

ABB BALDOR RELIANCE III

Customer information packet

VXM18522T

5//3HP, 3470//2870RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

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				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5//3		Full Load Torque		7.66 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		11.2/5.6//8.4/4.2		Breakdown Torque		41.6 LB-FT		
R.P.M.		3470//2870		Pull-up Torque		26.2 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		30.5 LB-FT	
NEMA Design Code		A		KVA Code	L	Starting Current		59.3 A
Service Factor (S.F.)		1		No-load Current		1.55 A		
NEMA Nom. Eff.		89.5	Power Factor		94	Line-line Res. @ 25°C		2.2 Ω
Rating - Duty		40C AMB-CONT		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

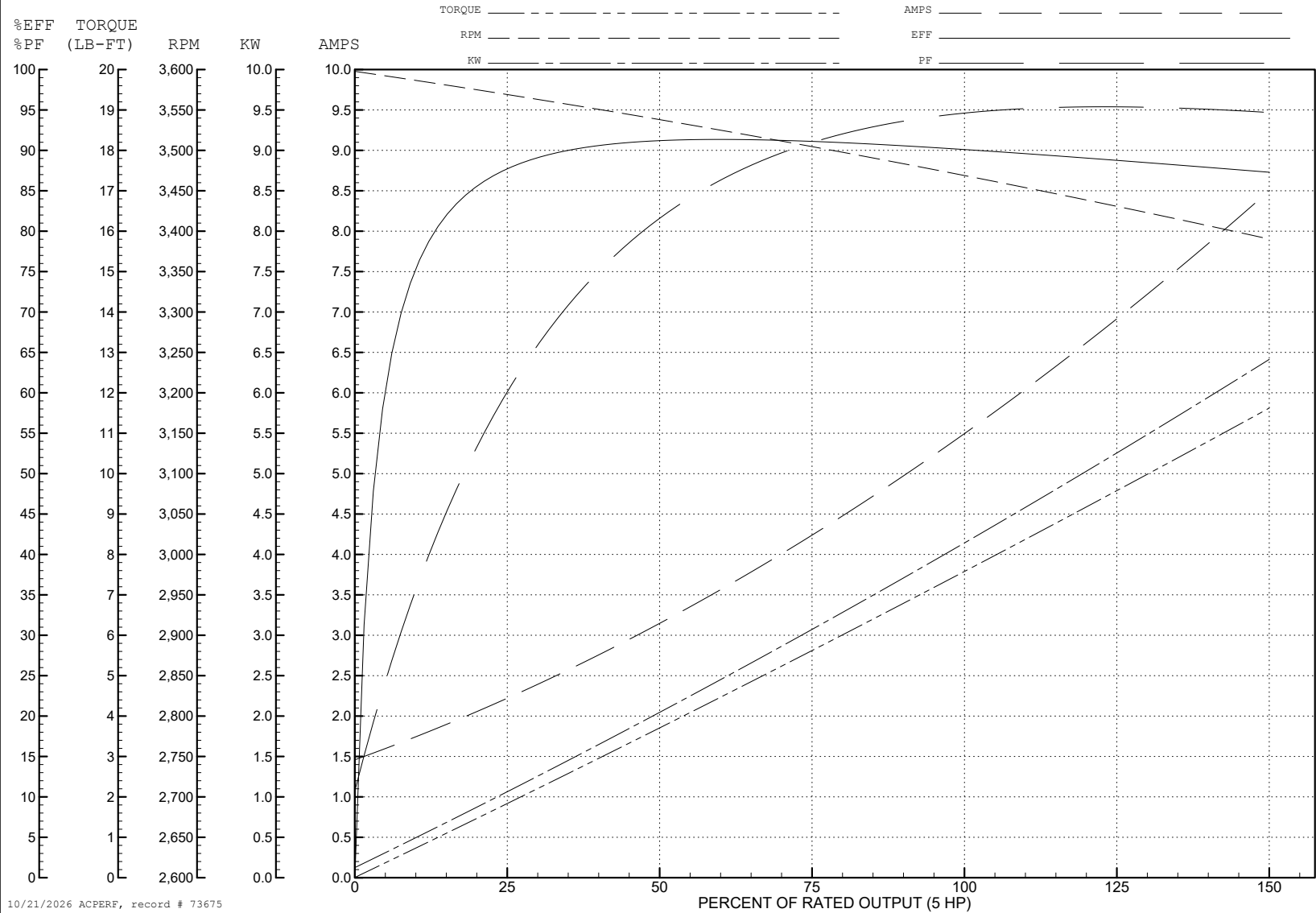
ABB Motors and Mechanical Inc.

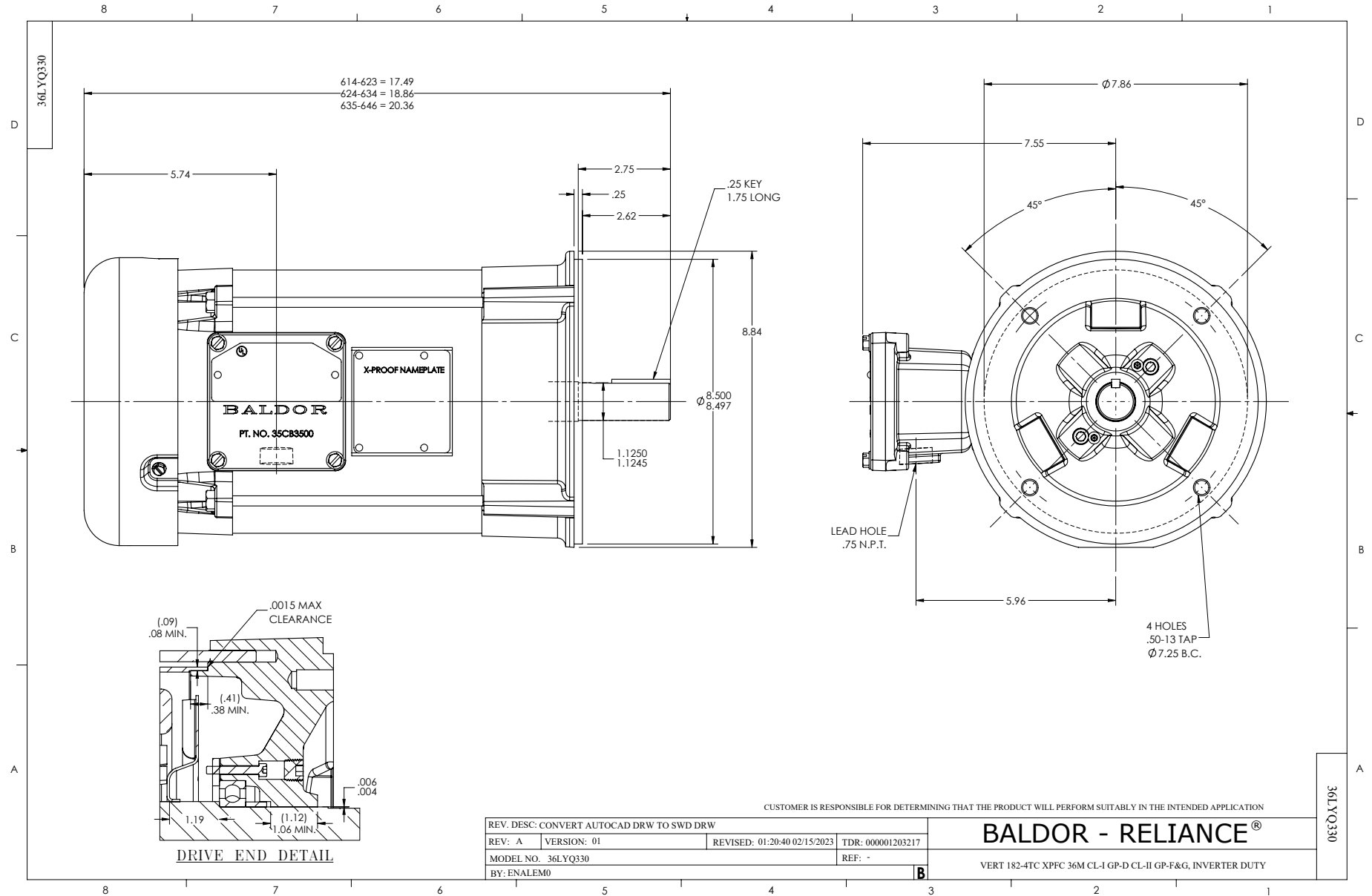
WINDING # 36WGT860

Typical performance - not guaranteed values.

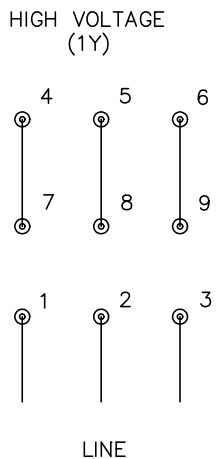
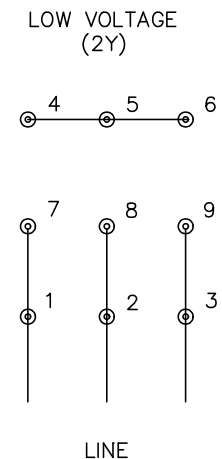
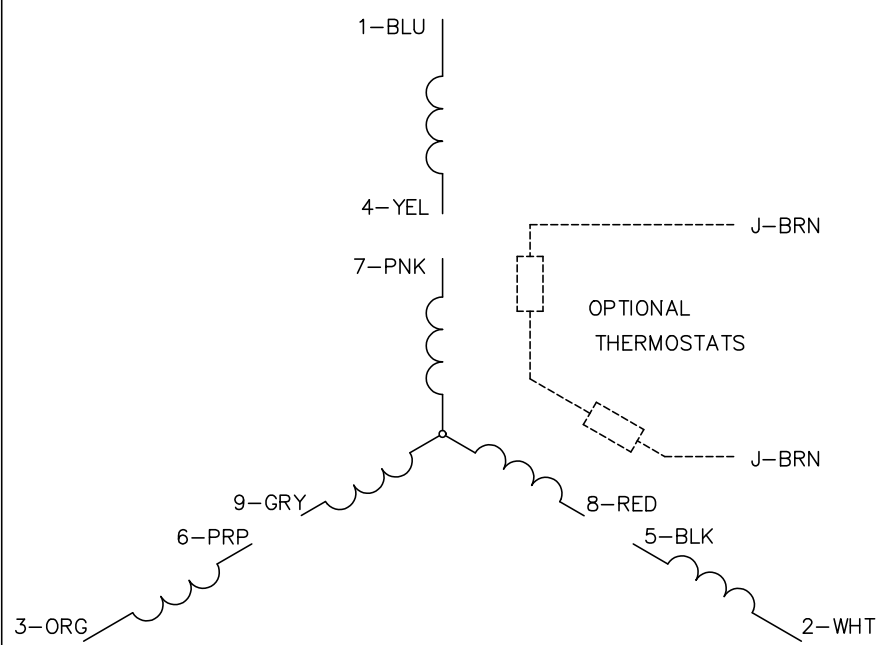
5 HP 3 PH 60 HZ 3469 RPM 460 V 3634M

TORQUES (LB-FT): PO=41.6 PU=26.2 LR=30.5 LRA=59.3





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005