ABB BALDOR RELIANCE

Customer information packet

XM14162T

1//.75HP, 1155//970RPM, 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	1.000 HP @ 60 HZ
	.750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 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	2.2
Current @ Voltage	3.500 A @ 208.0 V
	3.200 A @ 190.0 V
	3.000 A @ 230.0 V
	1.600 A @ 380.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	-
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYQ558
Eff. date	06-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	1.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.21 IN
Power Factor	67
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1155 rpm

	970 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.	35Q558G019G2			**INV.TYPE**	PWM				
CAT.NO.	XM14162T			**C HP FR**	60	**C HP TO**	90		
HP	1//.75			**CT HZ FROM**	2.2			**CT HZ TO**	60
VOLTS	230/460//190/380			**VT HZ FROM**	2.2			**VT HZ TO**	60
AMPS	3/1.5//3.2/1.6		**MAG CUR**	2/1					
RPM	1155//970		**MX RPM**	1800					
HZ	60//50	**PH** 3	**CL** F	**NOM.EFF.**	82.5				
SER.F.	1.00	**DES** B	**SL HZ**	1.57	**WK2**	0.189			
FRAME	145T	**RATING**	40C AMB-CONT						
	55C AMB AT 1.00 SF SINEWAVE								
	NEMA MG-1 PART 5, IP54			1.15 SF SINEWAVE					

AC Induction Motor Performance Data
Record # 87727
Typical performance - not guaranteed values

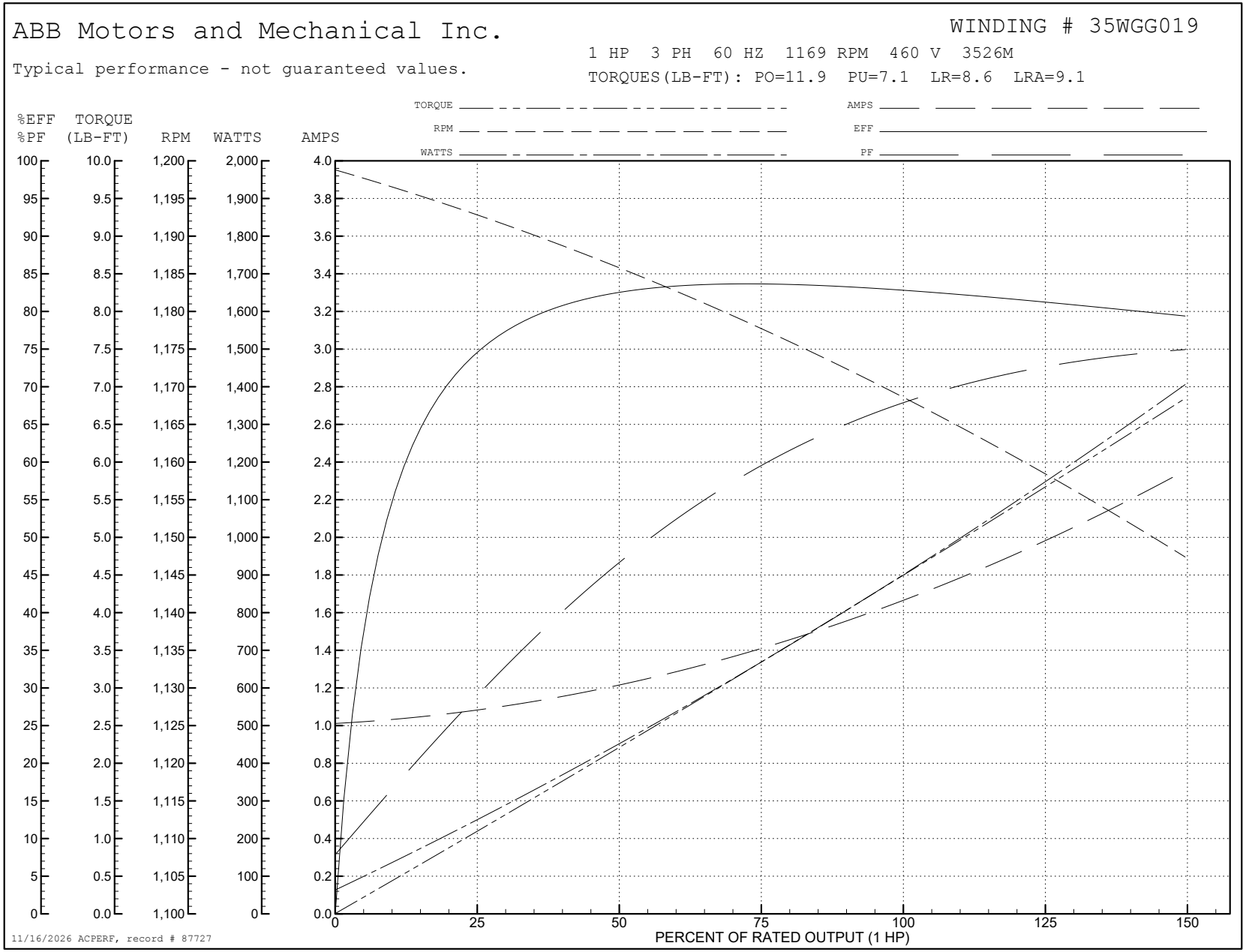
Winding: 35WGG019-R008	**Type:** 3526M	**Enclosure:** XPFC

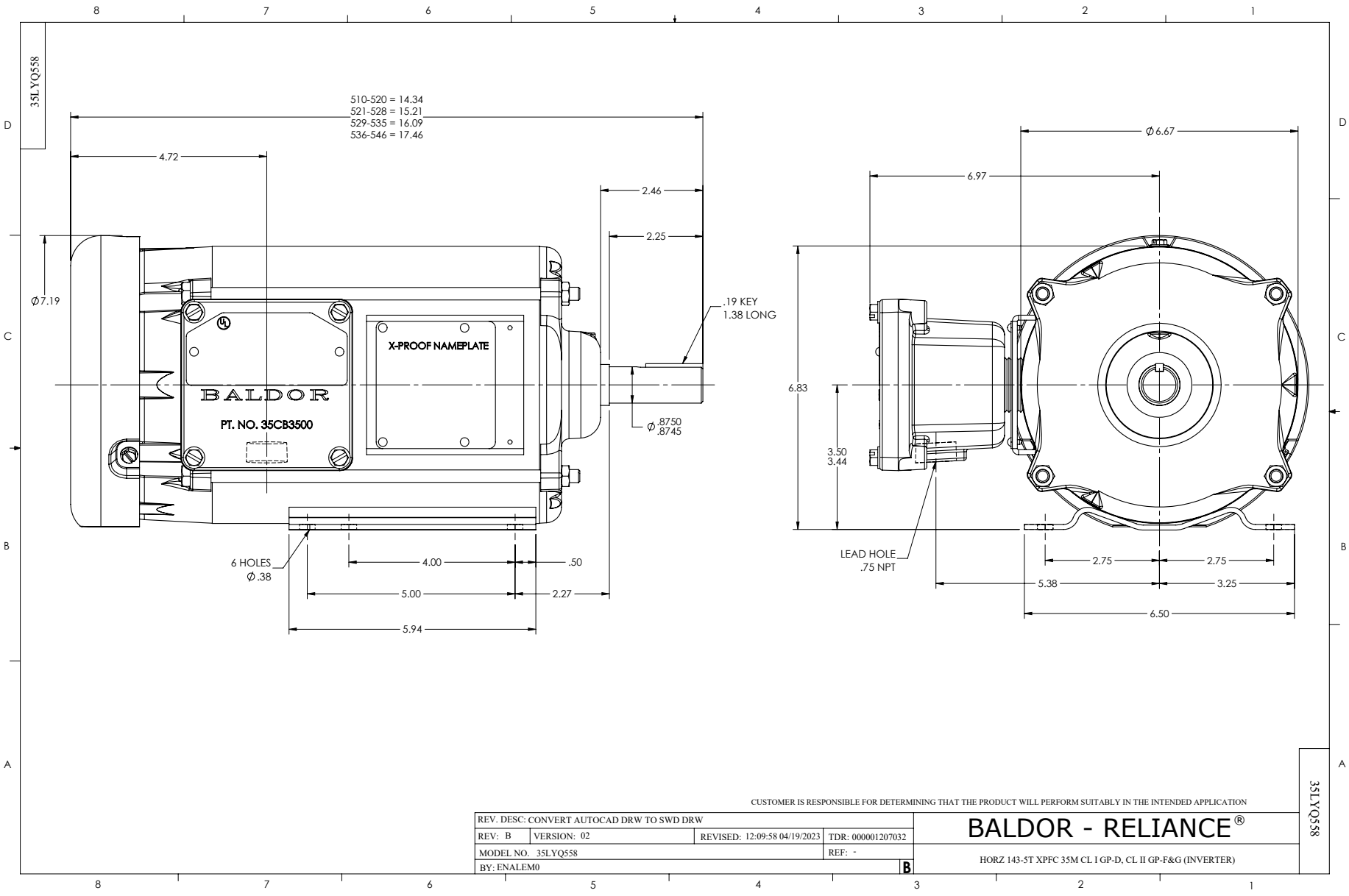
Nameplate Data			
Rated Output (HP)			1//.75
Volts			230/460//190/380
Full Load Amps			3/1.5//3.2/1.6
R.P.M.			1155//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	82.5	**Power Factor**	67
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	11.9 LB-FT
Pull-up Torque	7.1 LB-FT
Locked-rotor Torque	8.6 LB-FT
Starting Current	9.1 A
No-load Current	1.02 A
Line-line Res. @ 25ºC	21.1 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	48.3
Rotor inertia	0.189 lb-ft²

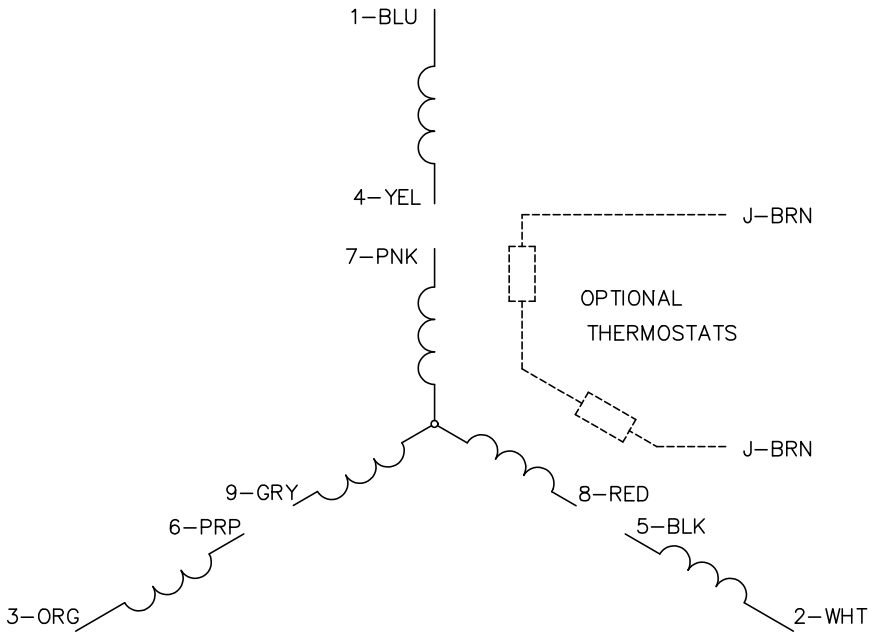
Load Characteristics 460 V, 60 Hz, 1 HP

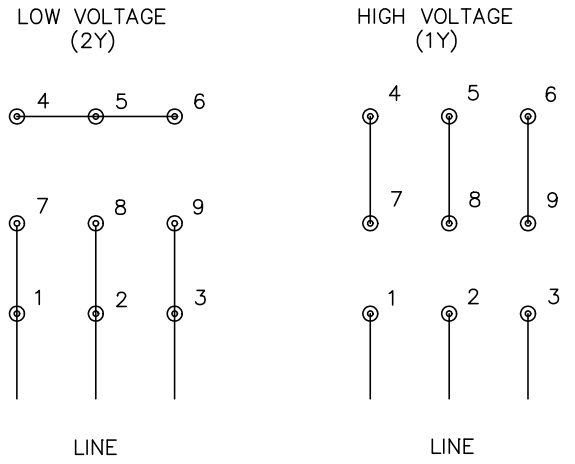
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	47	59	67	72	75
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1
Speed	1193	1185	1178	1169	1159	1147
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35


ABB Motors and Mechanical Inc.
WINDING # 35WGG019
1 HP 3 PH 60 HZ 1169 RPM 460 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/16/2026 ACPERF, record # 87727


35LYQ558
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.46
2.25
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
.8745
6 HOLES
Ø .38
4.00
.50
5.00
2.27
5.94
Ø 6.67
6.97
6.83
3.50
3.44
LEAD HOLE
.75 NPT
2.75
2.75
5.38
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 12:09:58 04/19/2023
TDR: 000001207032
MODEL NO. 35LYQ558
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 143-5T XPFC 35M CL I GP-D, CL II GP-F&G (INVERTER)
35LYQ558

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