ABB BALDOR RELIANCE

Customer information packet

XM141522T-5

1.5HP, 3490RPM, 3PH, 60HZ, 143T, 3520M, XPFC, F
Class - CLI GP D; CLII GP F,G
Division - Division I

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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	UL
	CSA EEV
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	1.600 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGA0037
Layout	35LYQ558
Eff. date	09-19-2025
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	04-22-2021

IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.34 IN
Power Factor	84
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3490 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.	35-0000-1124			**INV.TYPE**	PWM						
CAT.NO.	XM141522T-5			**C HP FR**	60	**C HP TO**	90				
HP	1.5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	1.6			**MAG CUR**	.81						
RPM	3490			**MX RPM**	5400						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	84				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.06				
FRAME	143T	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

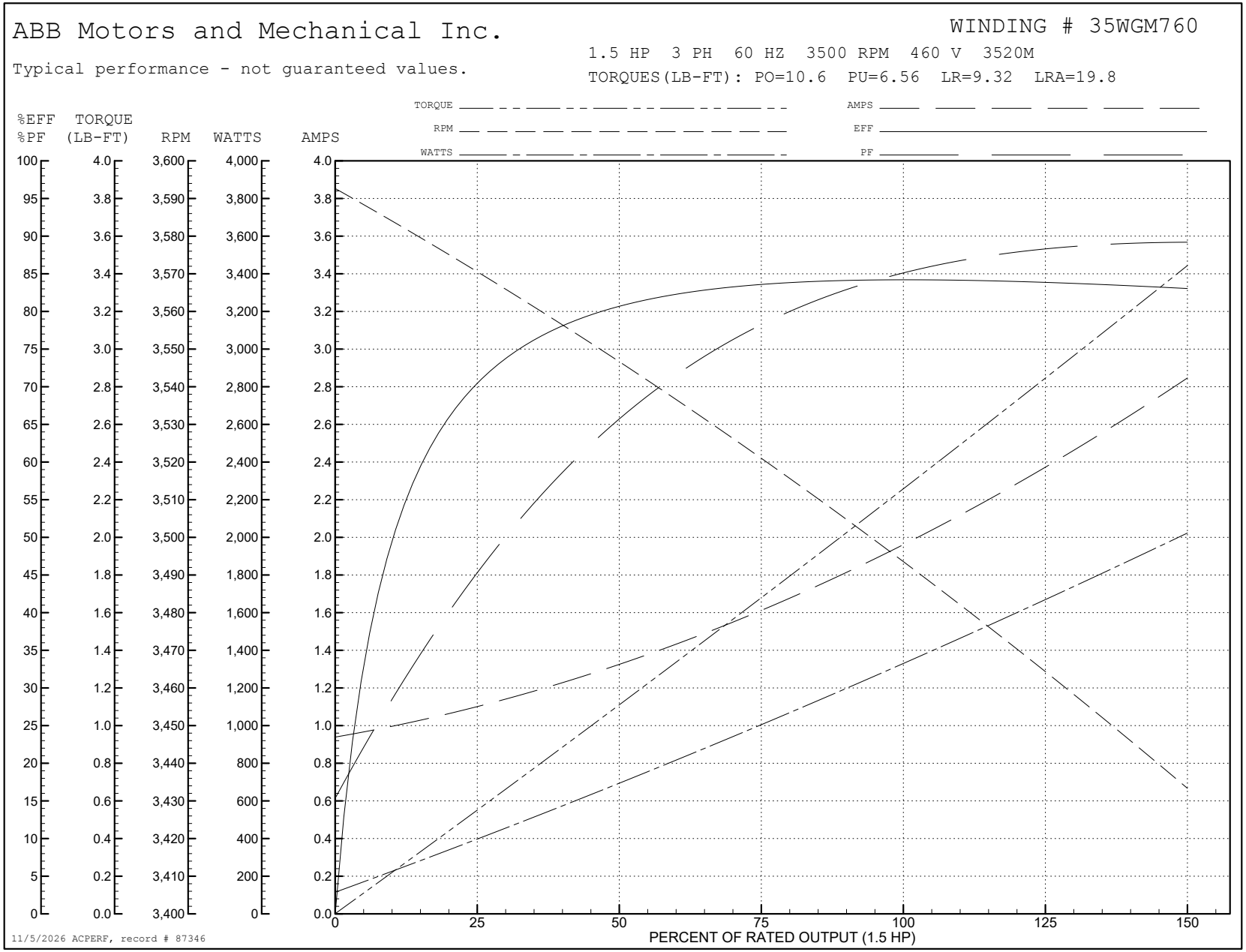
AC Induction Motor Performance Data
Record # 87346
Typical performance - not guaranteed values

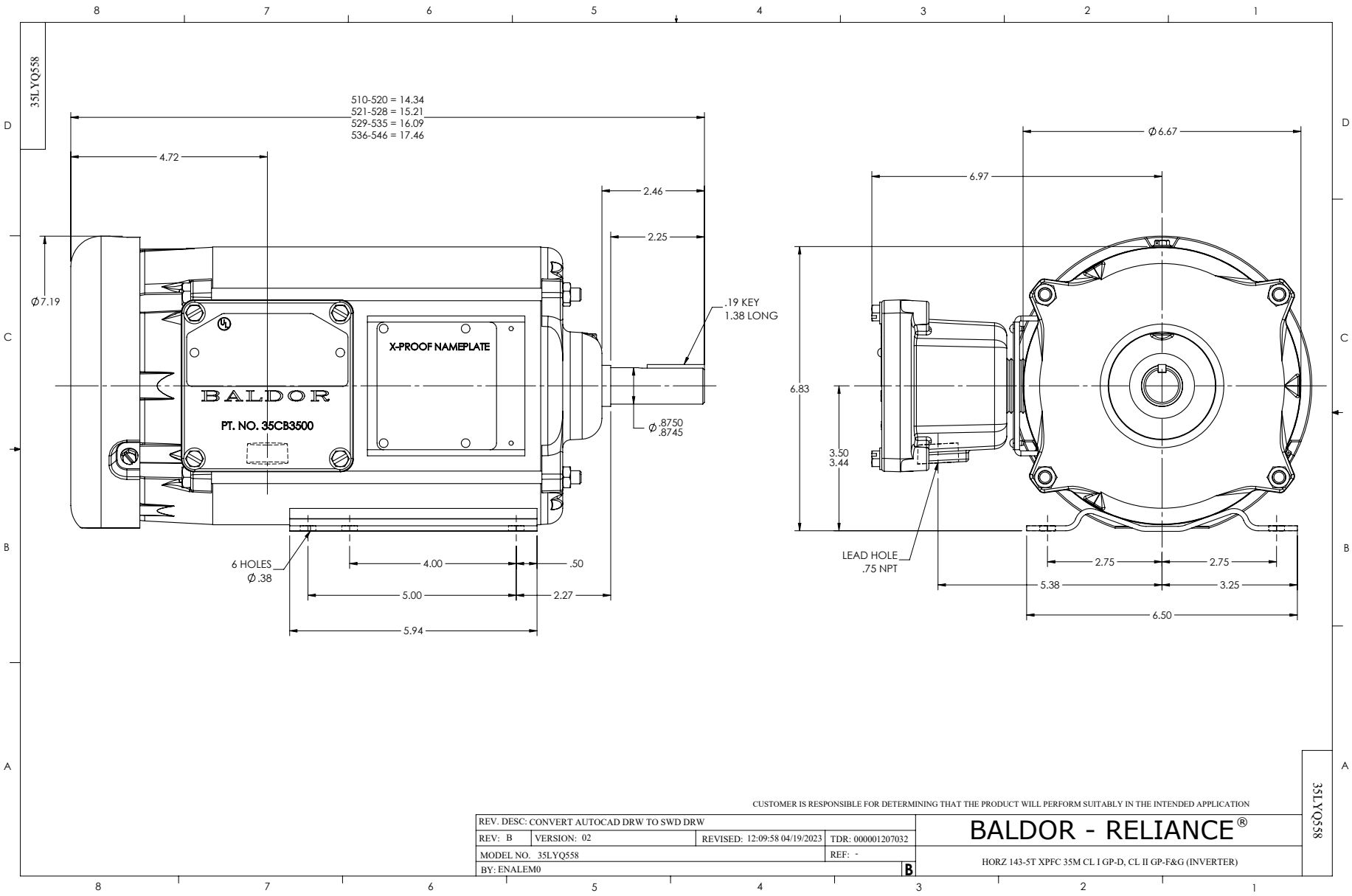
Winding: 35WGM760-R082	**Type:** 3520M	**Enclosure:** TEFC

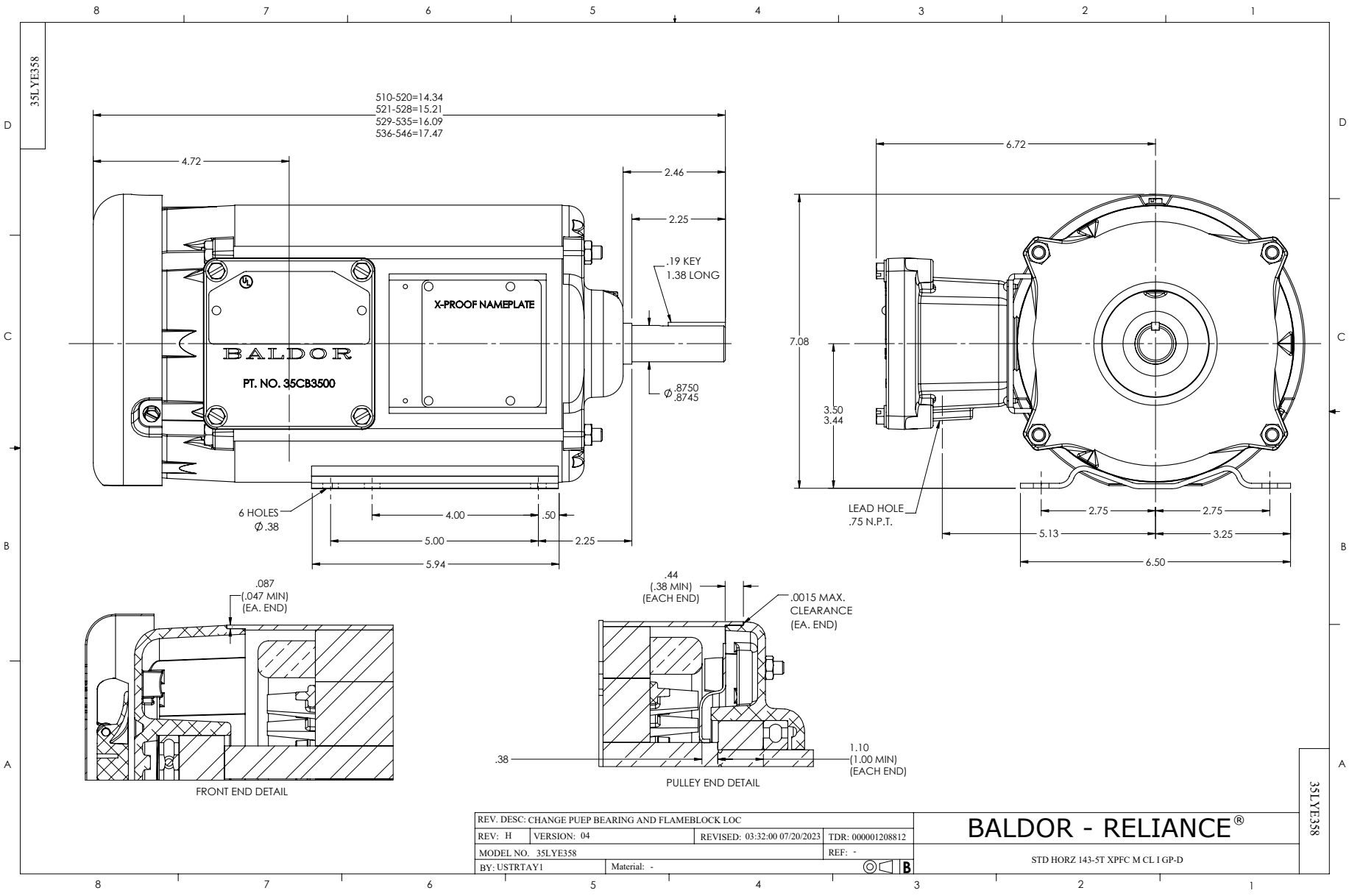
Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.269 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			4-3.8/1.9	**Breakdown Torque**	10.6 LB-FT
R.P.M.			3500	**Pull-up Torque**	6.56 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.32 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	19.8 A
Service Factor (S.F.)			1.15	**No-load Current**	0.96 A
NEMA Nom. Eff.	84	**Power Factor**	85	**Line-line Res. @ 25ºC**	9.6914 Ω
Rating - Duty			40 AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	47°C

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	67	78	84	88	90	86
Efficiency	70.4	80.6	83.5	84.3	83.9	82.9	84.1
Speed	3569.9	3545.8	3520.8	3493.4	3464.3	3433	3476
Line amperes	1.08	1.31	1.62	1.99	2.39	2.83	2.23

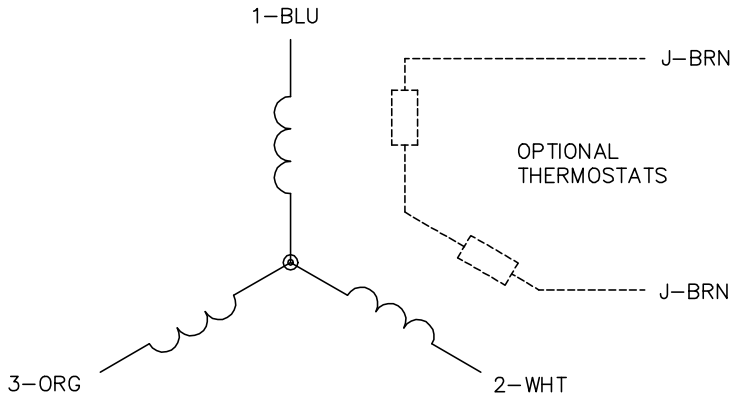

ABB Motors and Mechanical Inc.
WINDING # 35WGM760
1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10.6 PU=6.56 LR=9.32 LRA=19.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/5/2026 ACPERF, record # 87346

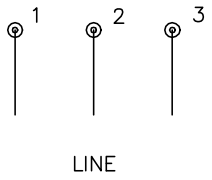

35LYQ558
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.46
2.25
Ø7.19
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
.8745
6 HOLES
Ø .38
4.00
.50
5.00
2.27
5.94
Ø 6.67
6.97
6.83
3.50
3.44
LEAD HOLE
.75 NPT
2.75
2.75
5.38
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR 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


35LYE358
510-520=14.34
521-528=15.21
529-535=16.09
536-546=17.47
4.72
2.46
2.25
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
Ø .8745
6 HOLES
Ø .38
4.00
.50
5.00
2.25
5.94
6.72
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.13
3.25
6.50
.087
(.047 MIN)
(EA. END)
FRONT END DETAIL
.44
(.38 MIN)
(EACH END)
.0015 MAX.
CLEARANCE
(EA. END)
.38
1.10
(1.00 MIN)
(EACH END)
PULLEY END DETAIL
REV. DESC: CHANGE PUEP BEARING AND FLAMEBLOCK LOC
REV: H
VERSION: 04
REVISED: 03:32:00 07/20/2023
TDR: 000001208812
MODEL NO. 35LYE358
REF: -
BY: USTRTAY1
Material: -
B
BALDOR - RELIANCE®
STD HORZ 143-5T XPFC M CL I GP-D
35LYE358

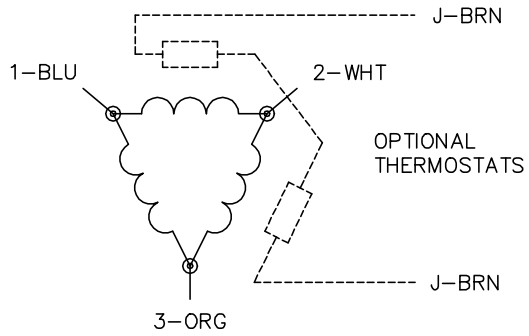
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1