ABB BALDOR RELIANCE

Customer information packet

VXM18542T

5//3HP, 1750//1450RPM, 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	3.000 HP @ 50 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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	30
Current @ Voltage	7.100 A @ 460.0 V
	5.600 A @ 380.0 V
	14.200 A @ 230.0 V
	11.200 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	36Q330
Base	
Status	PRD/A
Elec. spec.	36WGR866
Layout	36LYQ330
Eff. date	09-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-02-2026

Efficiency @ 100% Load	89.5 %
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	5.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.86 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm
	1750 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.	36Q330R866G1			**INV.TYPE**	PWM						
CAT.NO.	VXM18542T			**C HP FR**	60	**C HP TO**	90				
HP	5//3			**CT HZ FROM**	30			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	14.2/7.1//11.2/5.6			**MAG CUR**	3.4/1.7						
RPM	1750//1450			**MX RPM**	2700						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	89.5				
SER.F.	1.00	**DES**	A	**SL HZ**	1.4	**WK2**	0.428				
FRAME	184TC	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 106194
Typical performance - not guaranteed values

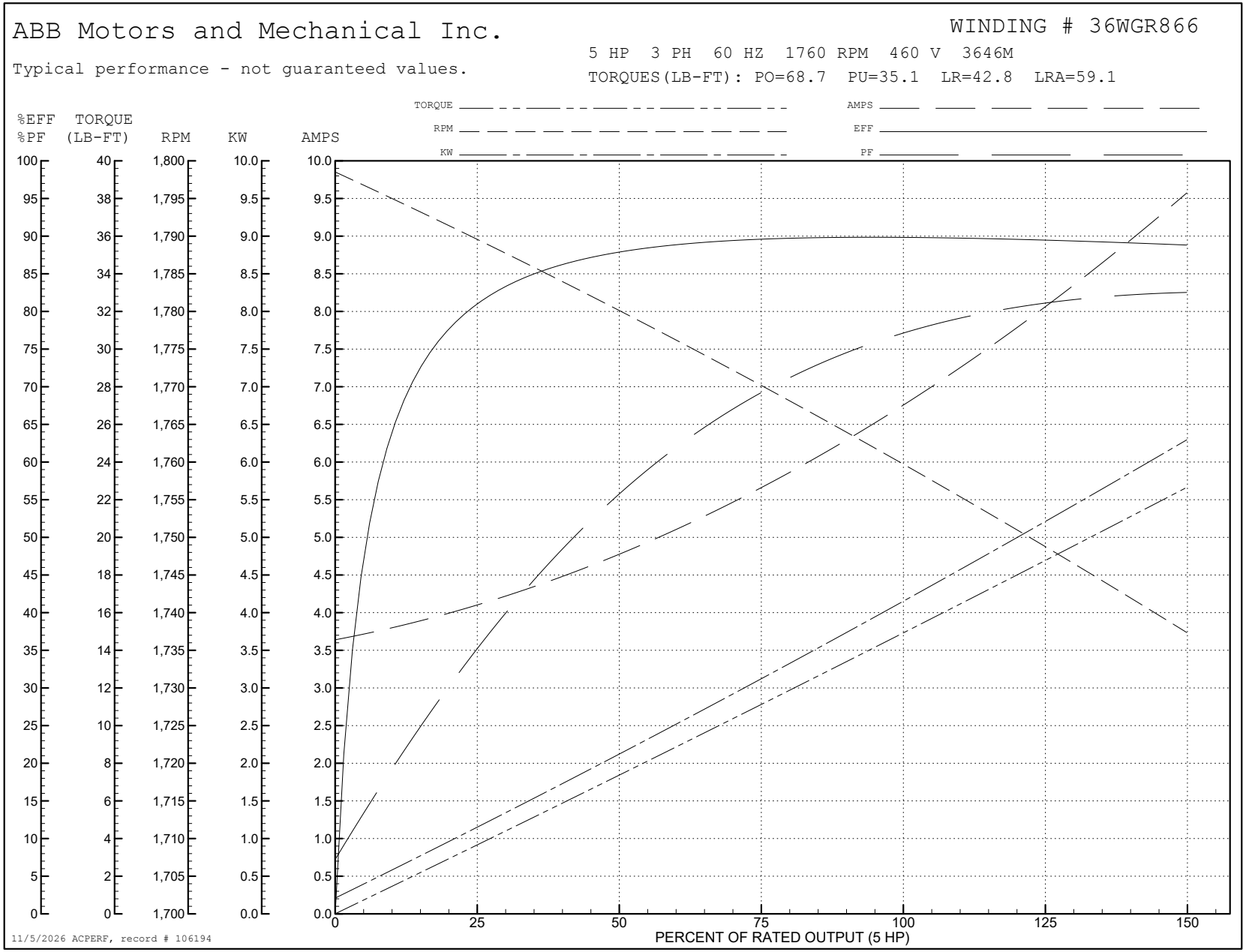
Winding: 36WGR866-R028	**Type:** 3646M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			14.2/7.1//11.2/5.6
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	14.92 LB-FT
Start Configuration	direct on line
Breakdown Torque	68.7 LB-FT
Pull-up Torque	35.1 LB-FT
Locked-rotor Torque	42.8 LB-FT
Starting Current	59.1 A
No-load Current	3.71 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	58°C
Locked-rotor Power Factor	39.7
Rotor inertia	0.428 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	36	57	69	76	81	83
Efficiency	80.6	87.7	89.6	89.8	89.5	88.7
Speed	1789	1780	1770	1760	1749	1737
Line amperes	4.01	4.72	5.7	6.83	8.1	9.53


ABB Motors and Mechanical Inc.
WINDING # 36WGR866
5 HP 3 PH 60 HZ 1760 RPM 460 V 3646M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=68.7 PU=35.1 LR=42.8 LRA=59.1
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 # 106194

AC Induction Motor Performance Data
Record # 116724
Typical performance - not guaranteed values

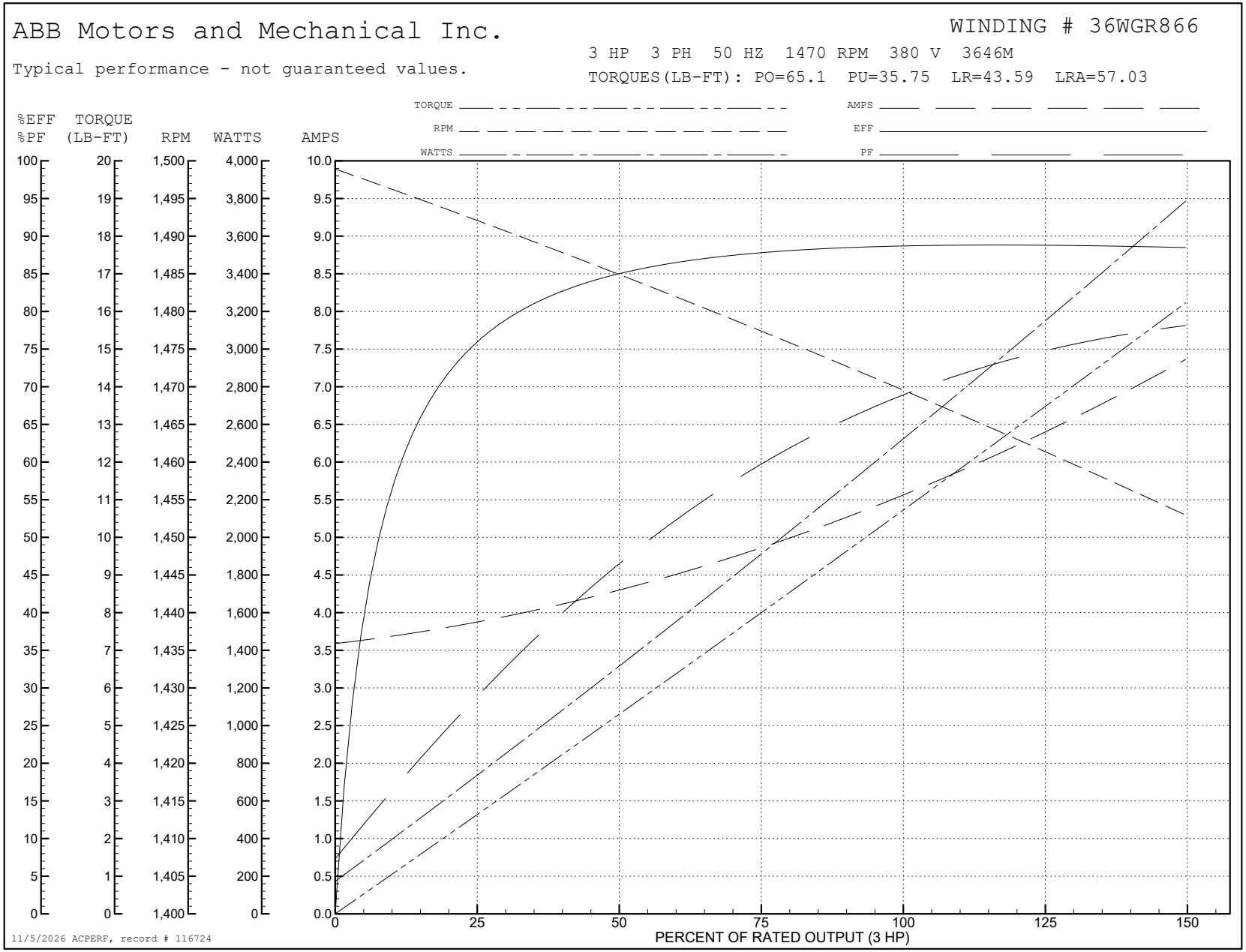
Winding: 36WGR866-R028	**Type:** 3646M	**Enclosure:** XPFC

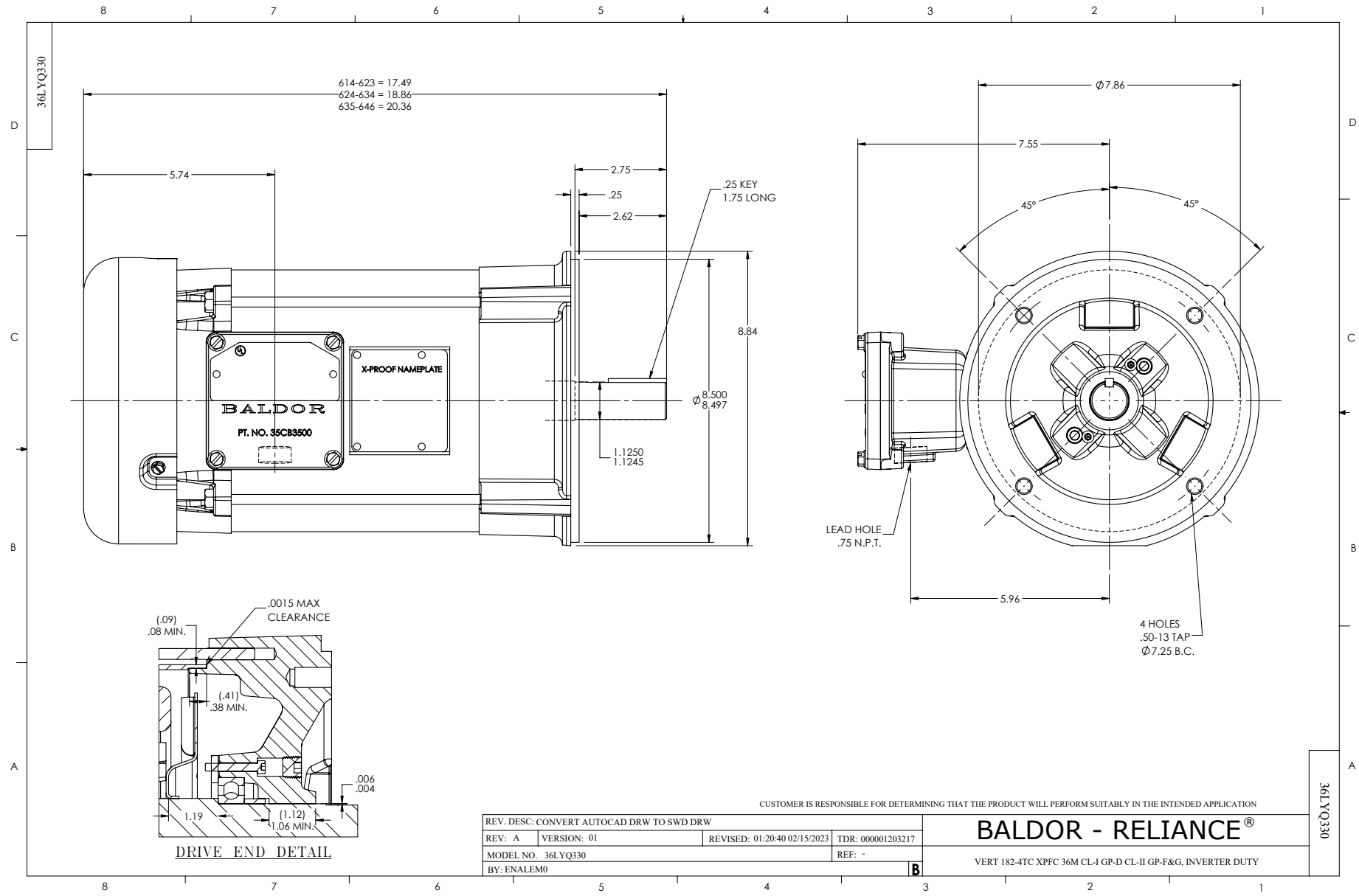
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			14.2/7.1//11.2/5.6
R.P.M.			1750//1450
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	10.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	65.1 LB-FT
Pull-up Torque	35.75 LB-FT
Locked-rotor Torque	43.59 LB-FT
Starting Current	57.03 A
No-load Current	3.63 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	42°C
Locked-rotor Power Factor	44
Rotor inertia	0.428 lb-ft²

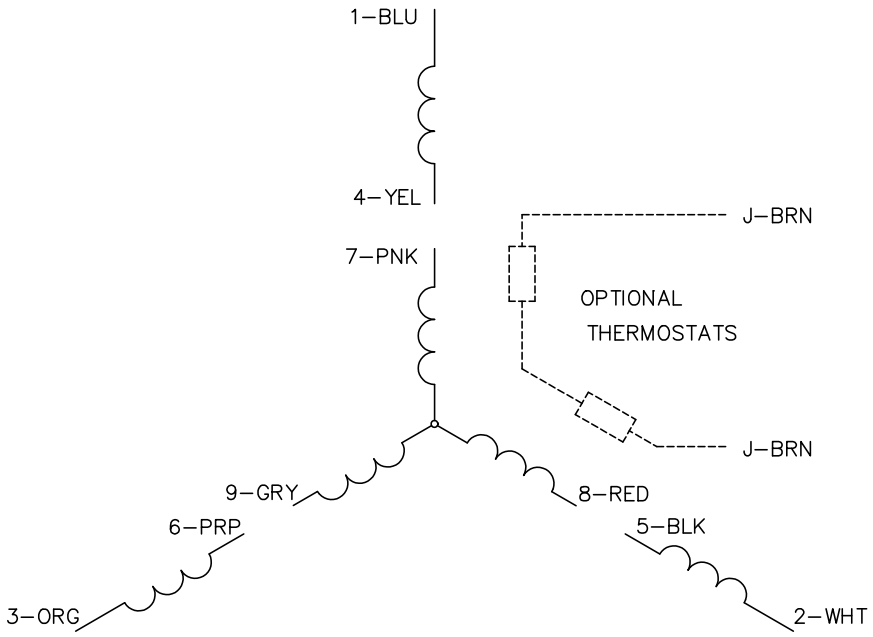
Load Characteristics 380 V, 50 Hz, 3 HP

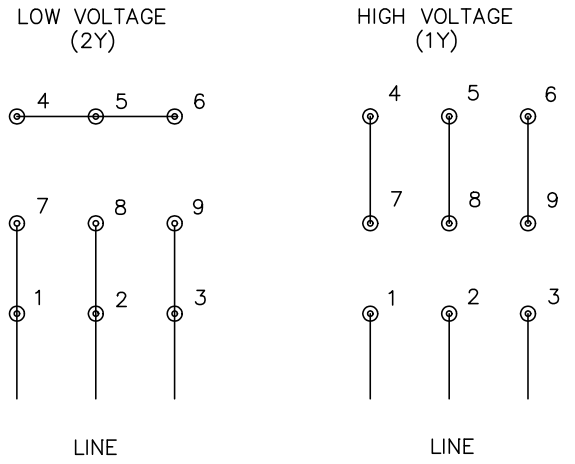
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	47	60	68	75	78
Efficiency	75.9	84.9	87.8	88.7	88.8	88.4
Speed	1492	1485	1477	1470	1461	1453
Line amperes	3.82	4.27	4.89	5.6	6.42	7.34


ABB Motors and Mechanical Inc.
WINDING # 36WGR866
Typical performance - not guaranteed values.
3 HP 3 PH 50 HZ 1470 RPM 380 V 3646M
TORQUES(LB-FT): PO=65.1 PU=35.75 LR=43.59 LRA=57.03
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 116724


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