ABB BALDOR RELIANCE

Customer information packet

XM14242T

2//1.5HP, 1760//1456RPM, 3PH, 60//50HZ, 145T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145T
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 @ 50 HZ
	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	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
Constant Torque Speed Range	3
Current @ Voltage	5.800 A @ 208.0 V
	5.600 A @ 230.0 V
	5.200 A @ 190.0 V
	2.800 A @ 460.0 V
	2.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	D
Type	AC
Mech. spec.	35E362
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYE362
Eff. date	06-04-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.23 IN
Power Factor	77
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1465 rpm
	1760 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.	35E362G073G1			**INV.TYPE**						
CAT.NO.	XM14242T			**C HP FR**	60	**C HP TO**	90			
HP	2//1.5			**CT HZ FROM**	3			**CT HZ TO**	60	
VOLTS	230/460//190/380			**VT HZ FROM**	3			**VT HZ TO**	60	
AMPS	5.6/2.8//5.2/2.6			**MAG CUR**	3.2/1.6					
RPM	1760//1465			**MX RPM**	2700					
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	86.5			
SER.F.	1.00	**DES**	B	**SL HZ**	1.3	**WK2**	0.202			
FRAME	145T	**RATING**	40C AMB-CONT							
	NEMA MG-1 PART 5, IP54									
	1.15 SF ON SINE WAVE									

AC Induction Motor Performance Data
Record # 87414
Typical performance - not guaranteed values

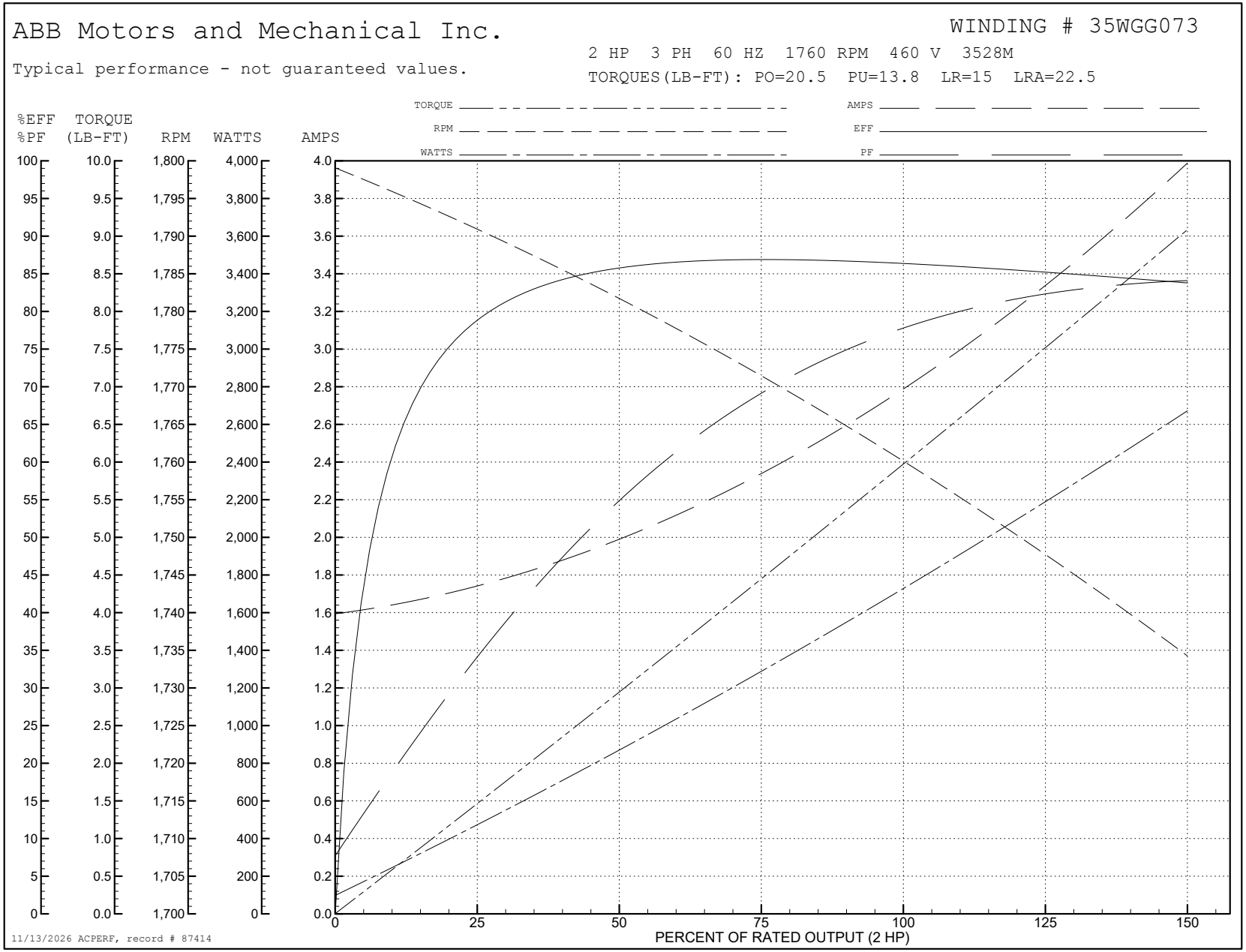
Winding: 35WGG073-R008	**Type:** 3528M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			2//1.5
Volts			230/460//190/380
Full Load Amps			5.6/2.8//5/2.5
R.P.M.			1760//1456
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	86.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	5.99 LB-FT
Start Configuration	direct on line
Breakdown Torque	20.5 LB-FT
Pull-up Torque	13.8 LB-FT
Locked-rotor Torque	15 LB-FT
Starting Current	22.5 A
No-load Current	1.62 A
Line-line Res. @ 25ºC	9.54 Ω
Temp. Rise @ Rated Load	64°C
Locked-rotor Power Factor	57.9
Rotor inertia	0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	55	68	76	81	84
Efficiency	78.2	85.3	86.8	86.5	85.4	83.6
Speed	1791	1782	1771	1760	1748	1734
Line amperes	1.71	1.97	2.34	2.82	3.36	3.97


ABB Motors and Mechanical Inc.
WINDING # 35WGG073
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/13/2026 ACPERF, record # 87414

AC Induction Motor Performance Data
Record # 87415
Typical performance - not guaranteed values

Winding: 35WGG073-R008	**Type:** 3528M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			2//1.5
Volts			230/460//190/380
Full Load Amps			5.6/2.8//5/2.5
R.P.M.			1760//1456
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	86.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	5.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	18.6 LB-FT
Pull-up Torque	13.3 LB-FT
Locked-rotor Torque	14.4 LB-FT
Starting Current	21 A
No-load Current	1.58 A
Line-line Res. @ 25ºC	9.54 Ω
Temp. Rise @ Rated Load	58°C
Locked-rotor Power Factor	63.3
Rotor inertia	0.202 lb-ft²

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	53	67	75	81	84
Efficiency	75.7	83.6	85.4	85.3	84.1	82.2
Speed	1492	1484	1474	1464	1453	1440
Line amperes	1.66	1.88	2.2	2.63	3.12	3.68

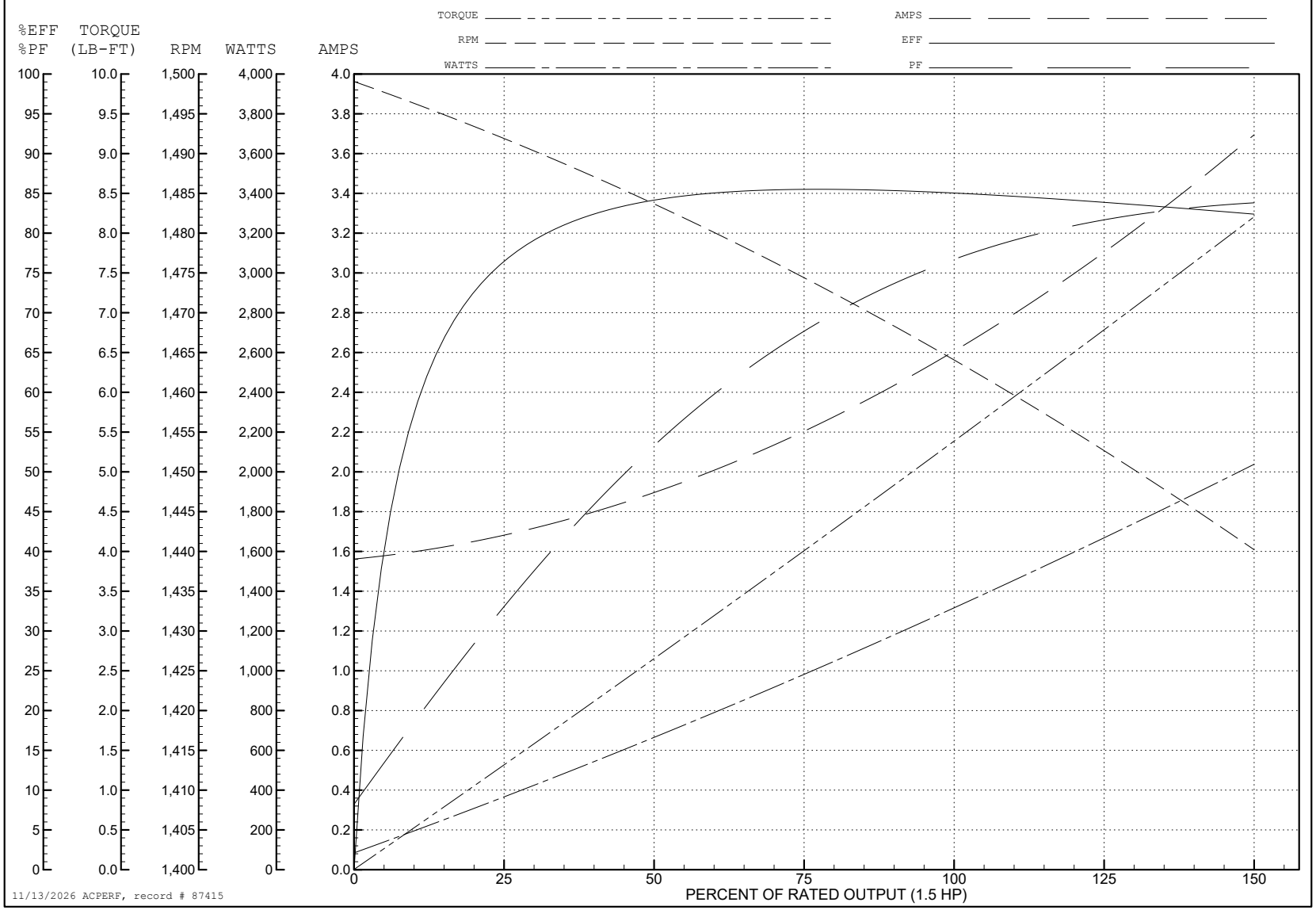
ABB Motors and Mechanical Inc.

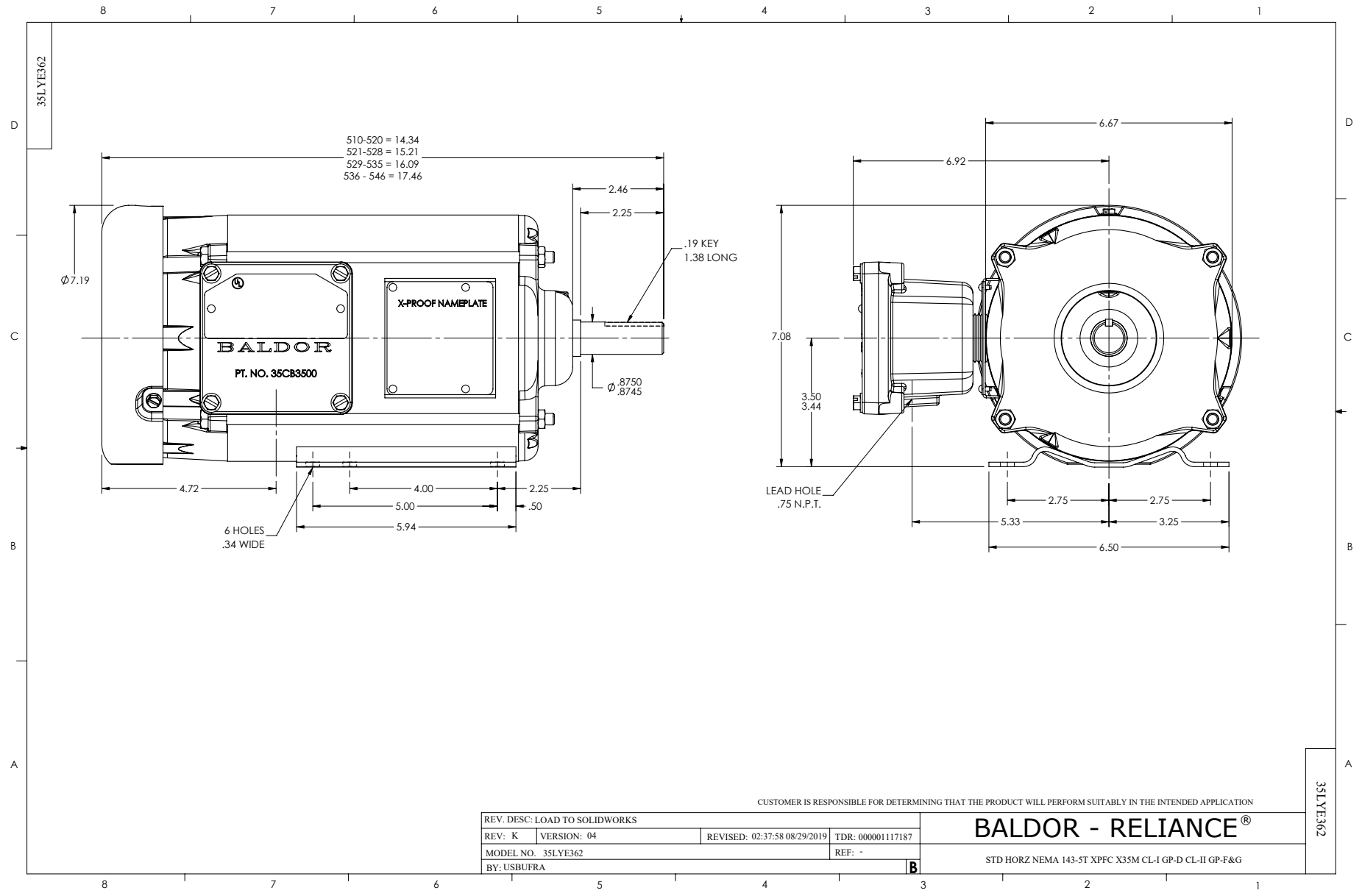
WINDING # 35WGG073

1.5 HP 3 PH 50 HZ 1464 RPM 380 V 3528M

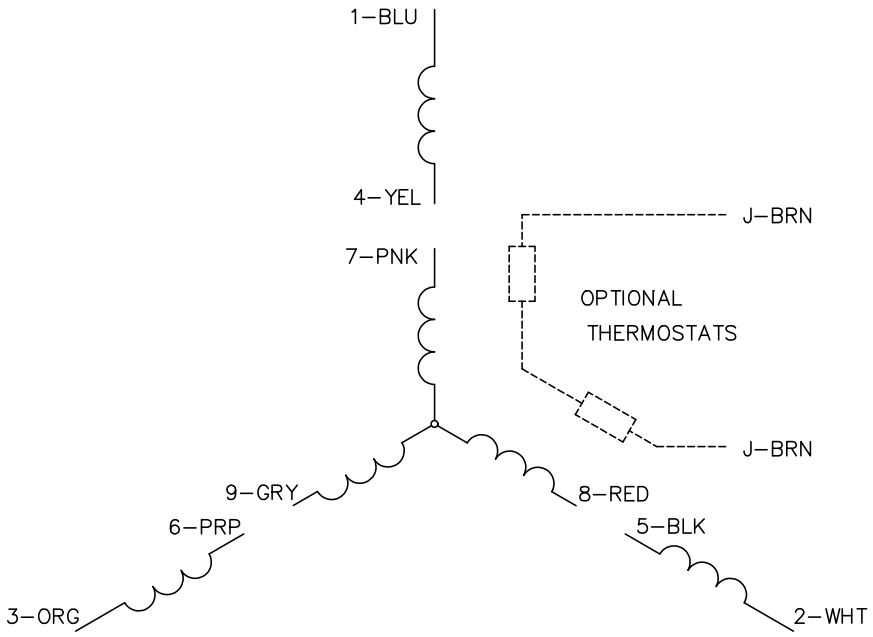
Typical performance - not guaranteed values.

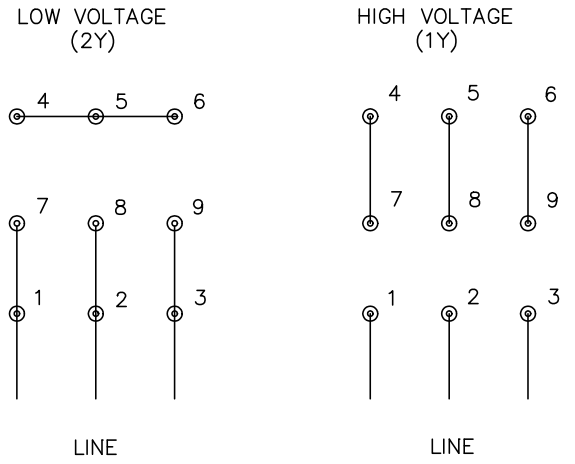
TORQUES(LB-FT): PO=18.6 PU=13.3 LR=14.4 LRA=21




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