ABB BALDOR RELIANCE

Customer information packet

VXM141562T

1.5//1HP, 1165//970RPM, 3PH, 60//50HZ, 145TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	145TC
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	1.500 HP @ 60 HZ
	1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	2.100 A @ 380.0 V
	2.400 A @ 460.0 V
	4.200 A @ 190.0 V
	4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS916
Layout	36LYT390
Eff. date	01-27-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	03-11-2021

Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	B
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.42 IN
Power Factor	67
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1165 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T2C						
SPEC.	36-0000-0481			**INV.TYPE**	PWM						
CAT.NO.	VXM141562T			**C HP FR**	60	**C HP TO**	90				
HP	1.5//1			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	4.8/2.4//4.2/2.1			**MAG CUR**	3/1.5						
RPM	1165//970			**MX RPM**	1800						
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	87.5				
SER.F.	1.00	**DES**	B	**SL HZ**	1.8	**WK2**	0.301				
FRAME	145TC	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data
Record # 73918
Typical performance - not guaranteed values

Winding: 36WGS916-R035	**Type:** 3632M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1.5//1
Volts			230/460//190/380
Full Load Amps			4.8/2.4//4.2/2.1
R.P.M.			1165//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	87.5	**Power Factor**	67
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	6.86 LB-FT
Start Configuration	direct on line
Breakdown Torque	23.8 LB-FT
Pull-up Torque	12.5 LB-FT
Locked-rotor Torque	15.3 LB-FT
Starting Current	15.8 A
No-load Current	1.47 A
Line-line Res. @ 25ºC	7.12 Ω
Temp. Rise @ Rated Load	34°C
Locked-rotor Power Factor	30.1
Rotor inertia	0.301 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	48	60	67	71	74
Efficiency	78.8	85.7	87.6	87.4	86.4	85.4
Speed	1192	1185	1177	1168	1158	1148
Line amperes	1.57	1.77	2.07	2.43	2.88	3.36

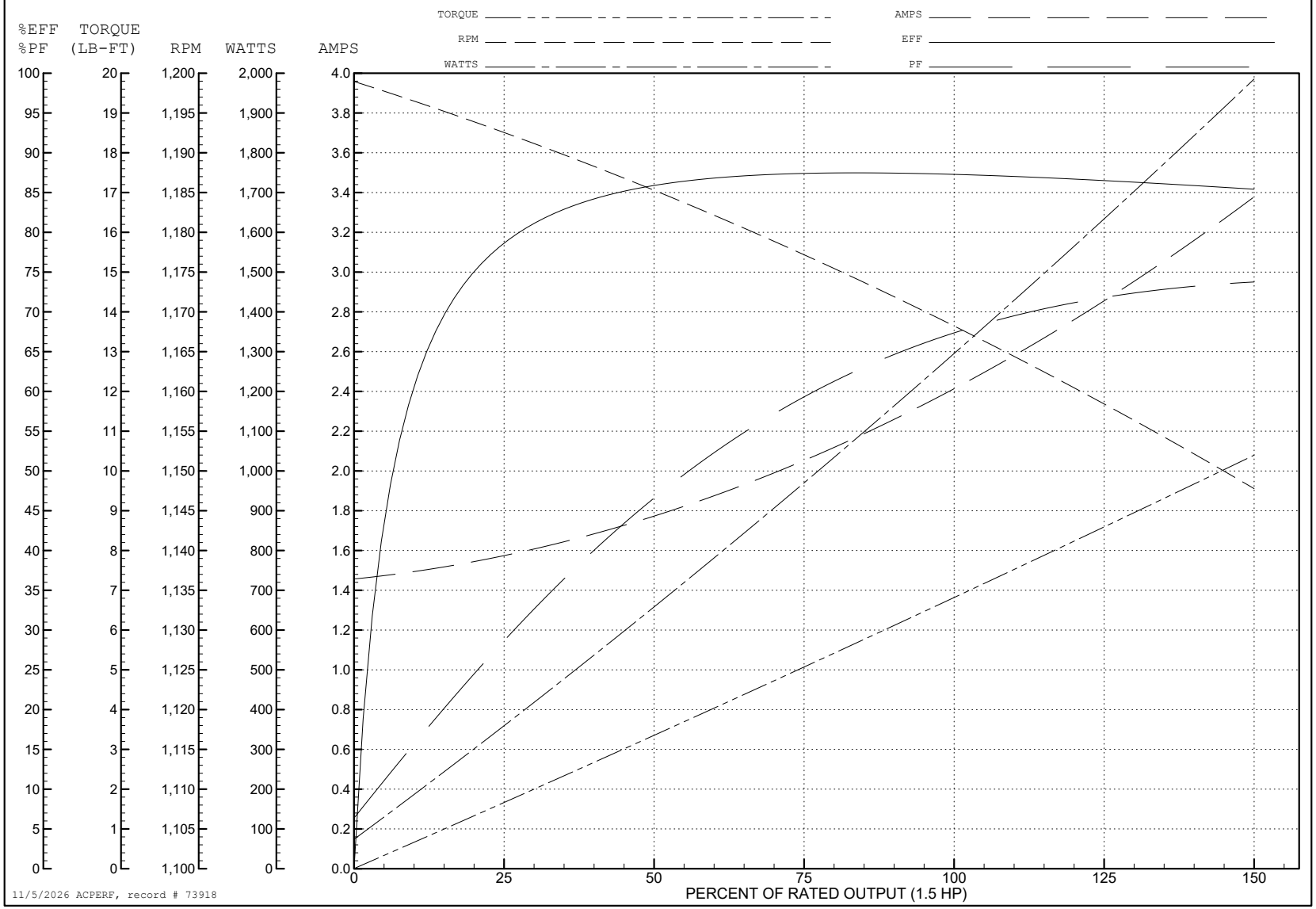
ABB Motors and Mechanical Inc.

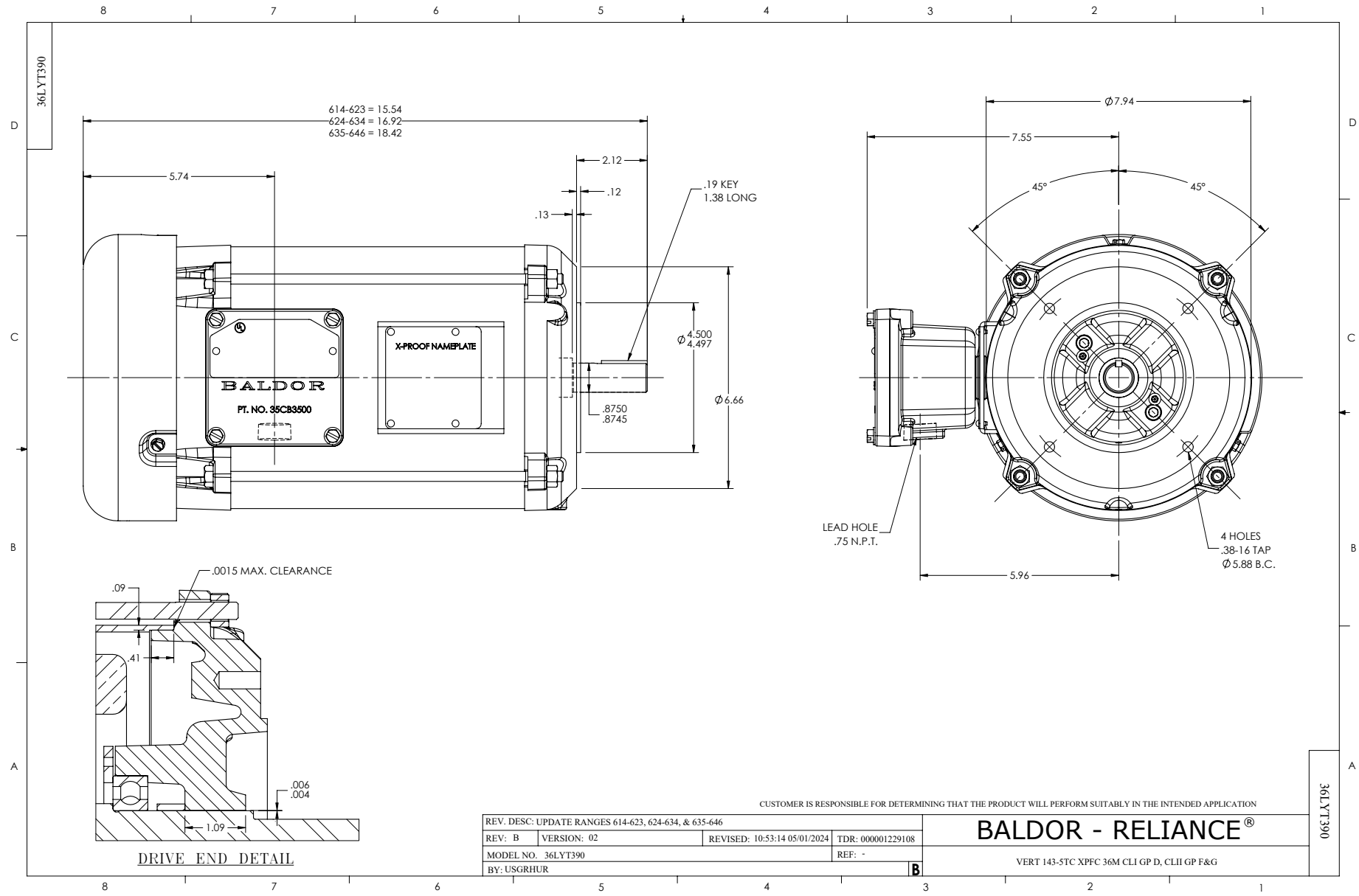
WINDING # 36WGS916

1.5 HP 3 PH 60 HZ 1168 RPM 460 V 3632M

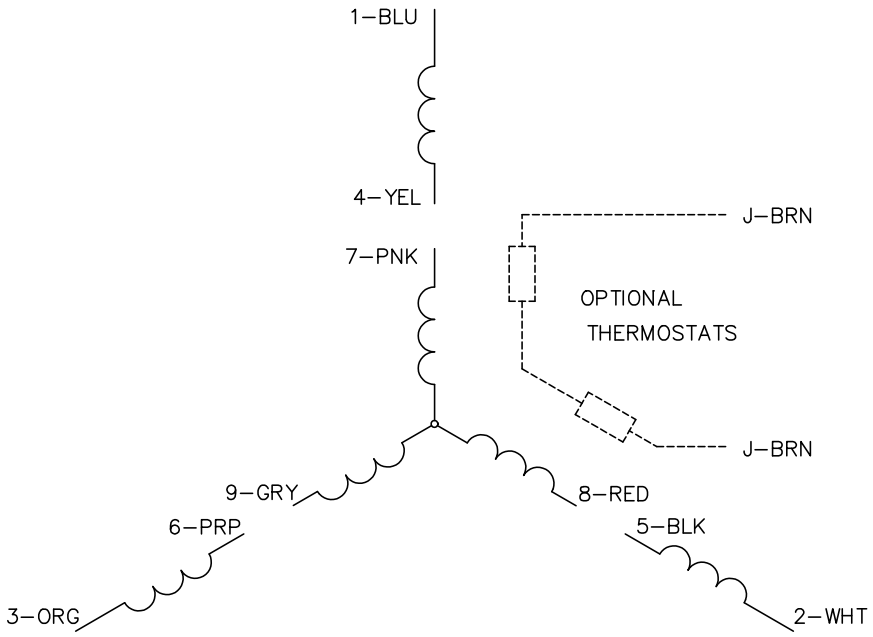
Typical performance - not guaranteed values.

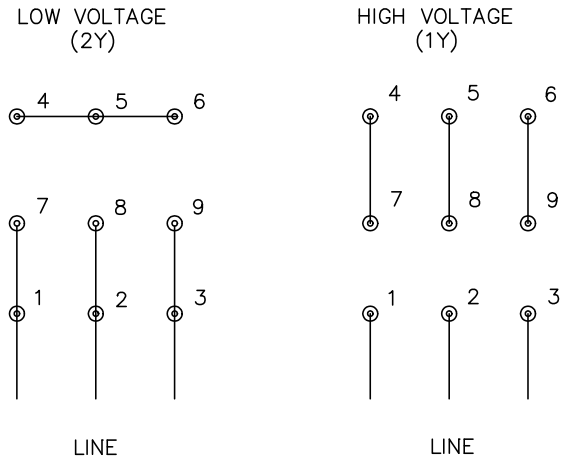
TORQUES(LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8




36LYT390
614-623 = 15.54
624-634 = 16.92
635-646 = 18.42
5.74
2.12
.12
.13
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø 4.500
4.497
Ø6.66
.8750
.8745
Ø7.94
7.55
45°
45°
LEAD HOLE
.75 N.P.T.
4 HOLES
.38-16 TAP
Ø5.88 B.C.
5.96
.0015 MAX. CLEARANCE
.09
.41
.006
.004
1.09
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE RANGES 614-623, 624-634, & 635-646
REV: B
VERSION: 02
REVISED: 10:53:14 05/01/2024
TDR: 000001229108
MODEL NO. 36LYT390
REF: -
BY: USGRHUR
B
BALDOR - RELIANCE®
VERT 143-5TC XPFC 36M CLI GP D, CLII GP F&G
36LYT390

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