ABB BALDOR RELIANCE

Customer information packet

CXM050742

0.75//0.5HP, 1765//1470RPM, 3PH, 60//50HZ, 5
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
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	.500 HP @ 50 HZ
	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
	380.0 V @ 50 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	6
Current @ Voltage	2.280 A @ 230.0 V
	2.400 A @ 208.0 V
	2.000 A @ 190.0 V
	1.140 A @ 460.0 V
	1.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYE2098
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3514M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	74
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	1765 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

NP0887XPSL											
NO.				**CC**							
S/N				**TEMP CODE**	T3C						
SPEC.	35-0000-1371			**INV.TYPE**	PWM						
CAT.NO.	CXM050742			**C HP FR**	60	**C HP TO**	90				
HP	.75//0.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	2.4/1.2//2.2/1.1		**MAG CUR**	1.7/0.85							
RPM	1765//1470		**MX RPM**								
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	82.5				
SER.F.	1.00	**DES**	B	**SL HZ**		**WK2**	0.101				
FRAME	56C	**RATING**	40C AMB-CONT								

AC Induction Motor Performance Data
Record # 89842
Typical performance - not guaranteed values

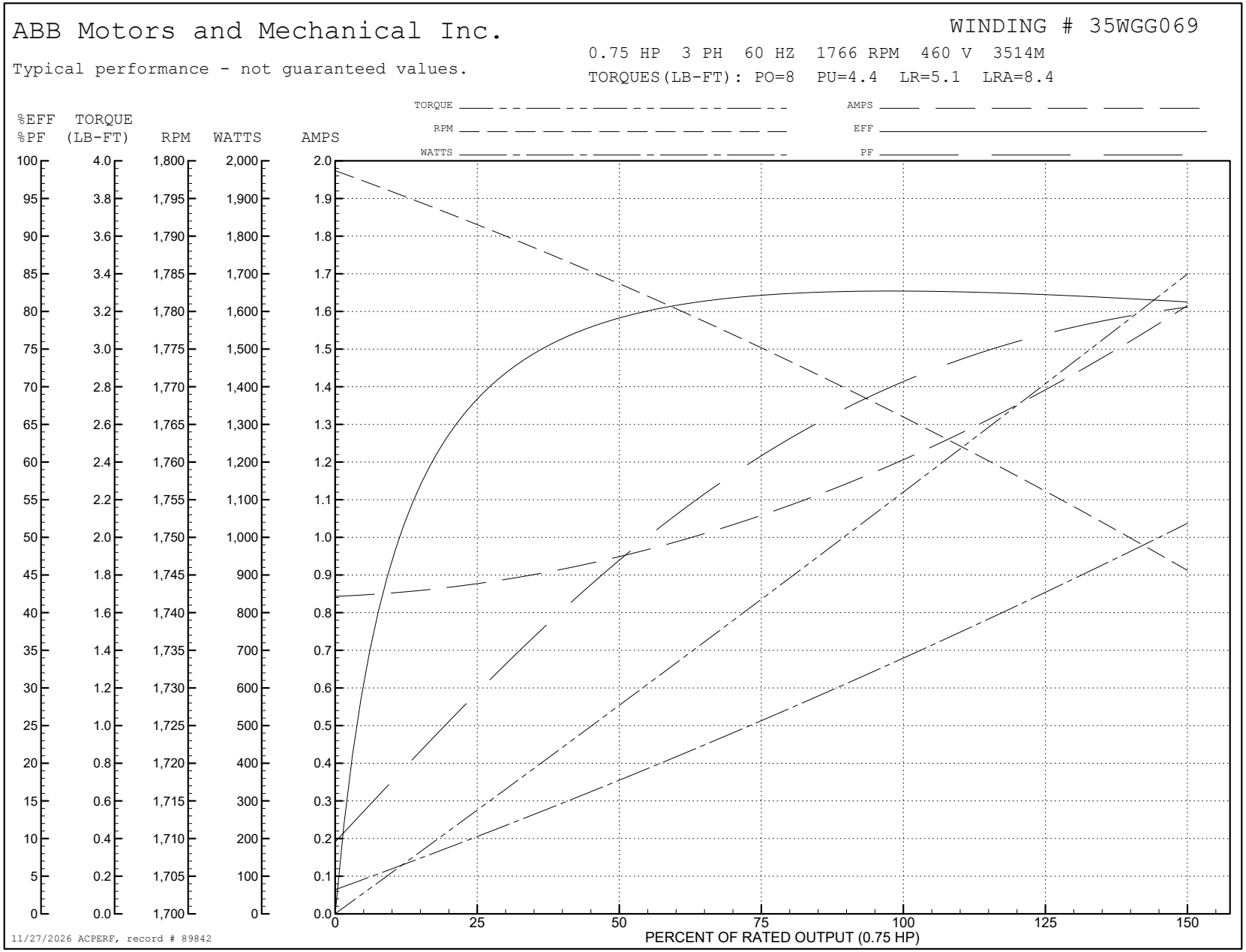
Winding: 35WGG069-R027	**Type:** 3514M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			.75//.5
Volts			230/460//190/380
Full Load Amps			2.4/1.2//2.2/1.1
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	82.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.24 LB-FT
Start Configuration	direct on line
Breakdown Torque	8 LB-FT
Pull-up Torque	4.4 LB-FT
Locked-rotor Torque	5.1 LB-FT
Starting Current	8.4 A
No-load Current	0.85 A
Line-line Res. @ 25ºC	30.3 Ω
Temp. Rise @ Rated Load	25°C
Locked-rotor Power Factor	66.8
Rotor inertia	0.101 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	48	61	70	77	81
Efficiency	68.4	79.2	82.1	82.9	82.4	81.1
Speed	1791	1783	1775	1766	1757	1745
Line amperes	0.87	0.95	1.06	1.21	1.4	1.61


ABB Motors and Mechanical Inc.
WINDING # 35WGG069
0.75 HP 3 PH 60 HZ 1766 RPM 460 V 3514M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=8 PU=4.4 LR=5.1 LRA=8.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/27/2026 ACPERF, record # 89842

AC Induction Motor Performance Data
Record # 89843
Typical performance - not guaranteed values

Winding: 35WGG069-R027	**Type:** 3514M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			.75//.5
Volts			230/460//190/380
Full Load Amps			2.4/1.2//2.2/1.1
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	82.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	1.79 LB-FT
Start Configuration	direct on line
Breakdown Torque	7.1 LB-FT
Pull-up Torque	4.1 LB-FT
Locked-rotor Torque	4.8 LB-FT
Starting Current	7.7 A
No-load Current	0.83 A
Line-line Res. @ 25ºC	30.3 Ω
Temp. Rise @ Rated Load	21°C
Locked-rotor Power Factor	72.2
Rotor inertia	0.101 lb-ft²

Load Characteristics 380 V, 50 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	43	56	66	73	78
Efficiency	63.5	75.7	79.7	81.1	81.1	80.2
Speed	1492	1486	1480	1472	1465	1456
Line amperes	0.84	0.89	0.97	1.07	1.21	1.37

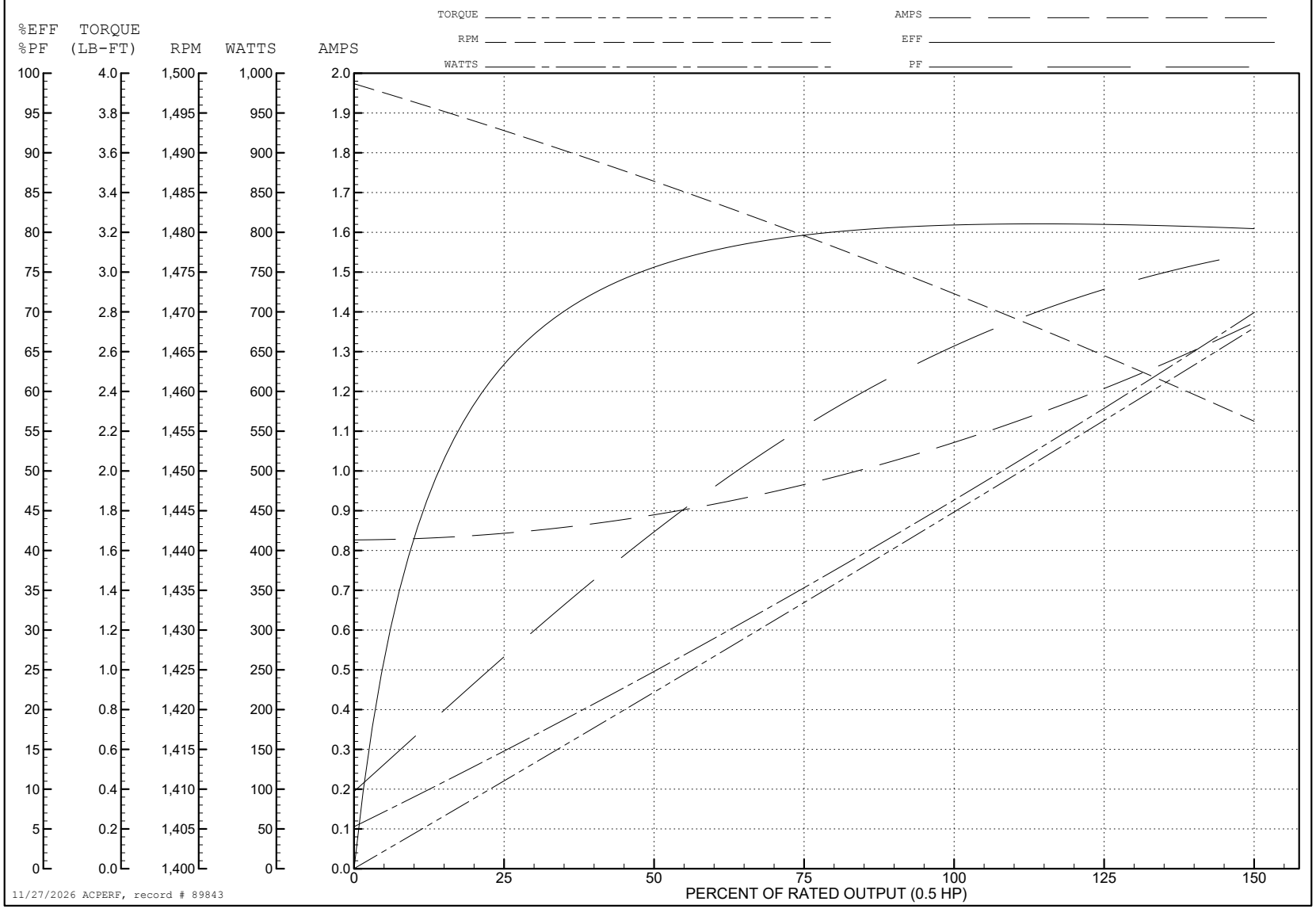
ABB Motors and Mechanical Inc.

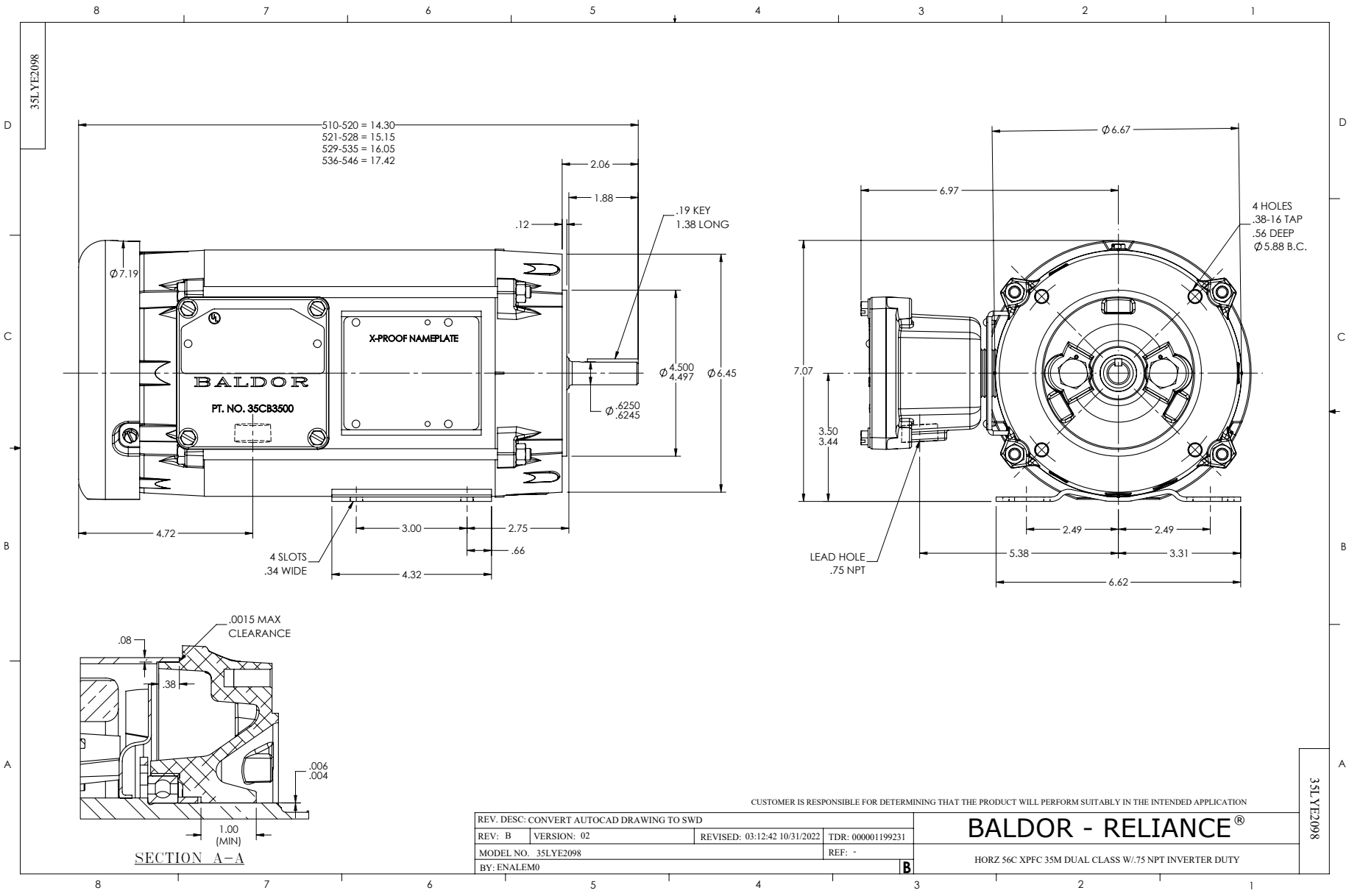
WINDING # 35WGG069

0.5 HP 3 PH 50 HZ 1472 RPM 380 V 3514M

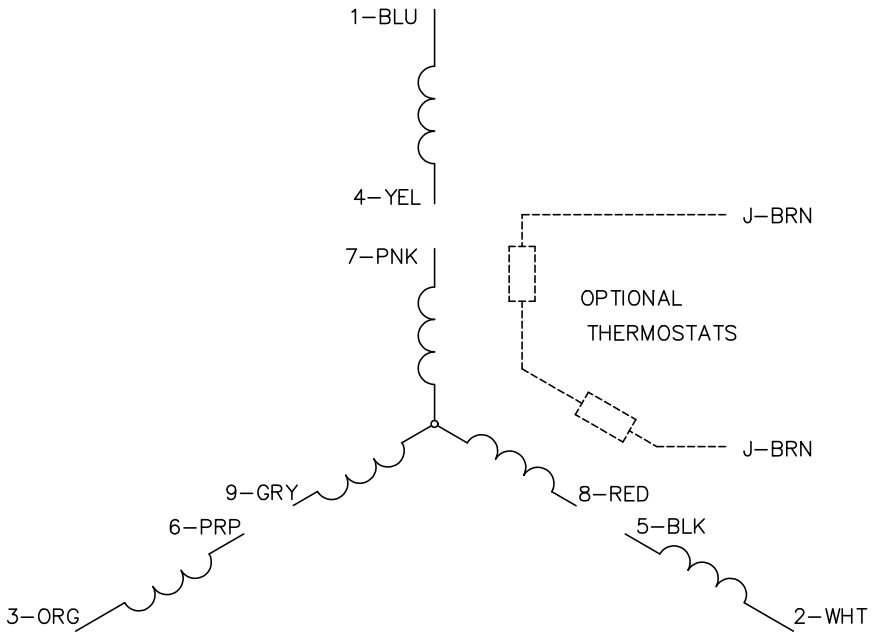
Typical performance - not guaranteed values.

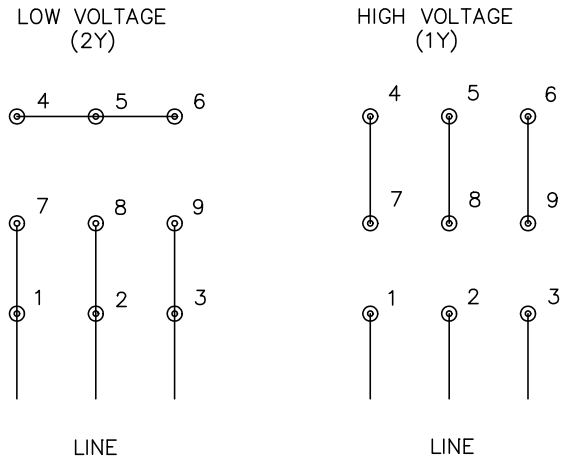
TORQUES(LB-FT): PO=7.1 PU=4.1 LR=4.8 LRA=7.7




35LYE2098
510-520 = 14.30
521-528 = 15.15
529-535 = 16.05
536-546 = 17.42
2.06
1.88
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø6.45
Ø.6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
Ø6.67
6.97
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
7.07
3.50
3.44
LEAD HOLE
.75 NPT
2.49
2.49
5.38
3.31
6.62
.0015 MAX
CLEARANCE
.08
.38
.006
.004
1.00
(MIN)
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 03:12:42 10/31/2022
TDR: 000001199231
MODEL NO. 35LYE2098
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPFC 35M DUAL CLASS W/.75 NPT INVERTER DUTY
35LYE2098

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