ABB BALDOR RELIANCE

Customer information packet

VXM141522T

1.5//1HP, 3500//2900RPM, 3PH, 60//50HZ, 143T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	143TC
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 @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.700 A @ 380.0 V
	1.900 A @ 460.0 V
	3.400 A @ 190.0 V
	3.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE380
Eff. date	03-04-2021
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-02-2021

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	1.7 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	14.33 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	35-0000-1046			**INV.TYPE**	PWM						
CAT.NO.	VXM141522T			**C HP FR**	60	**C HP TO**	90				
HP	1.5//1			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	3.8/1.9//3.4/1.7			**MAG CUR**	1.8/.9						
RPM	3500//2900			**MX RPM**	5400						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	84				
SER.F.	1.00	**DES**	B	**SL HZ**	1.7	**WK2**	0.06				
FRAME	143TC	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 73829
Typical performance - not guaranteed values

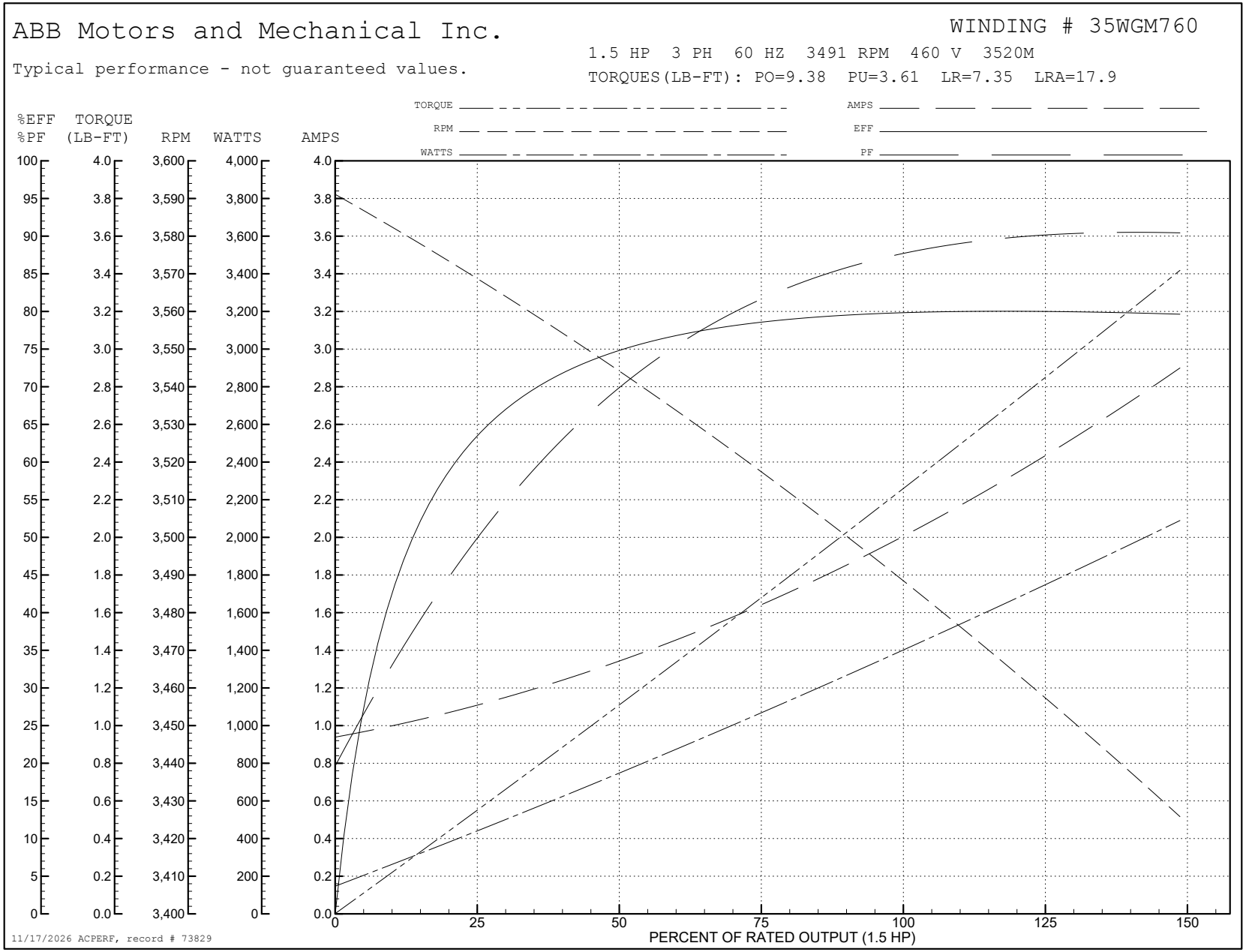
Winding: 35WGM760-R091	**Type:** 3520M	**Enclosure:** XPFC

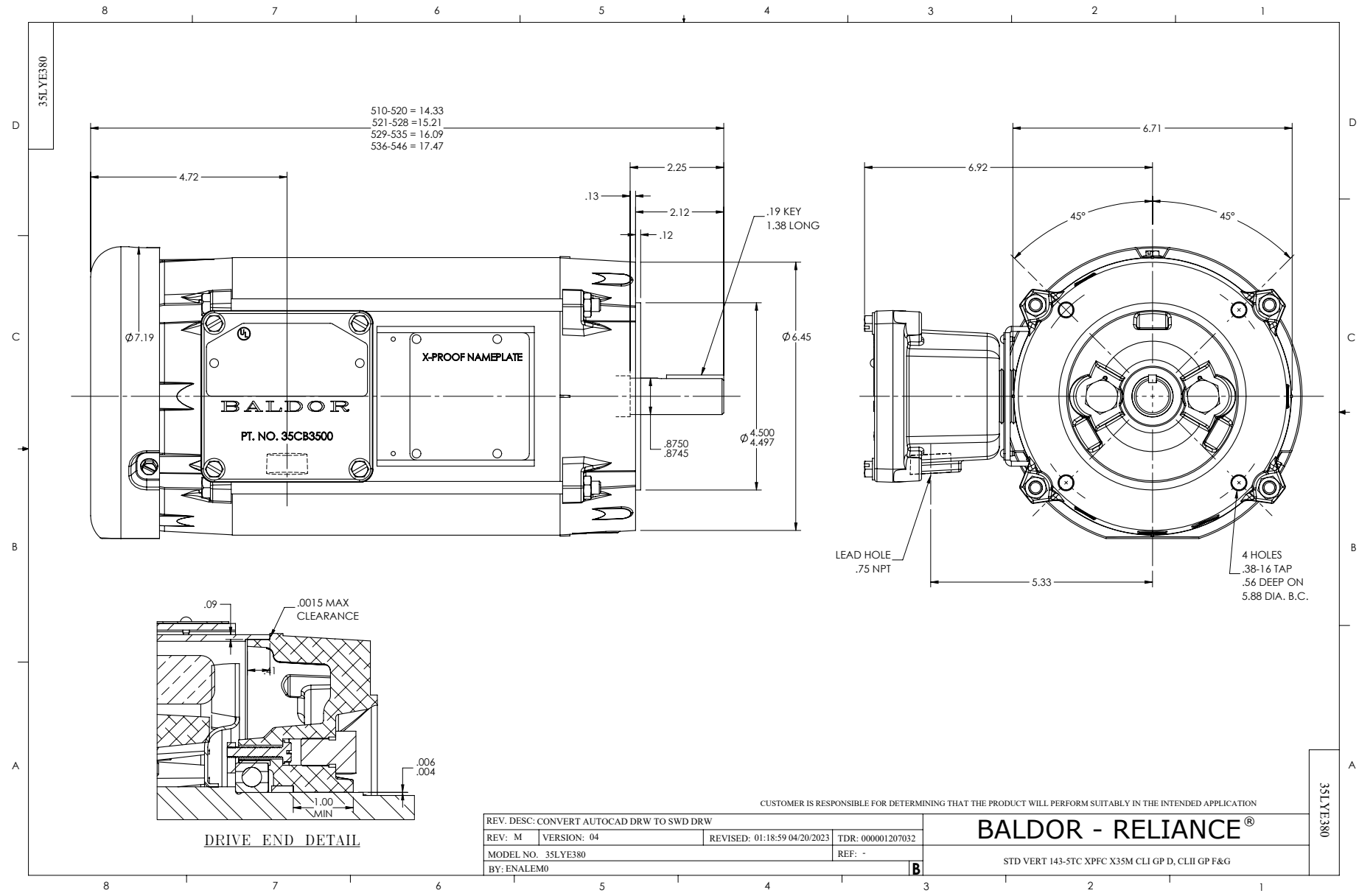
Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			3.8/1.9//3.4/1.7
R.P.M.			3500//2900
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	84	**Power Factor**	85
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage, High Speed Connection	
Full Load Torque	2.23 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.38 LB-FT
Pull-up Torque	3.61 LB-FT
Locked-rotor Torque	7.35 LB-FT
Starting Current	17.9 A
No-load Current	0.951 A
Line-line Res. @ 25ºC	12.2 Ω
Temp. Rise @ Rated Load	46°C
Locked-rotor Power Factor	60.1
Rotor inertia	0.0553 LB-FT2

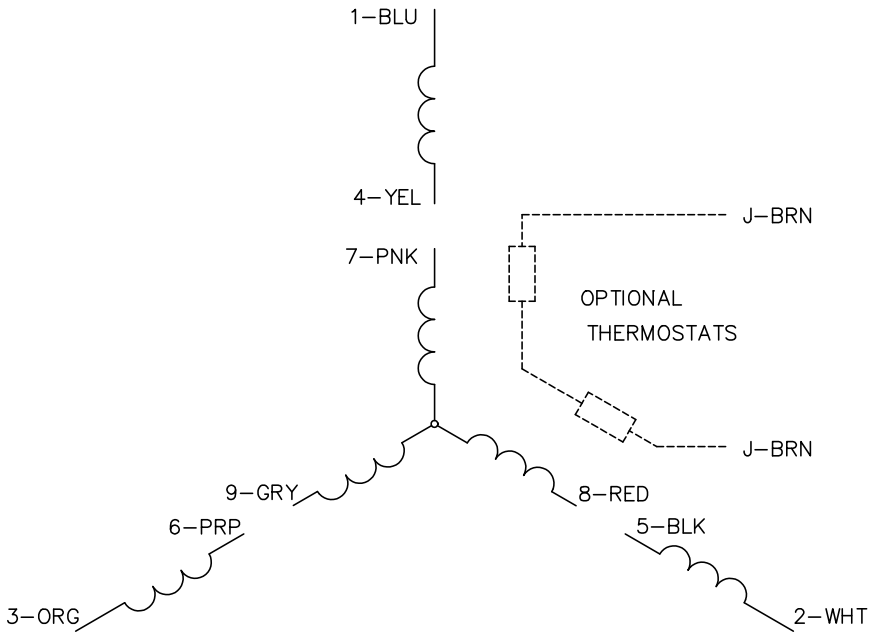
Load Characteristics 460 V, 60 Hz, 1.5 HP

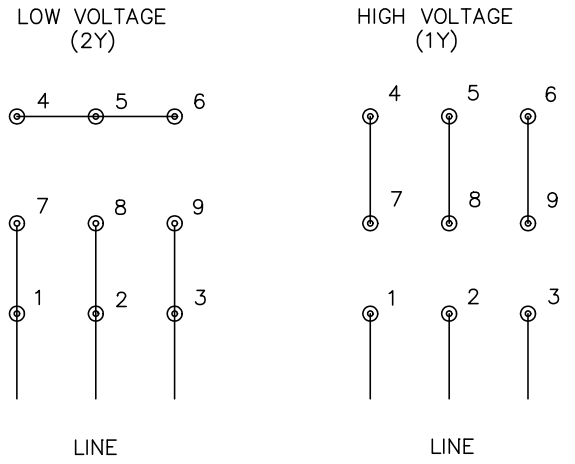
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	50	70	81	87	90	91
Efficiency	61.4	74.1	78.3	80	80.3	79.3
Speed	3569	3545	3519	3491	3459	3425
Line amperes	1.08	1.32	1.63	2	2.41	2.9


ABB Motors and Mechanical Inc.
WINDING # 35WGM760
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 3491 RPM 460 V 3520M
TORQUES(LB-FT): PO=9.38 PU=3.61 LR=7.35 LRA=17.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/17/2026 ACPERF, record # 73829


35LYE380
510-520 = 14.33
521-528 =15.21
529-535 = 16.09
536-546 = 17.47
4.72
2.25
.13
2.12
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
.8750
.8745
6.71
6.92
45°
45°
LEAD HOLE
.75 NPT
5.33
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE
.006
.004
1.00
MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: M
VERSION: 04
REVISED: 01:18:59 04/20/2023
TDR: 000001207032
MODEL NO. 35LYE380
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 143-5TC XPFC X35M CLI GP D, CLII GP F&G
35LYE380

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