ABB BALDOR RELIANCE

Customer information packet

JMXM18721T

7.5HP, 3450RPM, 3PH, 60HZ, 184JM, 3646M, XPFC
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	184JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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
Current @ Voltage	16.800 A @ 230.0 V
	18.500 A @ 208.0 V
	8.400 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.4 a

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS428
Layout	36LYE309
Eff. date	08-21-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	03-25-2021

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.86 IN
Power Factor	93
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	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

NP0015XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	36-0000-0496						
CAT.NO.	JMXM18721T						
HP	7.5	**T. CODE**	T2C				
VOLTS	230/460						
AMPS	16.8/8.4						
RPM	3450						
HZ	60	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	184JM	**NEMA-NOM-EFF**	89.5				
		PF	93				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 35731
Typical performance - not guaranteed values

Winding: 36WGS428-R004	**Type:** 3646M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			16.8/8.4	**Breakdown Torque**	57.9 LB-FT
R.P.M.			3450	**Pull-up Torque**	39.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	48.2 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	91 A
Service Factor (S.F.)			1	**No-load Current**	2.33 A
NEMA Nom. Eff.	89.5	**Power Factor**	93	**Line-line Res. @ 25ºC**	1.43 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
				Locked-rotor Power Factor	44
				Rotor inertia	0.205 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	64	85	90	93	94	94
Efficiency	86.9	90.6	91	90.1	88.8	86.5
Speed	3571	3539	3505	3468	3429	3385
Line amperes	3.14	4.59	6.43	8.43	10.5	12.9

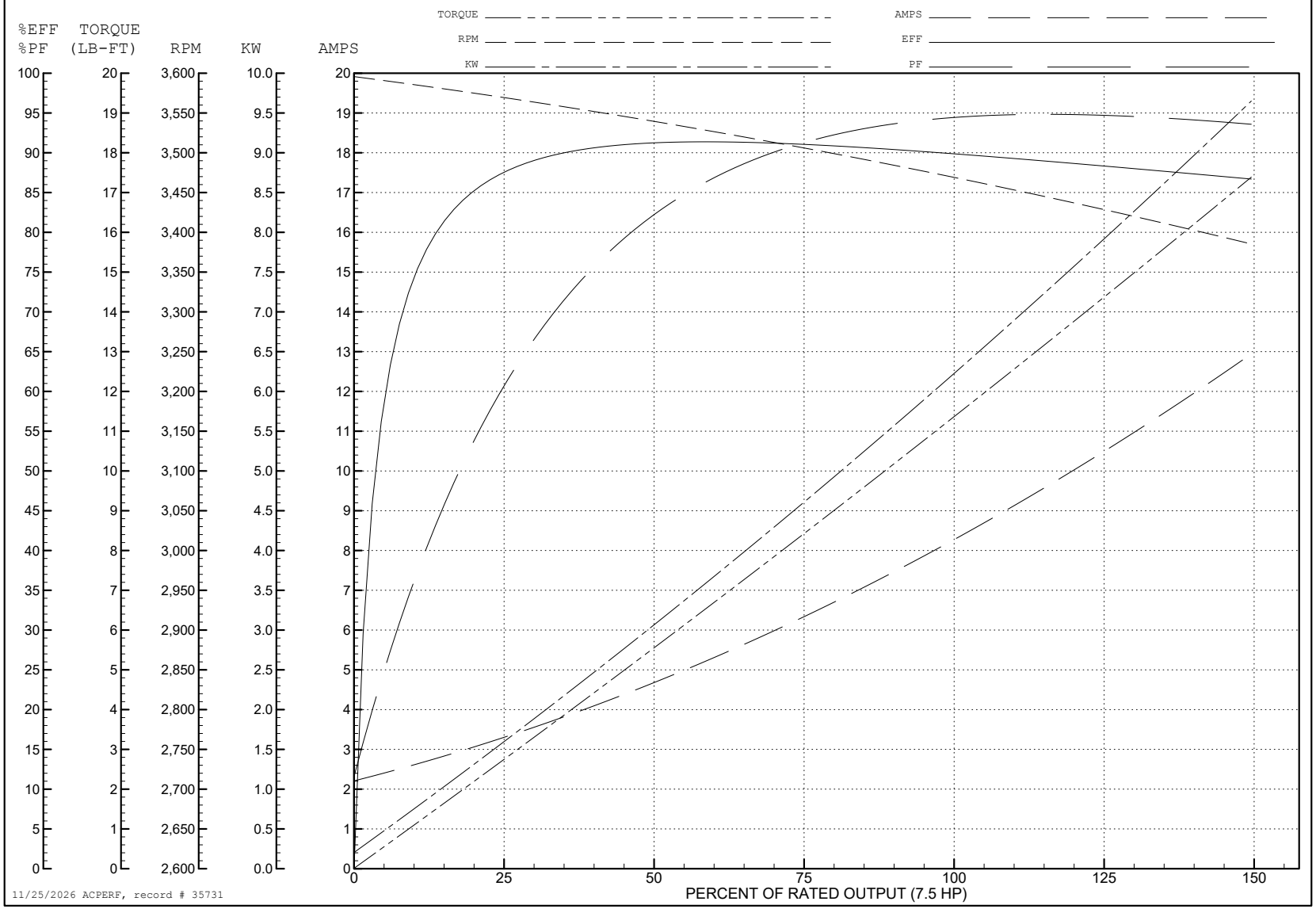
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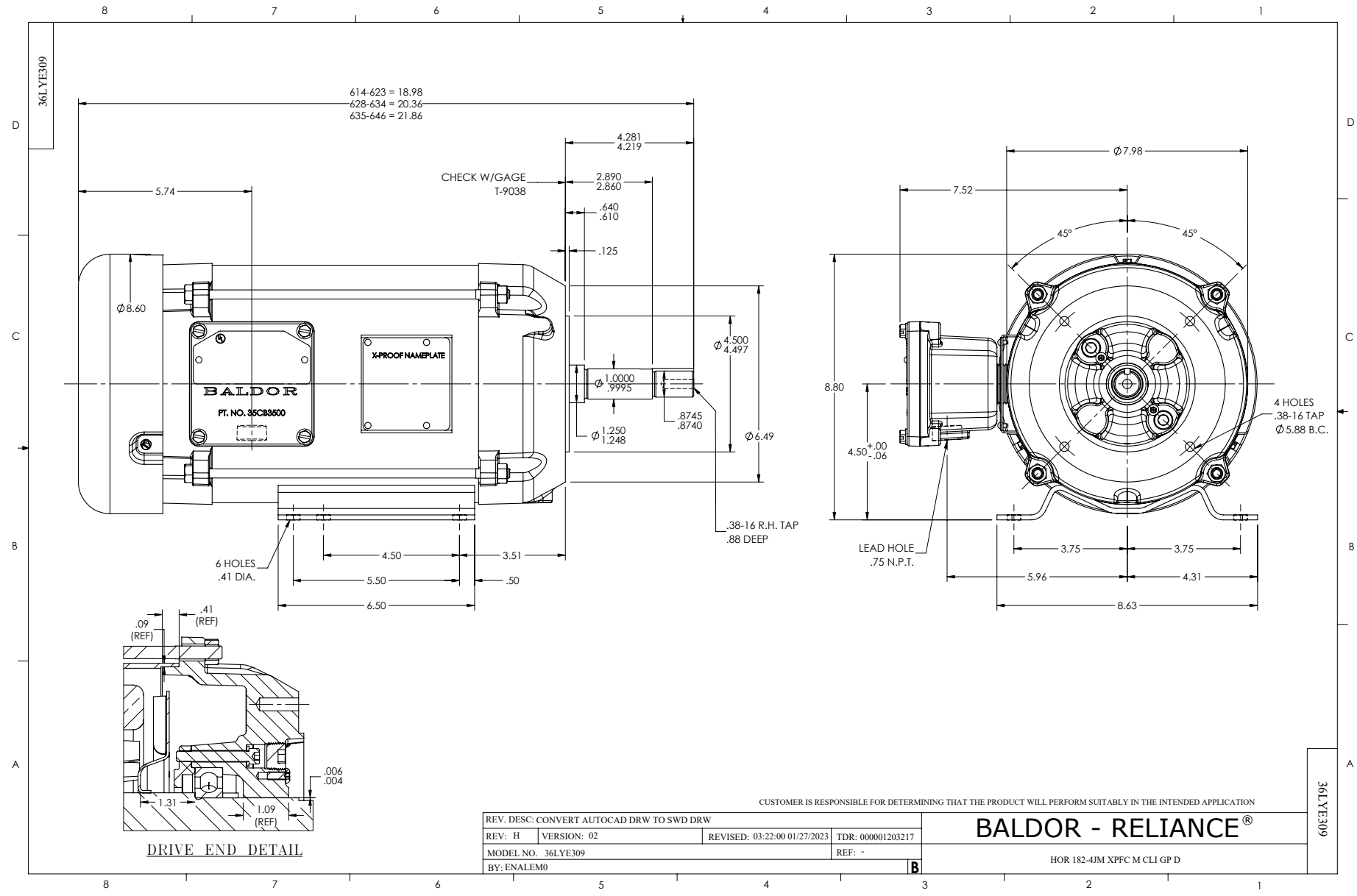
WINDING # 36WGS428

7.5 HP 3 PH 60 HZ 3450 RPM 460 V 3646M

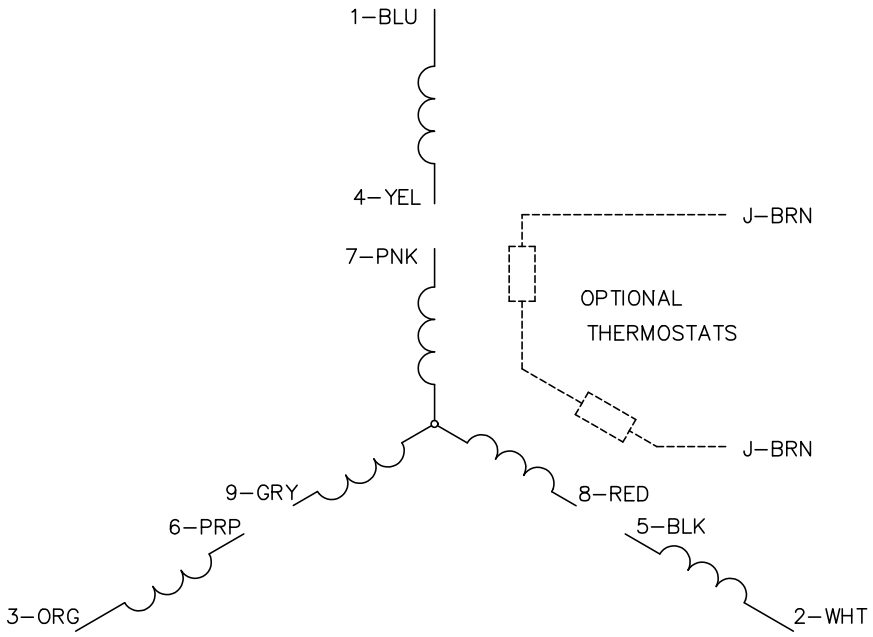
Typical performance - not guaranteed values.

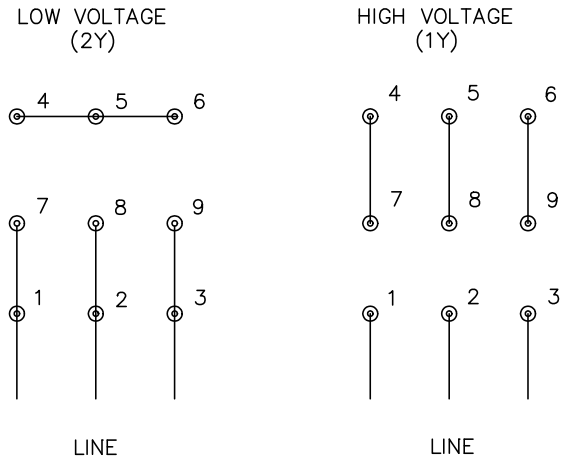
TORQUES(LB-FT): PO=57.9 PU=39.9 LR=48.2 LRA=91




36LYE309
614-623 = 18.98
628-634 = 20.36
635-646 = 21.86
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
.640
.610
.125
5.74
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø 1.0000
.9995
Ø 4.500
4.497
.8745
.8740
Ø 1.250
1.248
Ø6.49
.38-16 R.H. TAP
.88 DEEP
6 HOLES
.41 DIA.
4.50
3.51
5.50
.50
6.50
Ø7.98
7.52
45°
45°
8.80
4.50 +.00 -.06
4 HOLES
.38-16 TAP
Ø5.88 B.C.
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.96
4.31
8.63
.09
(REF)
.41
(REF)
.006
.004
1.31
1.09
(REF)
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: H
VERSION: 02
REVISED: 03:22:00 01/27/2023
TDR: 000001203217
MODEL NO. 36LYE309
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 182-4JM XPFC M CLI GP D
36LYE309

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