ABB BALDOR RELIANCE

Customer information packet

XM18522T-5

5HP, 3450RPM, 3PH, 60HZ, 184T, 3630M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184T
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	5.000 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	4.700 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS505
Layout	36LYP346
Eff. date	03-26-2024
CD Diagram	CD0006
Poles	02
Leads	3#16
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	3630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.42 IN
Power Factor	91
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 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.	36-0000-0512			**INV.TYPE**	PWM						
CAT.NO.	XM18522T-5			**C HP FR**	60	**C HP TO**	90				
HP	5			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	575			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	4.7			**MAG CUR**	1.3						
RPM	3450			**MX RPM**	5400						
HZ	60	**PH**	3	**CL**	F	**NOM.EFF.**	88.5				
SER.F.	1.00	**DES**	A	**SL HZ**	2.3	**WK2**	0.14				
FRAME	184T	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 36909
Typical performance - not guaranteed values

Winding: 36WGS505-R002	**Type:** 3630M	**Enclosure:** XPFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.64 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			4.7	**Breakdown Torque**	33.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	23.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.5 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	45.7 A
Service Factor (S.F.)			1	**No-load Current**	1.34 A
NEMA Nom. Eff.	88.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	3.58 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
				Locked-rotor Power Factor	45
				Rotor inertia	0.134 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	63	81	88	91	93	93
Efficiency	83.2	88.4	89.1	88.3	87	85.8
Speed	3569	3537	3504	3466	3428	3385
Line amperes	1.79	2.61	3.58	4.68	5.81	7.05

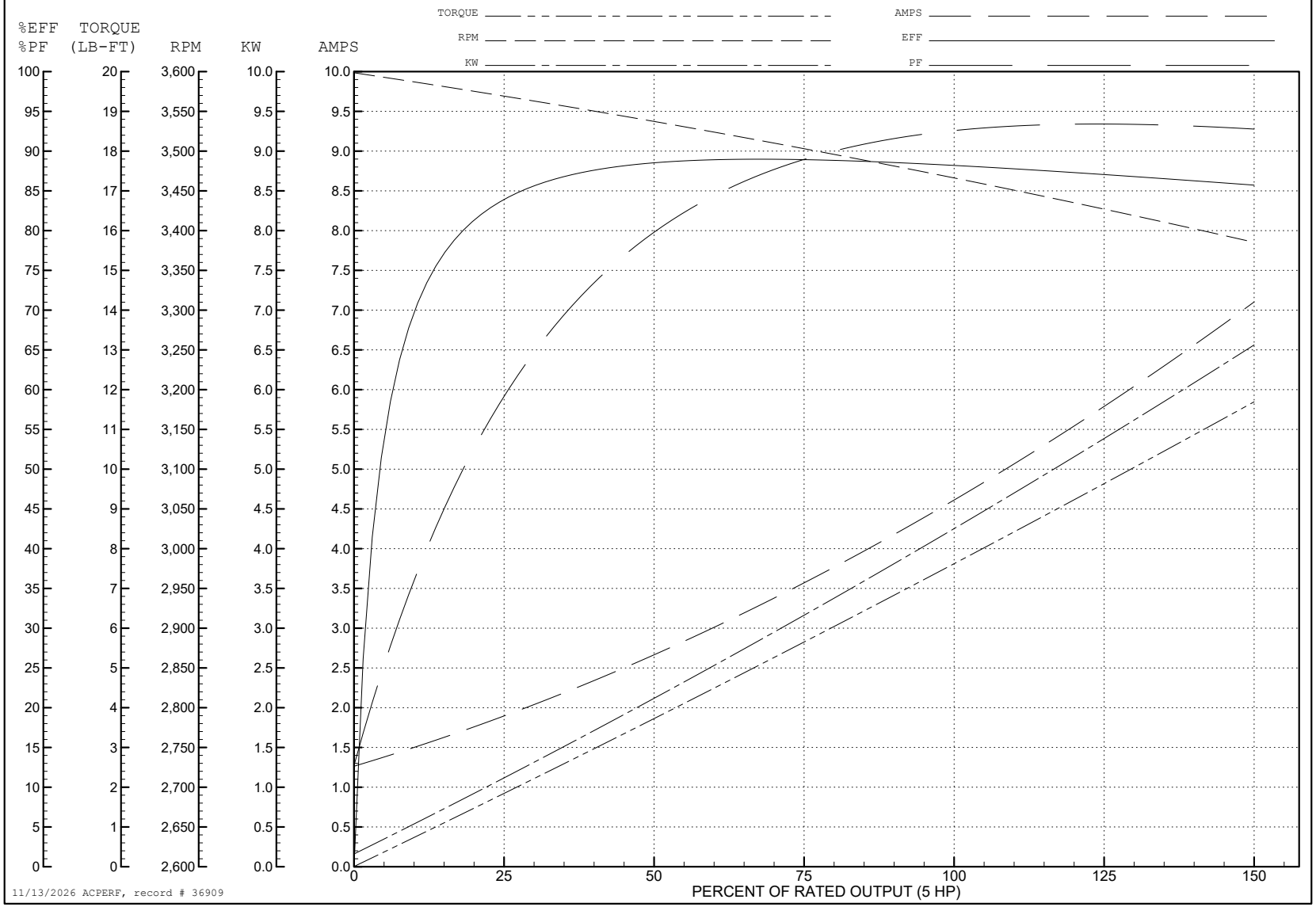
ABB Motors and Mechanical Inc.

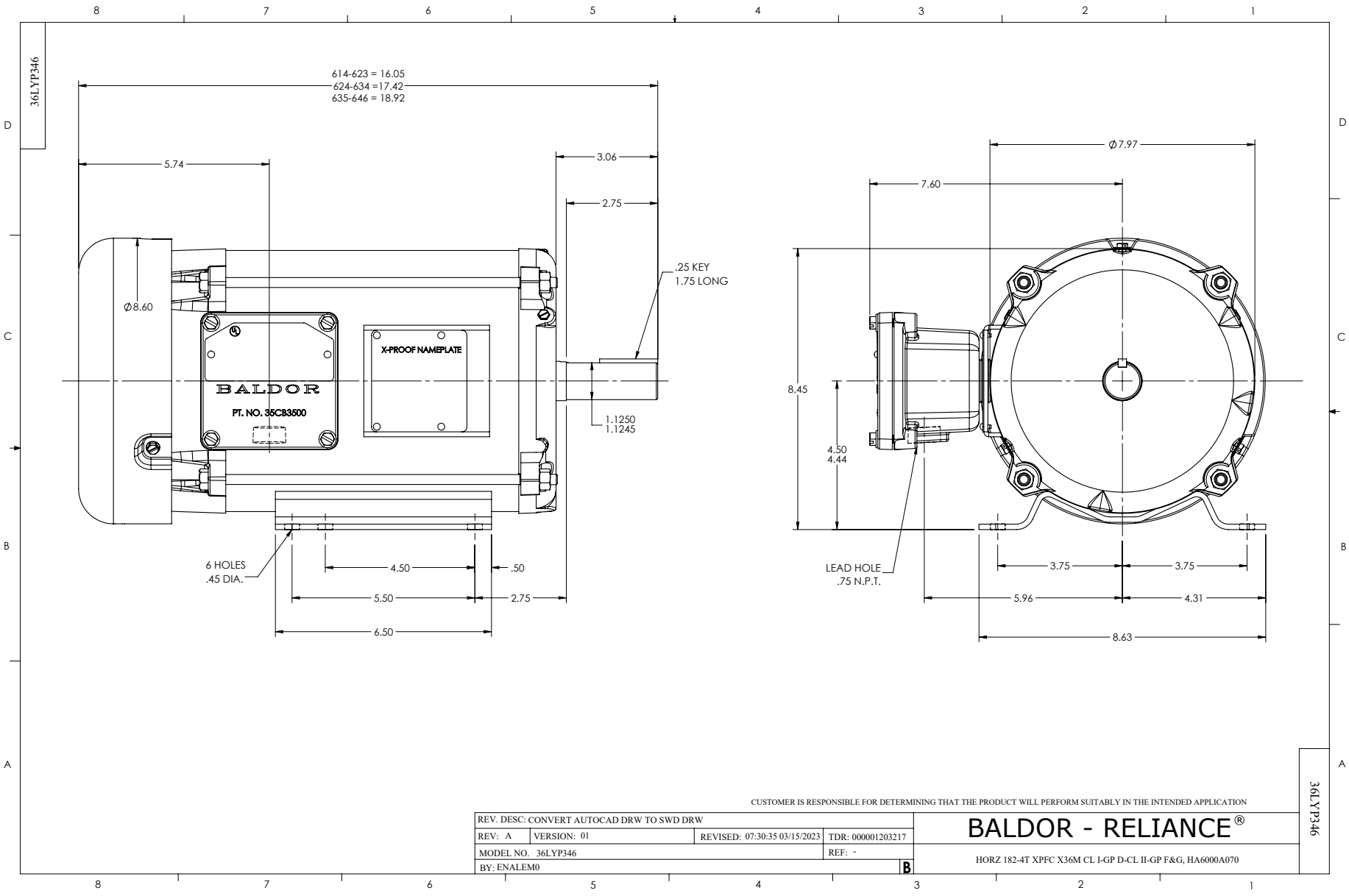
WINDING # 36WGS505

5 HP 3 PH 60 HZ 3450 RPM 575 V 3630M

Typical performance - not guaranteed values.

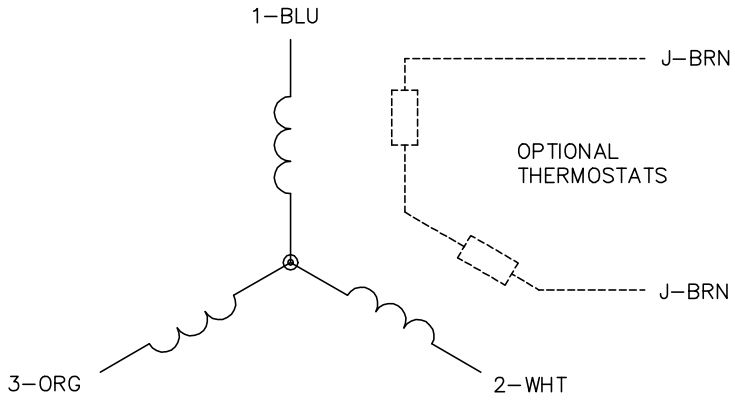
TORQUES(LB-FT): PO=33.7 PU=23.5 LR=27.5 LRA=45.7

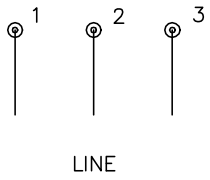



36LYP346
614-623 = 16.05
624-634 =17.42
635-646 = 18.92
5.74
3.06
2.75
.25 KEY
1.75 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
1.1250
1.1245
6 HOLES
.45 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.97
7.60
8.45
4.50
4.44
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.96
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 07:30:35 03/15/2023
TDR: 000001203217
MODEL NO. 36LYP346
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 182-4T XPFC X36M CL I-GP D-CL II-GP F&G, HA6000A070
36LYP346

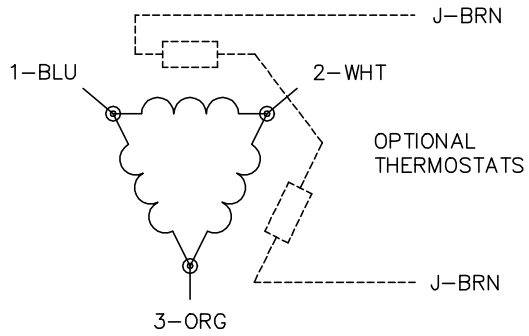
CD0006

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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