ABB BALDOR RELIANCE

Customer information packet

VXM141542T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3524M, XPFC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L

Part Detail

Revision	G
Type	AC
Mech. spec.	35E380
Base	
Status	PRD/A
Elec. spec.	35WGG122
Layout	35LYE380
Eff. date	03-19-2026
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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
Speed	1770 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**								
S/N				**TEMP CODE**	T3C							
SPEC.	35E380G122			**INV.TYPE**	PWM							
CAT.NO.	VXM141542T-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	1.7			**MAG CUR**	1.1							
RPM	1770			**MX RPM**	2700							
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	86.5					
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	0.174					
FRAME	145TC	**RATING**	40C AMB-CONT									
	NEMA MG-1 PART 5, IP54											
	1.15 SF ON SINE WAVE											

AC Induction Motor Performance Data
Record # 73824
Typical performance - not guaranteed values

Winding: 35WGM887-R028	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	4.47 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.8	**Breakdown Torque**	19.03 LB-FT
R.P.M.			1760	**Pull-up Torque**	9.34 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	13.3 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	14.6 A
Service Factor (S.F.)			1	**No-load Current**	1.09 A
NEMA Nom. Eff.	86.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	15.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
				Locked-rotor Power Factor	51.6
				Rotor inertia	0.154 LB-FT2

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	52	66	74	79	83
Efficiency	72.9	82	85.1	85.6	85.2	84.3
Speed	1790	1781	1771	1759	1747	1734
Line amperes	1.16	1.29	1.5	1.77	2.08	2.4

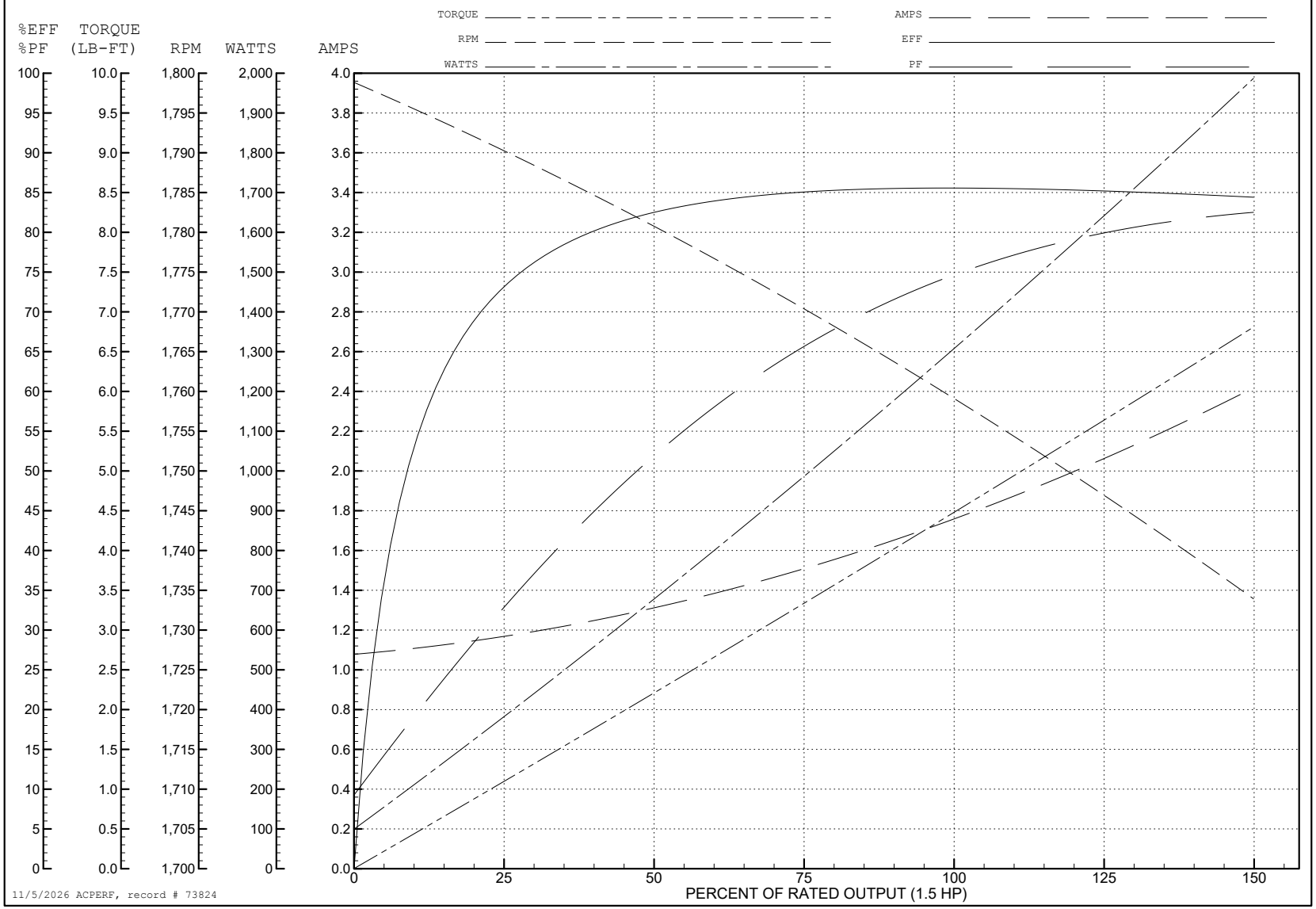
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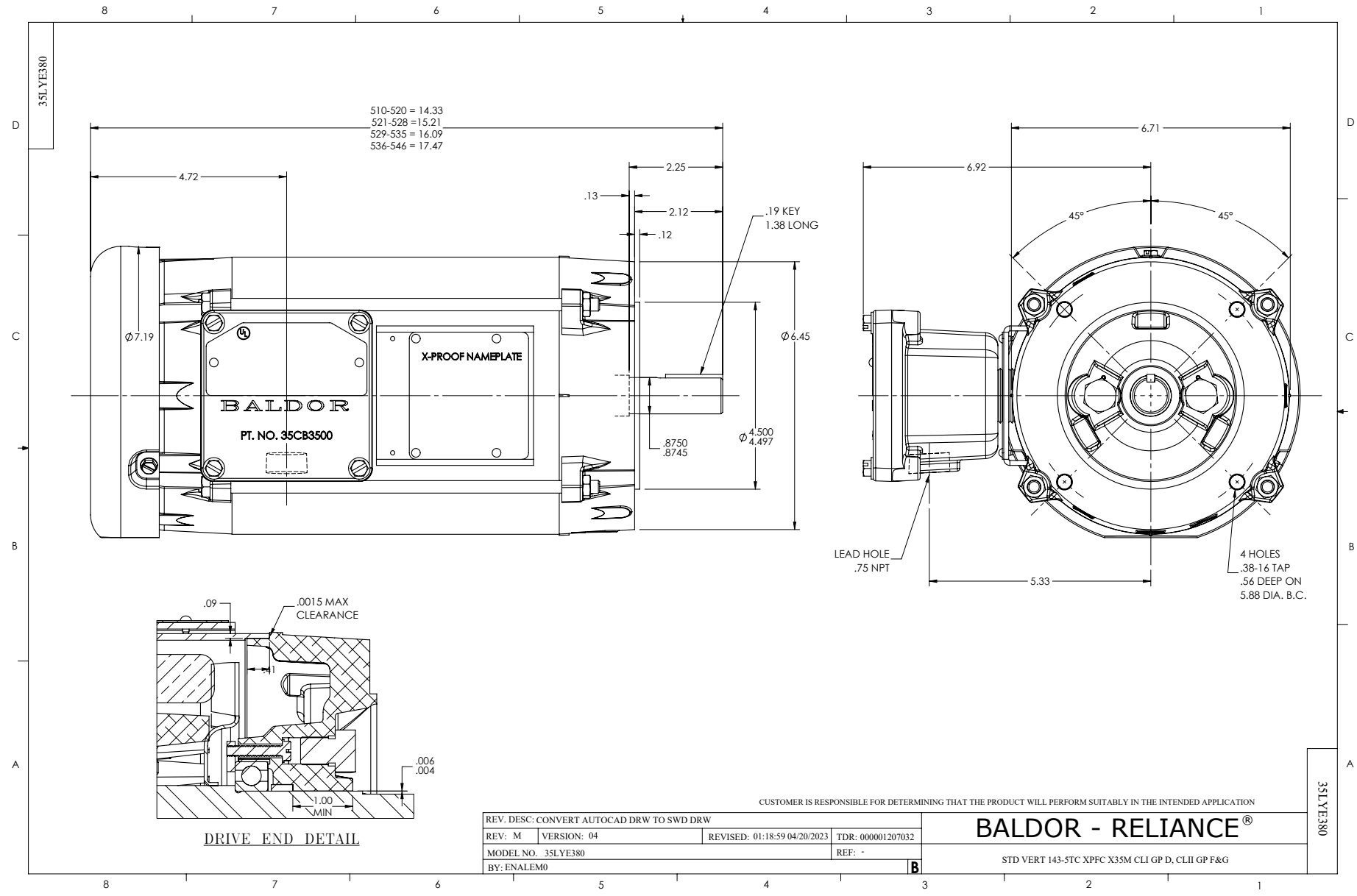
WINDING # 35WGM887

1.5 HP 3 PH 60 HZ 1760 RPM 575 V 3526M

Typical performance - not guaranteed values.

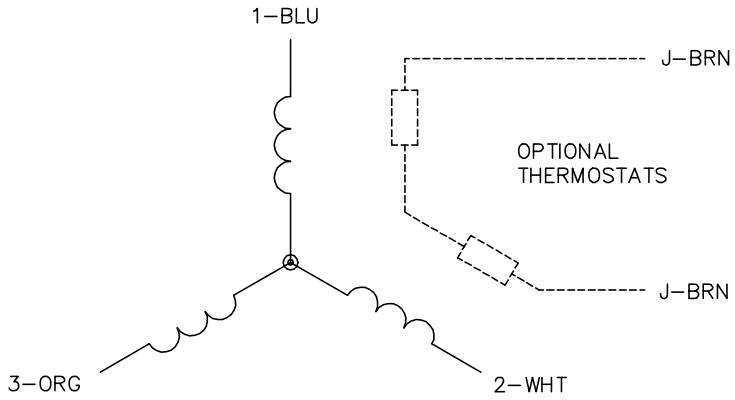
TORQUES(LB-FT): PO=19.03 PU=9.34 LR=13.3 LRA=14.6

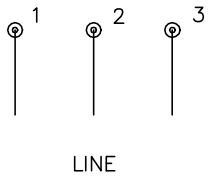



35LYE380
510-520 = 14.33
521-528 =15.21
529-535 = 16.09
536-546 = 17.47
4.72
2.25
.13
2.12
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø6.45
Ø4.500
4.497
.8750
.8745
6.71
6.92
45°
45°
LEAD HOLE
.75 NPT
5.33
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE
.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

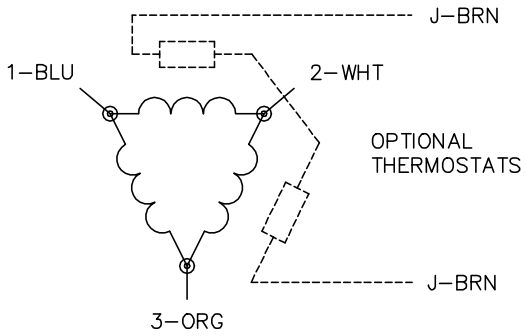
CD0006

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