ABB BALDOR RELIANCE

Customer information packet

VEM7037T-5

2HP, 1755RPM, 3PH, 60HZ, 145TC, 3528M, XPFC, F1
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.150 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	G
Type	AC
Mech. spec.	35E380
Base	
Status	PRD/A
Elec. spec.	35WGG113
Layout	35LYE380
Eff. date	03-19-2026
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	01-10-2022

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	80
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
Shaft Slinger Indicator	No Slinger
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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	35E380G113G1						
CAT.NO.							
HP	2	**T. CODE**	T3C				
VOLTS	575						
AMPS	2.15						
RPM	1765						
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.00	**DES**	B	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	145TC	**NEMA-NOM-EFF**	86.5				
		PF	80				
BLANK							

AC Induction Motor Performance Data
Record # 87426
Typical performance - not guaranteed values

Winding: 35WGG113-R005	**Type:** 3528M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	5.95 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.15	**Breakdown Torque**	23.7 LB-FT
R.P.M.			1764	**Pull-up Torque**	14.43 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.45 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	19.89 A
Service Factor (S.F.)			1	**No-load Current**	1.39 A
NEMA Nom. Eff.	86.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	15 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
				Locked-rotor Power Factor	57
				Rotor inertia	0.188 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	34	54	68	76	81	84
Efficiency	77	84.7	86.6	86.3	85.3	83.7
Speed	1791	1783	1775	1766	1757	1745
Line amperes	1.45	1.64	1.93	2.29	2.74	3.19

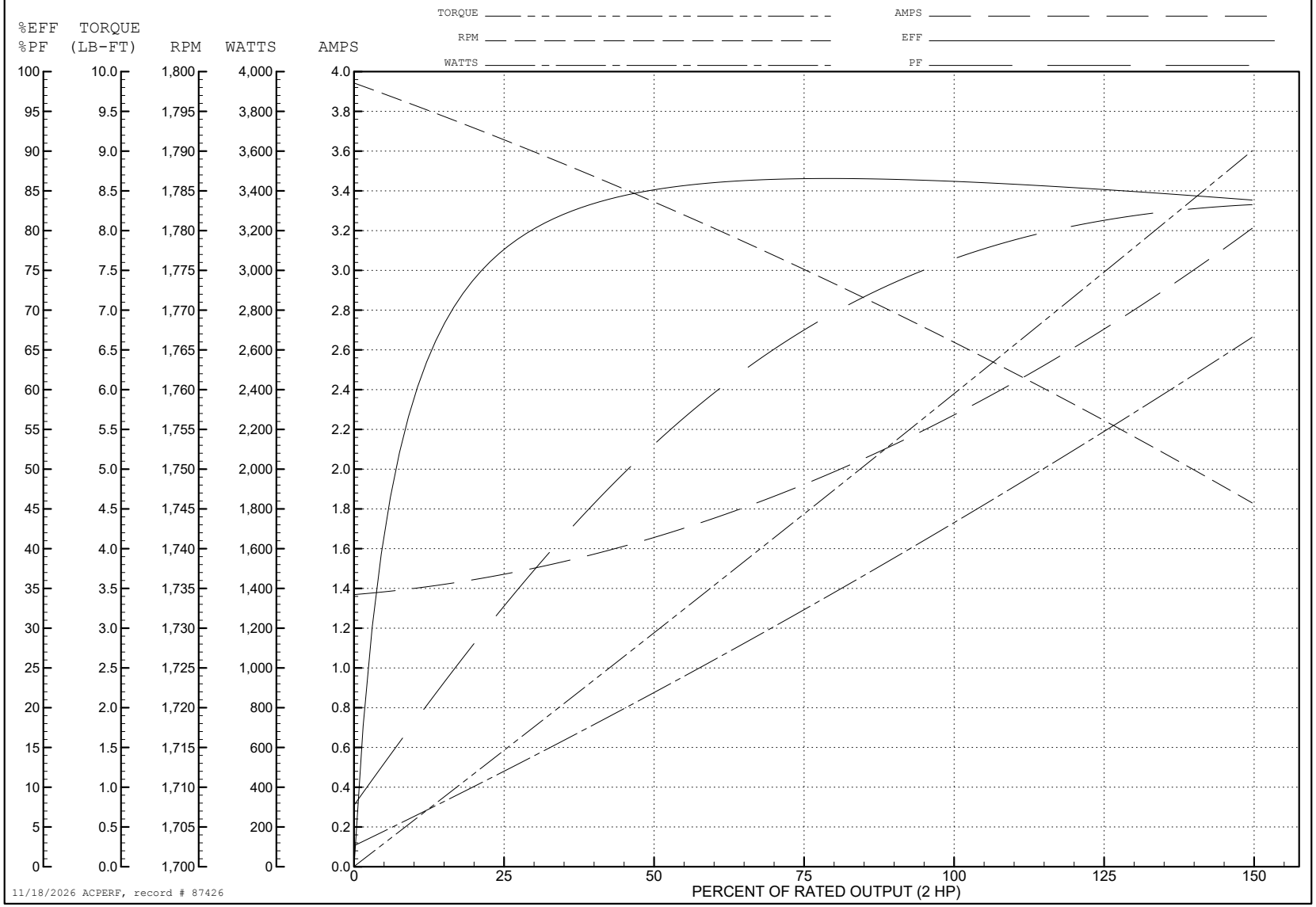
ABB Motors and Mechanical Inc.

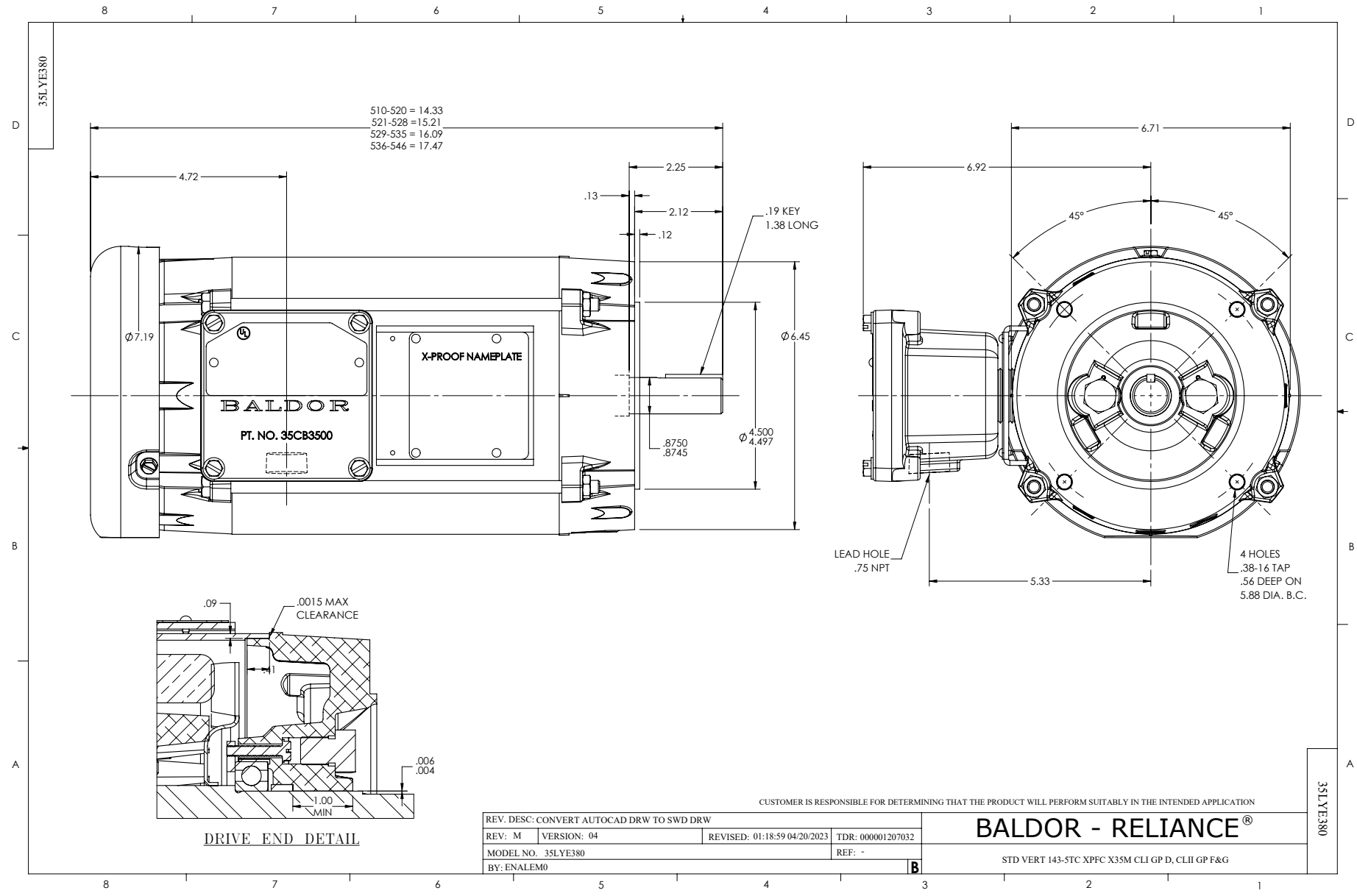
WINDING # 35WGG113

2 HP 3 PH 60 HZ 1764 RPM 575 V 3528M

Typical performance - not guaranteed values.

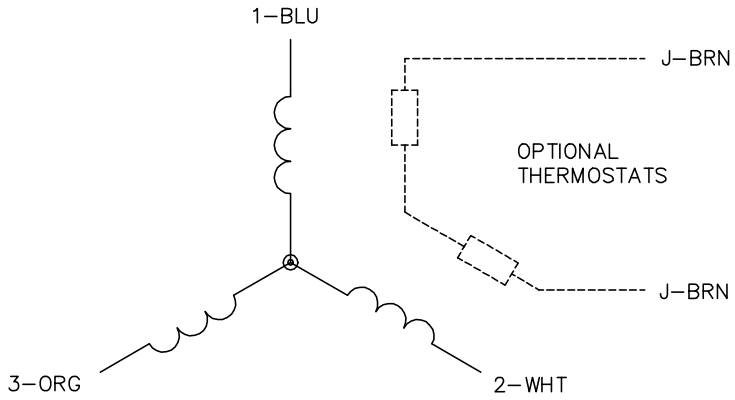
TORQUES(LB-FT): PO=23.7 PU=14.43 LR=17.45 LRA=19.89

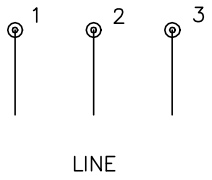



35LYE380
510-520 = 14.33
521-528 =15.21
529-535 = 16.09
536-546 = 17.47
4.72
2.25
.13
2.12
.12
.19 KEY
1.38 LONG
Ø7.19
Ø6.45
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
.8750
.8745
Ø4.500
4.497
6.71
6.92
45°
45°
LEAD HOLE
.75 NPT
5.33
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE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

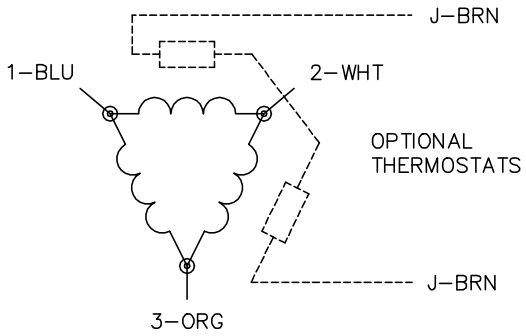
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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