res. @ 25ºC**	12.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps				**Temp. Rise @ S.F. Load**	50°C
				Locked-rotor Power Factor	60
				Rotor inertia	0.0553 LB-FT2

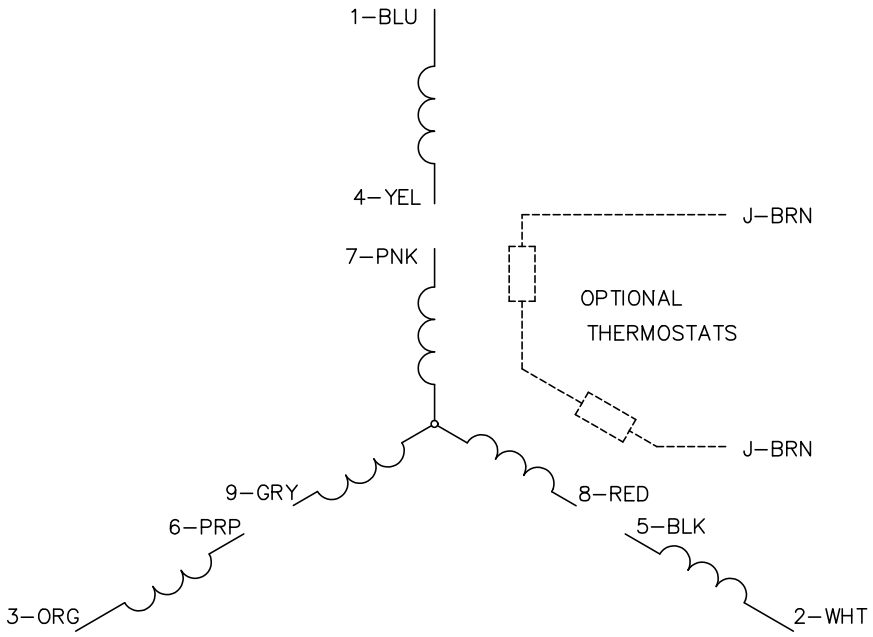
Load Characteristics 460 V, 60 Hz, 1.5 HP

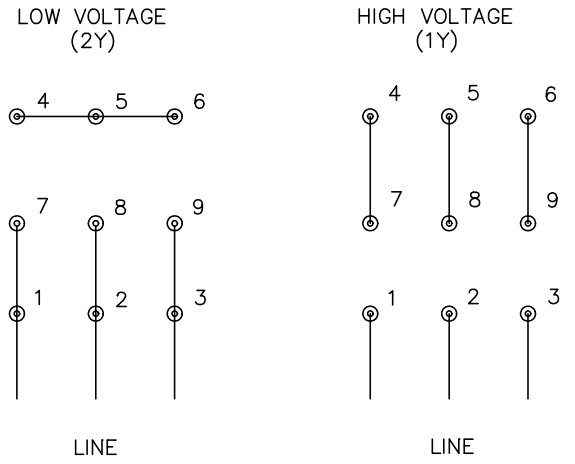
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	67	79	85	89	90
Efficiency	72.3	82.2	84.4	84.8	84.3	82.8
Speed	3575	3551	3526	3498	3466	3433
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79


ABB Motors and Mechanical Inc.
WINDING # 35WGM760
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 3498 RPM 460 V 3520M
TORQUES(LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/10/2026 ACPERF, record # 35601


35LYE362
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536 - 546 = 17.46
2.46
2.25
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
.8745
4.72
4.00
2.25
5.00
.50
5.94
6 HOLES
.34 WIDE
6.67
6.92
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.33
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: K
VERSION: 04
REVISED: 02:37:58 08/29/2019
TDR: 000001117187
MODEL NO. 35LYE362
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ NEMA 143-5T XPFC X35M CL-I GP-D CL-II GP-F&G
35LYE362

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