ABB BALDOR RELIANCE

Customer information packet

XM05122-5

1HP, 3450RPM, 3PH, 60HZ, 56, 3516M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56
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	1.000 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	1.100 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	1.1 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGT463
Layout	35LYE354
Eff. date	04-08-2021
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	03-26-2021

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	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.28 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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.	35-0000-1098	**INV.TYPE**	PWM				
CAT.NO.	XM05122-5	**C HP FR**	60	**C HP TO**	90		
HP	1	**CT HZ FROM**	6			**CT HZ TO**	60
VOLTS	575	**VT HZ FROM**	6			**VT HZ TO**	60
AMPS	1.1	**MAG CUR**	.5				
RPM	3450	**MX RPM**	5400				
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	84
SER.F.	1.00	**DES**	B	**SL HZ**	2	**WK2**	0.05
FRAME	56	**RATING**	40C AMB-CONT				
	NEMA MG-1 PART 5, IP54						
	1.15 SF ON SINE WAVE						

AC Induction Motor Performance Data
Record # 83957
Typical performance - not guaranteed values

Winding: 35WGT463-R006	**Type:** 3516M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.1	**Breakdown Torque**	6.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	4.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	9.7 A
Service Factor (S.F.)			1	**No-load Current**	0.54 A
NEMA Nom. Eff.	84	**Power Factor**	82	**Line-line Res. @ 25ºC**	24.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
				Locked-rotor Power Factor	56.4
				Rotor inertia	0.0443 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	45	65	77	83	87	87
Efficiency	70.3	80.5	83.9	84.6	84.6	83.7
Speed	3567	3539	3510	3479	3446	3410
Line amperes	0.6	0.72	0.87	1.06	1.25	1.5

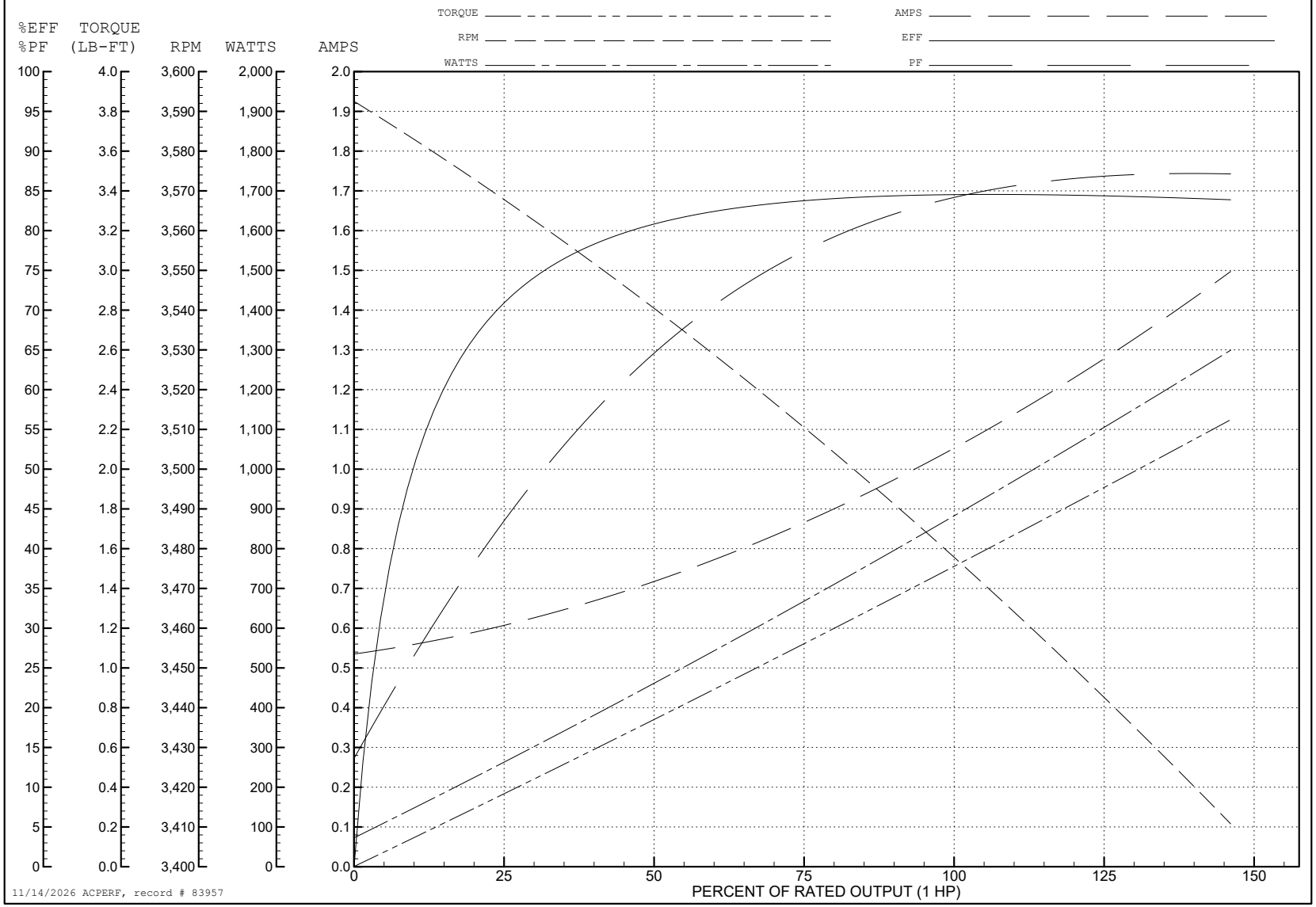
ABB Motors and Mechanical Inc.

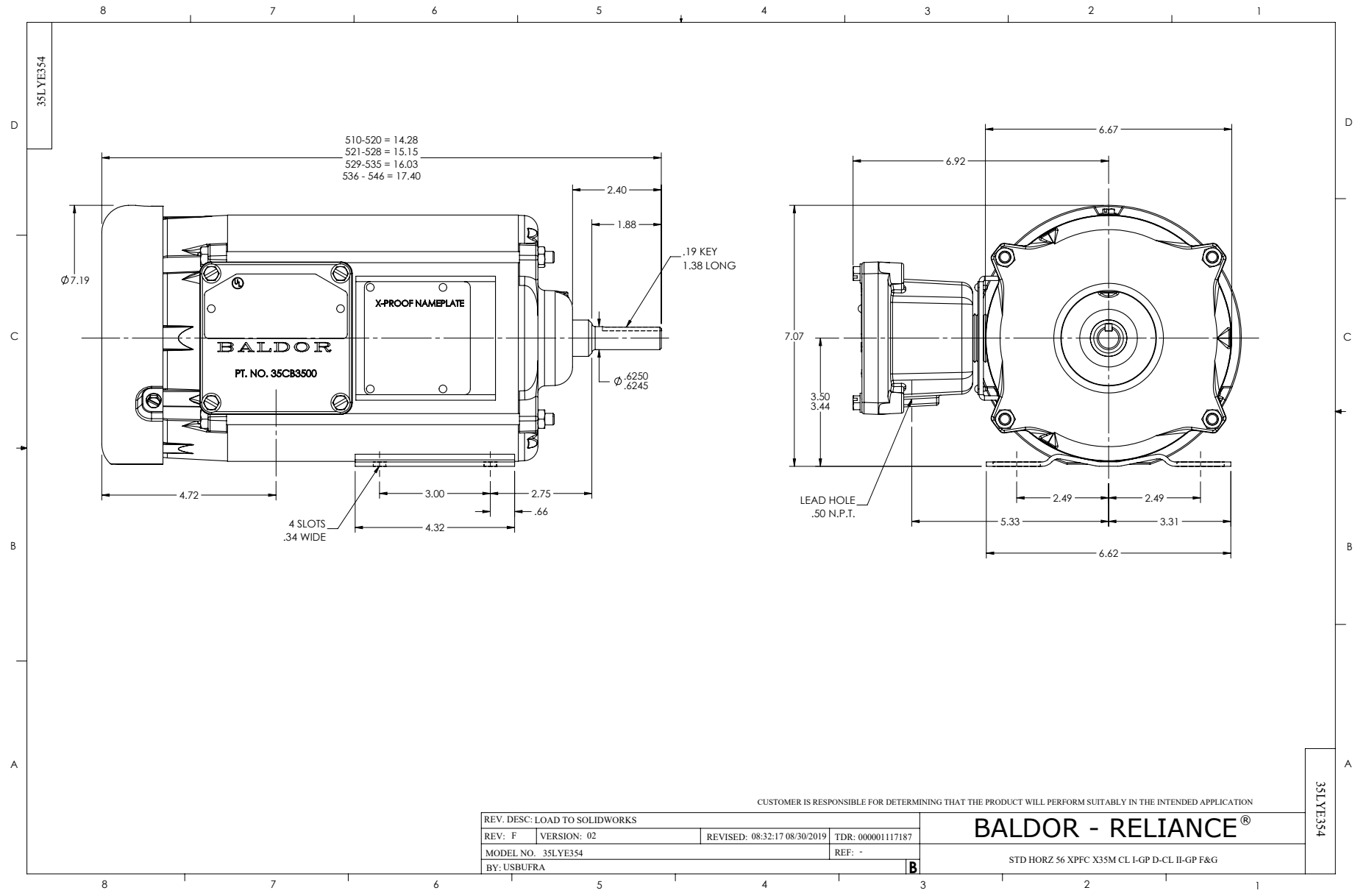
WINDING # 35WGT463

1 HP 3 PH 60 HZ 3450 RPM 575 V 3516M

Typical performance - not guaranteed values.

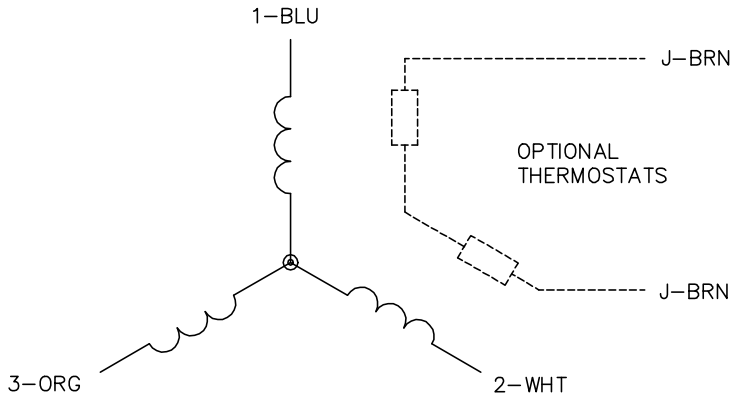
TORQUES(LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=9.7

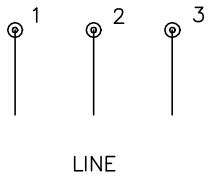



35LYE354
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536 - 546 = 17.40
2.40
1.88
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
6.67
6.92
7.07
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.33
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: F
VERSION: 02
REVISED: 08:32:17 08/30/2019
TDR: 000001117187
MODEL NO. 35LYE354
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 XPFC X35M CL I-GP D-CL II-GP F&G
35LYE354

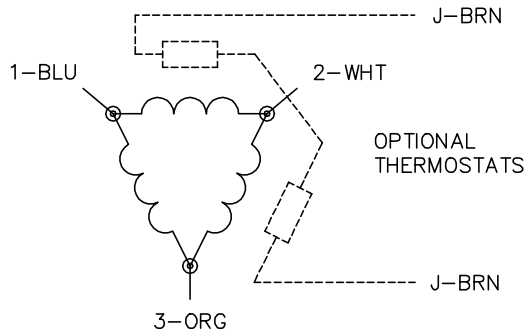
CD0006

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