ABB BALDOR RELIANCE

Customer information packet

VXM18522T

5//3HP, 3470//2870RPM, 3PH, 60//50HZ, 184TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184TC
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	5.000 HP @ 60 HZ
	3.000 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	11.200 A @ 230.0 V
	4.200 A @ 380.0 V
	5.600 A @ 460.0 V
	8.400 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGT860
Layout	36LYQ330
Eff. date	10-16-2023
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	03-24-2021

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 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	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.86 IN
Power Factor	94
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3470 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.	36-0000-0475			**INV.TYPE**	PWM					
CAT.NO.	VXM18522T			**C HP FR**	60	**C HP TO**	90			
HP	5//3			**CT HZ FROM**	6			**CT HZ TO**	60	
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60	
AMPS	11.2/5.6//8.4/4.2			**MAG CUR**	3.2/1.6					
RPM	3470//2870			**MX RPM**	5400					
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5			
SER.F.	1.00	**DES**	A	**SL HZ**	2.2	**WK2**	0.15			
FRAME	184TC	**RATING**	40C AMB-CONT							
	NEMA MG-1 PART 5, IP54									
	1.15 SF ON SINE WAVE									

AC Induction Motor Performance Data
Record # 73675
Typical performance - not guaranteed values

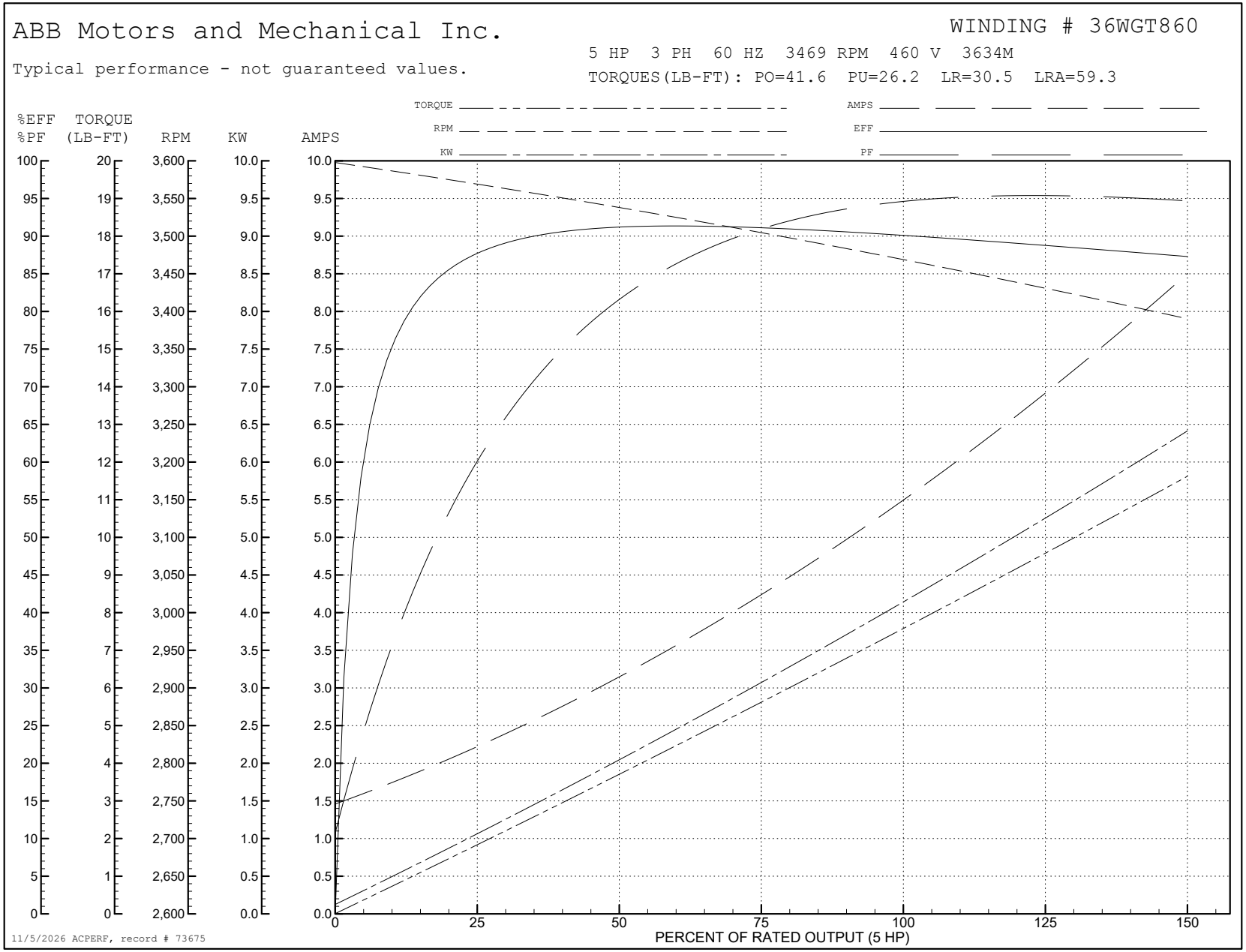
Winding: 36WGT860-R067	**Type:** 3634M	**Enclosure:** XPFC

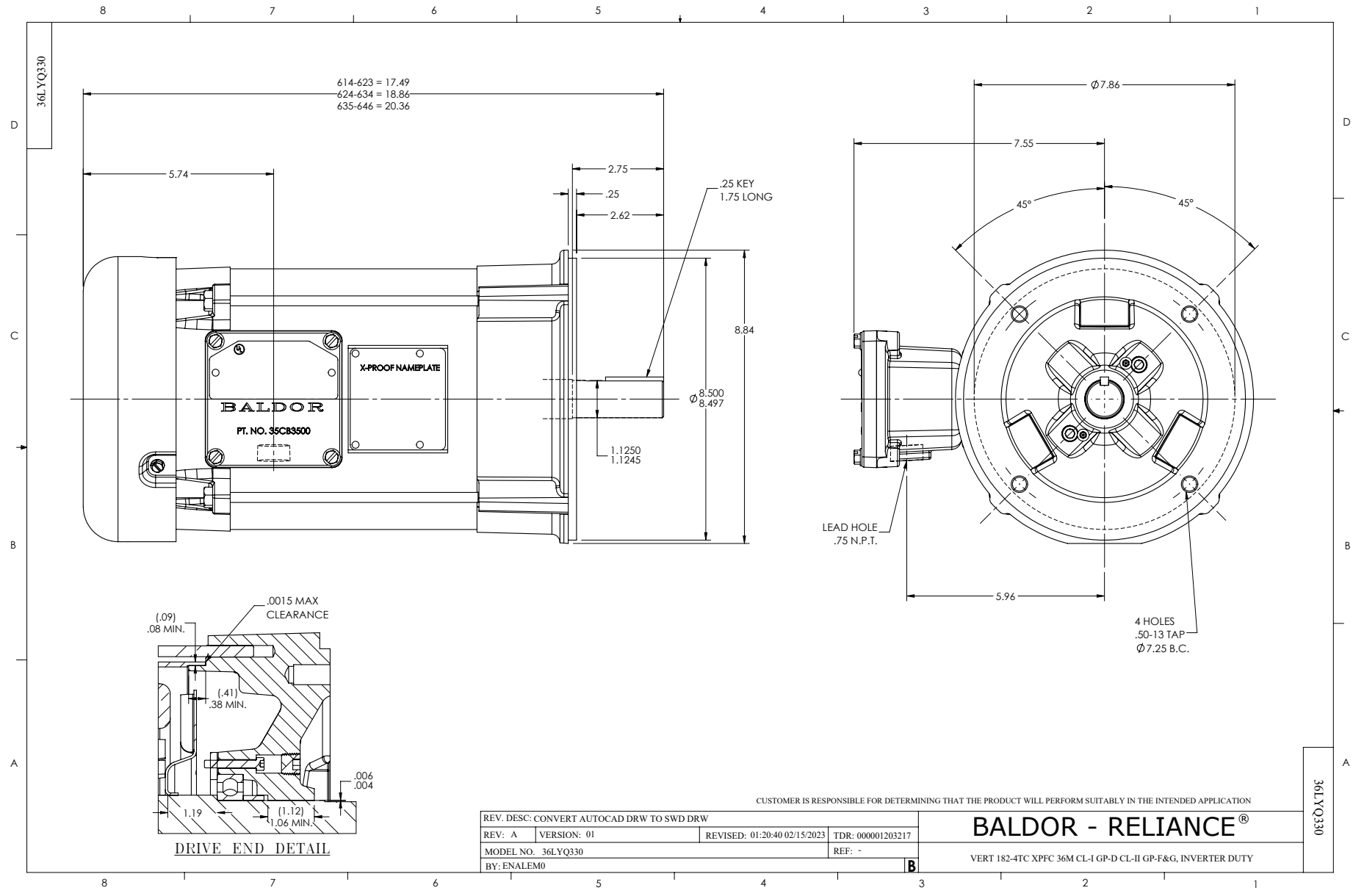
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			11.2/5.6//8.4/4.2
R.P.M.			3470//2870
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	94
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	7.66 LB-FT
Start Configuration	direct on line
Breakdown Torque	41.6 LB-FT
Pull-up Torque	26.2 LB-FT
Locked-rotor Torque	30.5 LB-FT
Starting Current	59.3 A
No-load Current	1.55 A
Line-line Res. @ 25ºC	2.2 Ω
Temp. Rise @ Rated Load	59°C
Locked-rotor Power Factor	42.9
Rotor inertia	0.152 LB-FT2

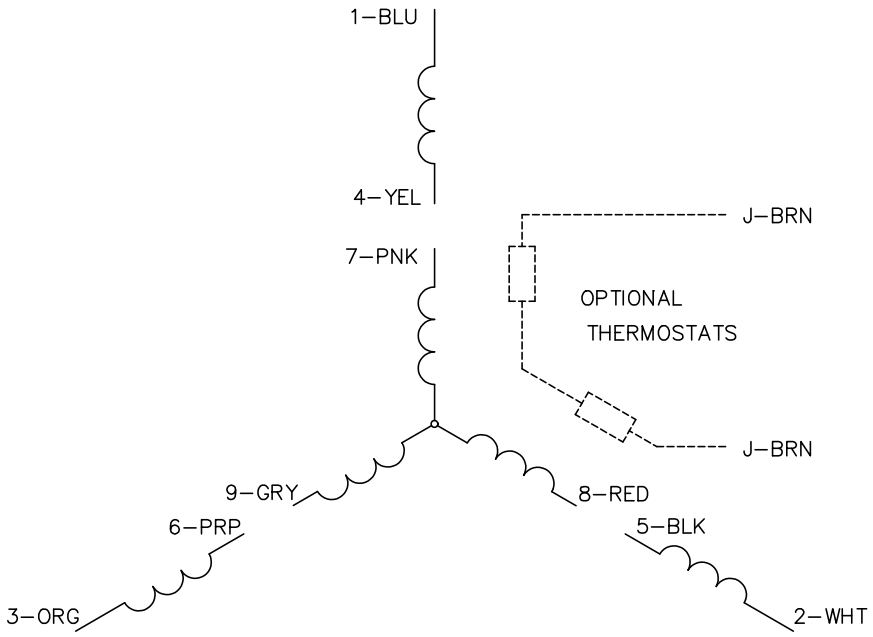
Load Characteristics 460 V, 60 Hz, 5 HP

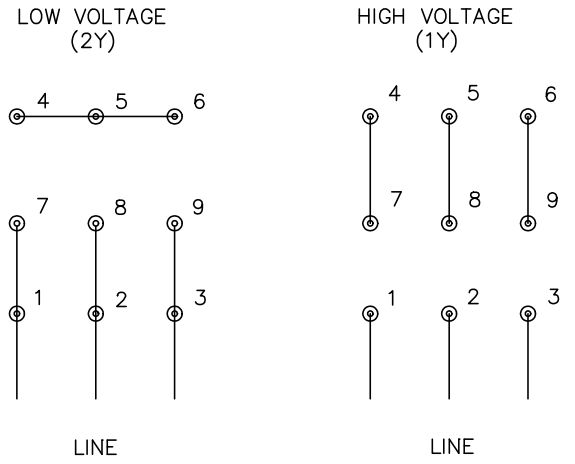
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	65	83	90	94	95	95
Efficiency	87.4	90.6	90.8	90.5	88.9	87.1
Speed	3567	3536	3503	3469	3431	3389
Line amperes	2.1	3.14	4.37	5.56	6.98	8.46


ABB Motors and Mechanical Inc.
WINDING # 36WGT860
5 HP 3 PH 60 HZ 3469 RPM 460 V 3634M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=41.6 PU=26.2 LR=30.5 LRA=59.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/5/2026 ACPERF, record # 73675


36LYQ330
614-623 = 17.49
624-634 = 18.86
635-646 = 20.36
5.74
2.75
.25
2.62
.25 KEY
1.75 LONG
8.84
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø8.500
8.497
1.1250
1.1245
Ø7.86
7.55
45°
45°
LEAD HOLE
.75 N.P.T.
5.96
4 HOLES
.50-13 TAP
Ø7.25 B.C.
.0015 MAX
CLEARANCE
(.09)
.08 MIN.
(.41)
.38 MIN.
.006
.004
1.19
(1.12)
1.06 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: A
VERSION: 01
REVISED: 01:20:40 02/15/2023
TDR: 000001203217
MODEL NO. 36LYQ330
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 182-4TC XPFC 36M CL-I GP-D CL-II GP-F&G, INVERTER DUTY
36LYQ330

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