

ABB BALDOR RELIANCE III

Customer information packet

EM7018T-5

1.5HP, 3500RPM, 3PH, 60HZ, 143T, 3520M, XPFC, F

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UL UR
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	1.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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

Part Detail

Revision	V
Type	AC
Mech. spec.	35E362
Base	
Status	PRD/A
Elec. spec.	35WGM784
Layout	35LYE362
Eff. date	06-04-2024
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	06-11-2010

High Voltage Full Load Amps	1.5 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	3 @ 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
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	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.	35E362M784G1								
CAT.NO.	EM7018T-5								
HP	1.5	T. CODE			T3C				
VOLTS	575								
AMPS	1.5								
RPM	3500								
HZ	60	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 # 35602

Typical performance - not guaranteed values

Winding: 35WGM784-R002			Type: 3520M		Enclosure: XPFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1.5	Full Load Torque		2.22 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.5	Breakdown Torque		9.55 LB-FT	
R.P.M.		3500	Pull-up Torque		3.64 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		7.41 LB-FT
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1	No-load Current		0.763 A	
NEMA Nom. Eff.		84	Power Factor		85	
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		61
				Rotor inertia		0.0553 LB-FT2

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	66	78	85	89	90
Efficiency	72.1	82.1	84.3	84.7	84.3	82.8
Speed	3575	3552	3527	3499	3468	3434
Line amperes	0.839	1.01	1.25	1.54	1.85	2.24

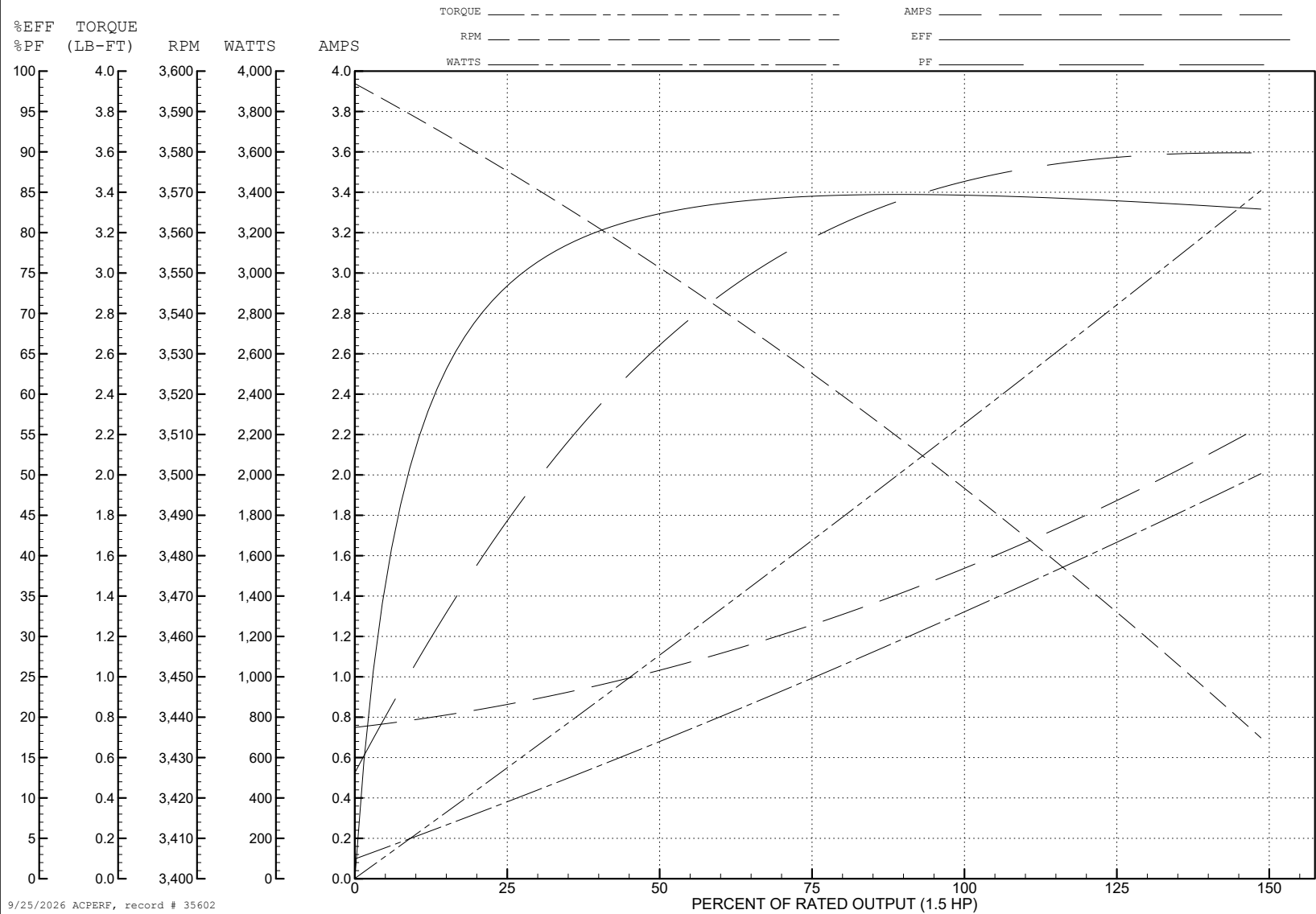
ABB Motors and Mechanical Inc.

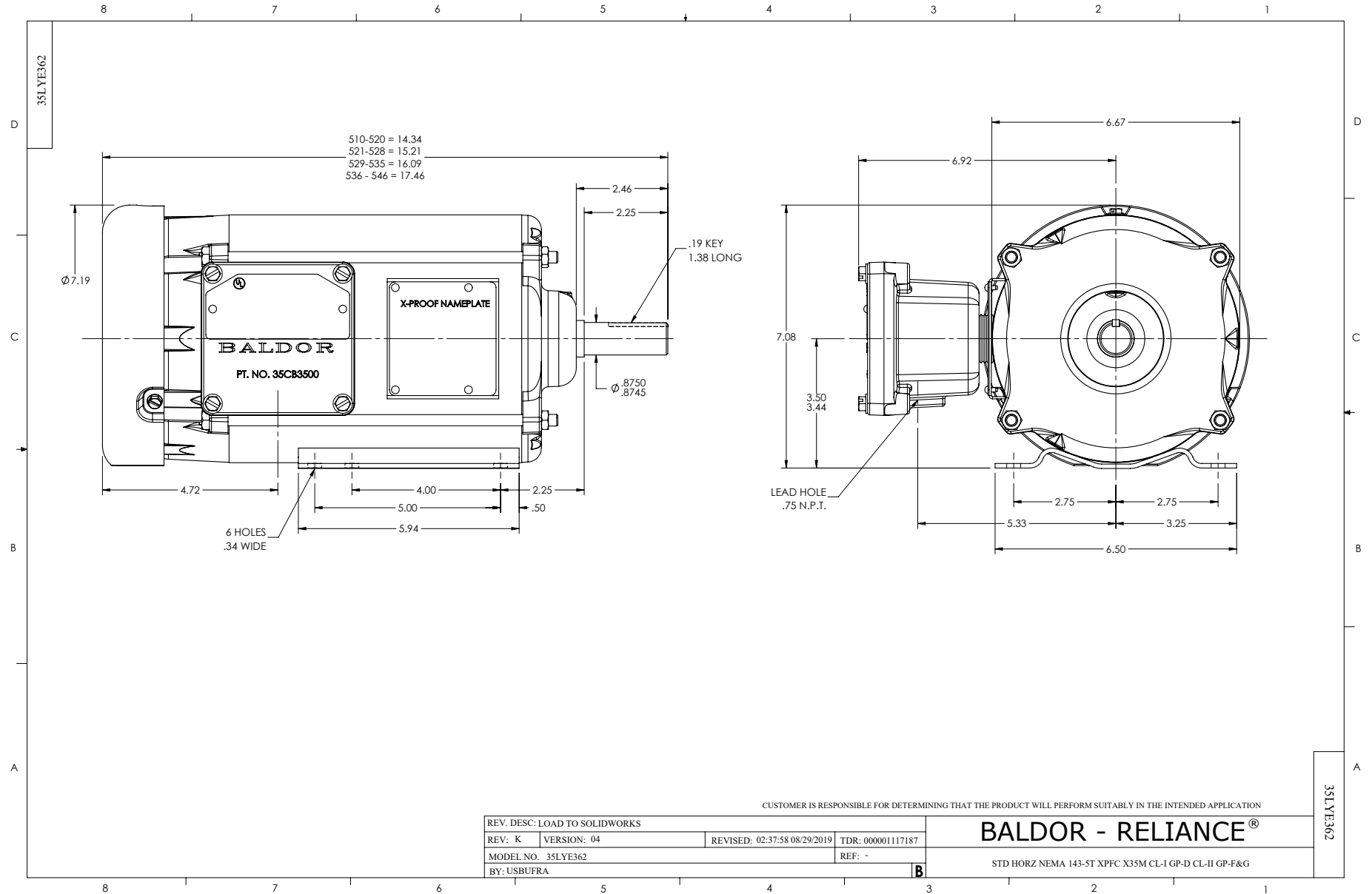
WINDING # 35WGM784

Typical performance - not guaranteed values.

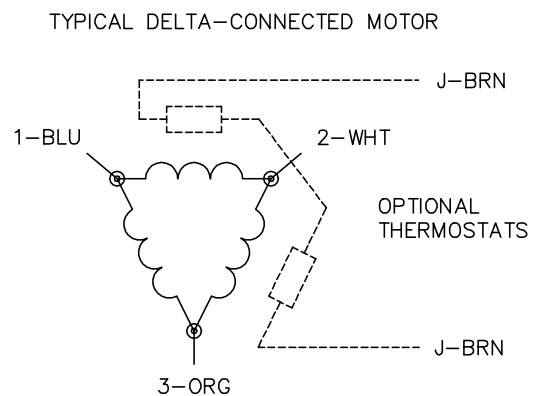
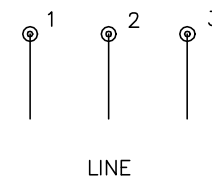
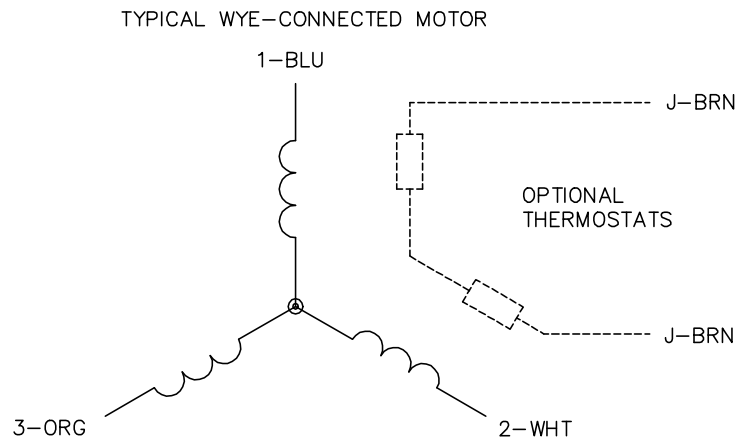
1.5 HP 3 PH 60 HZ 3500 RPM 575 V 3520M

TORQUES (LB-FT): PO=9.55 PU=3.64 LR=7.41 LRA=14.5





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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