ABB BALDOR RELIANCE

Customer information packet

CL3608TM

5HP, 3450RPM, 1PH, 60HZ, 184TC, 3640LC, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
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	19.500 A @ 230.0 V
	21.600 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	19.5 a
Insulation Class	F

Part Detail

Revision	AM
Type	AC
Mech. spec.	36M038
Base	
Status	PRD/A
Elec. spec.	36WGW957
Layout	36LYM038
Eff. date	04-01-2025
CD Diagram	CD0002A02
Poles	02
Leads	2#14 A PH,3#16 B&J
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.05 IN
Power Factor	99
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	CL3608TM										
SPEC.	36M38W957										
HP	5										
VOLTS	208-230										
AMP	21.6-19.5										
RPM	3450										
FRAME	184TC		**HZ**	60		**PH**	1				
SER.F.	1.00	**CODE**	G	**DES**	L	**CL**	F				
NEMA-NOM-EFF	83	**PF**	99								
RATING	40C AMB-CONT										
CC											
DE	6206	**ODE**	6205								
ENCL	TEFC	**SN**									

Parts List

Part number	Description	Quantity
SA037199	SA 36M38W957	1.000 ea
RA033224	RA 36M38W957	1.000 ea
TPBRT25DB	THERMAL 1PH 1.25 MAN 120CWELDED	1.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
36CB3004A02	36 CB 1.09 @ 6, 1.25 MTO @ 3	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HA6015A09	THERMAL RETAINER PLATED	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
36GS3000	GASKET, CAPACITOR COVER LEXIDE	1.000 ea
10XN2520A10	1/4-20X 5/8 HEX HD X	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3301A01SP	PU ENDPLATE, ENCL. 182-4TC 206 BRG. W/GR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A26	1/4-20X 1 5/8 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 ea
36CB5005A11	CAPACITOR BOX KIT, 36CB3800Z, EC1161C06	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
35FN3002A04SP	EXFN, PLASTIC, 6.376 OD, .906 ID W/KEY	1.000 ea
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 93463
Typical performance - not guaranteed values

Winding: 36WGW957-R004	**Type:** 3640LC	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.58 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			21.6-19.5	**Breakdown Torque**	20.9 LB-FT
R.P.M.			3450	**Pull-up Torque**	9.8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	11.8 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	114 A
Service Factor (S.F.)			1	**No-load Current**	1.92 A
NEMA Nom. Eff.	83	**Power Factor**	99	**Line-line Res. @ 25ºC**	0.39 Ω A Ph 1.05 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
				Locked-rotor Power Factor	58.2
				Rotor inertia	0.18 lb-ft²

Load Characteristics 208 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	99	99	99	99	98	98
Efficiency	69.8	83.2	84.2	82.9	79.5	73.9
Speed	3559	3526	3485	3438	3376	3295
Line amperes	6.07	10.56	15.86	21.59	28.16	36.12

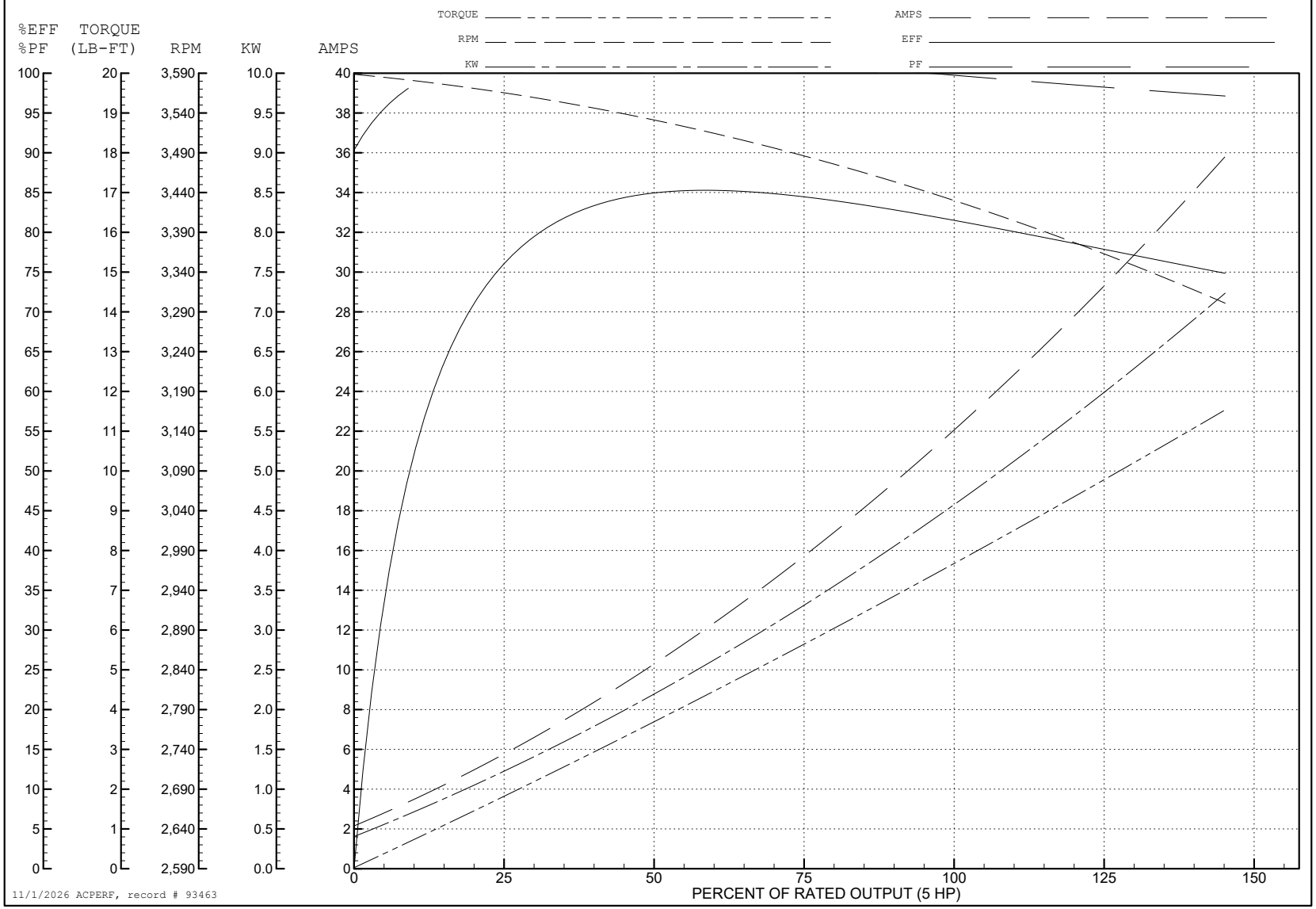
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WINDING # 36WGW957

5 HP 1 PH 60 HZ 3450 RPM 208 V 3640LC

TORQUES(LB-FT): PO=20.9 PU=9.8 LR=11.8 LRA=114

Typical performance - not guaranteed values.



AC Induction Motor Performance Data
Record # 93464
Typical performance - not guaranteed values

Winding: 36WGW957-R004	**Type:** 3640LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.5 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			21.6-19.5	**Breakdown Torque**	26 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	15 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	128 A
Service Factor (S.F.)			1	**No-load Current**	2.3 A
NEMA Nom. Eff.	83	**Power Factor**	99	**Line-line Res. @ 25ºC**	0.38 Ω A Ph 1.02 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	98	98	98	98	97	97
Efficiency	66.4	81.5	83.9	83.9	82.1	79.2
Speed	3565	3539	3507	3472	3430	3389
Line amperes	6.5	10.4	14.9	19.6	24.7	29.9

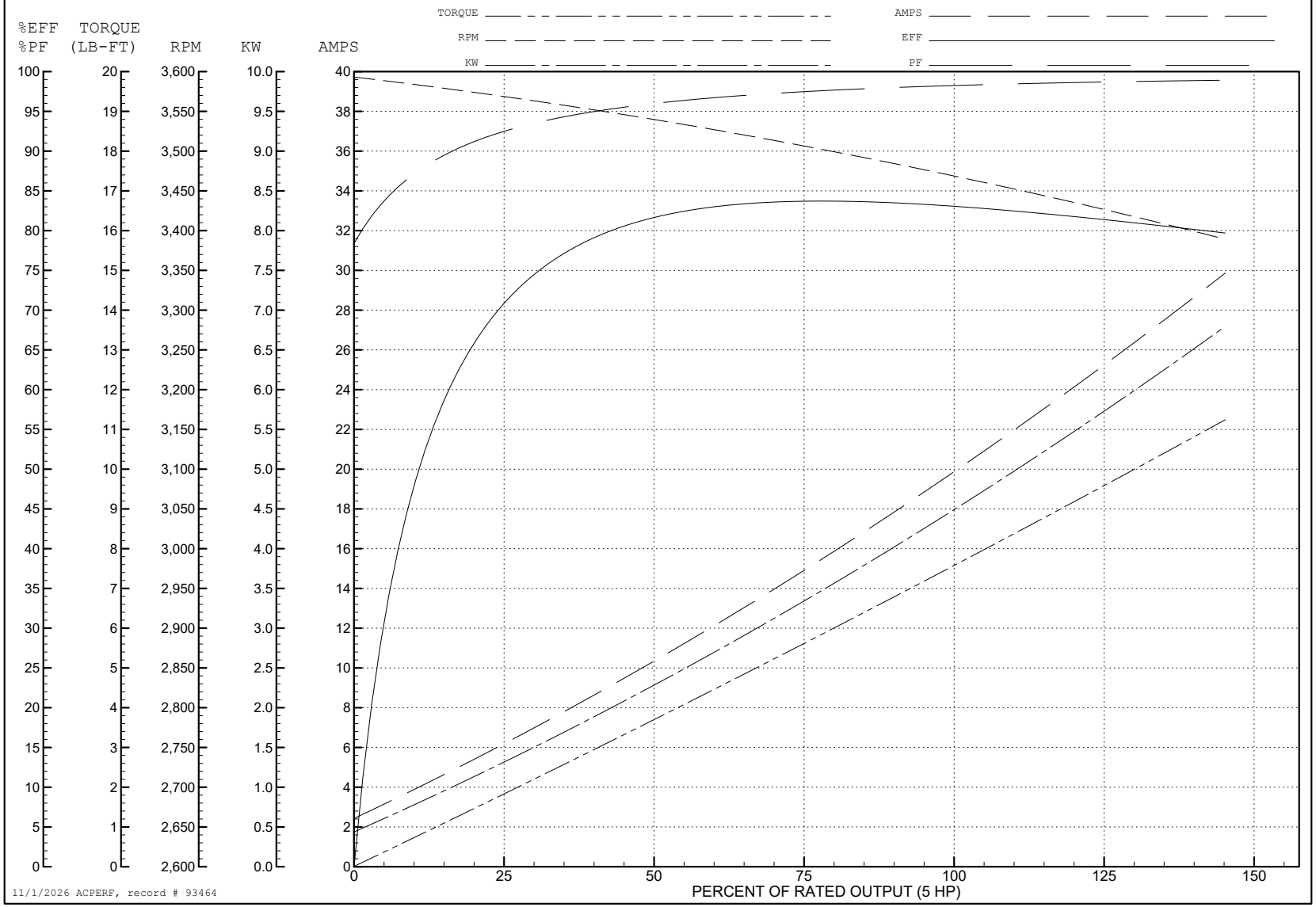
ABB Motors and Mechanical Inc.

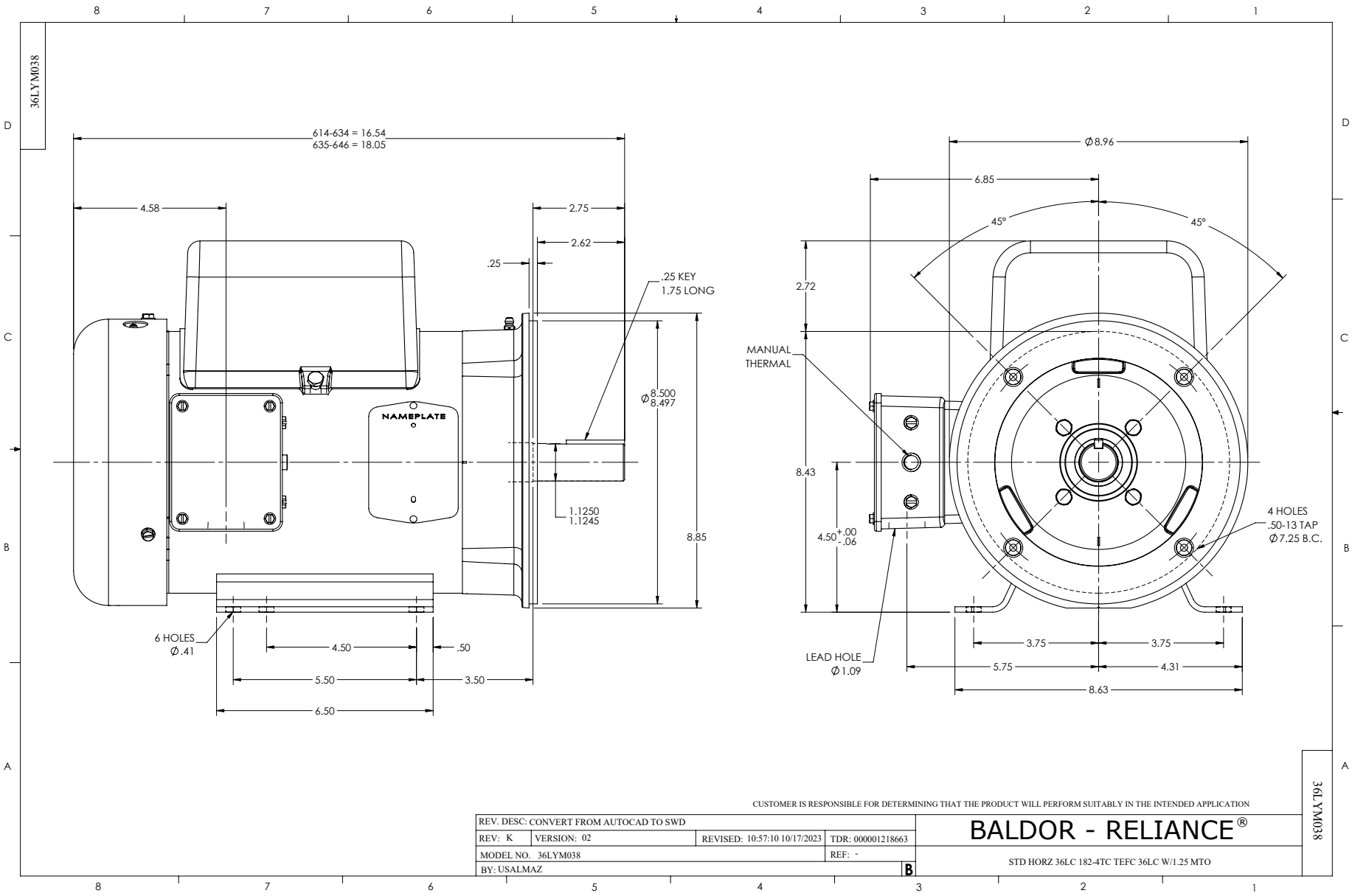
WINDING # 36WGW957

5 HP 1 PH 60 HZ 3450 RPM 230 V 3640LC

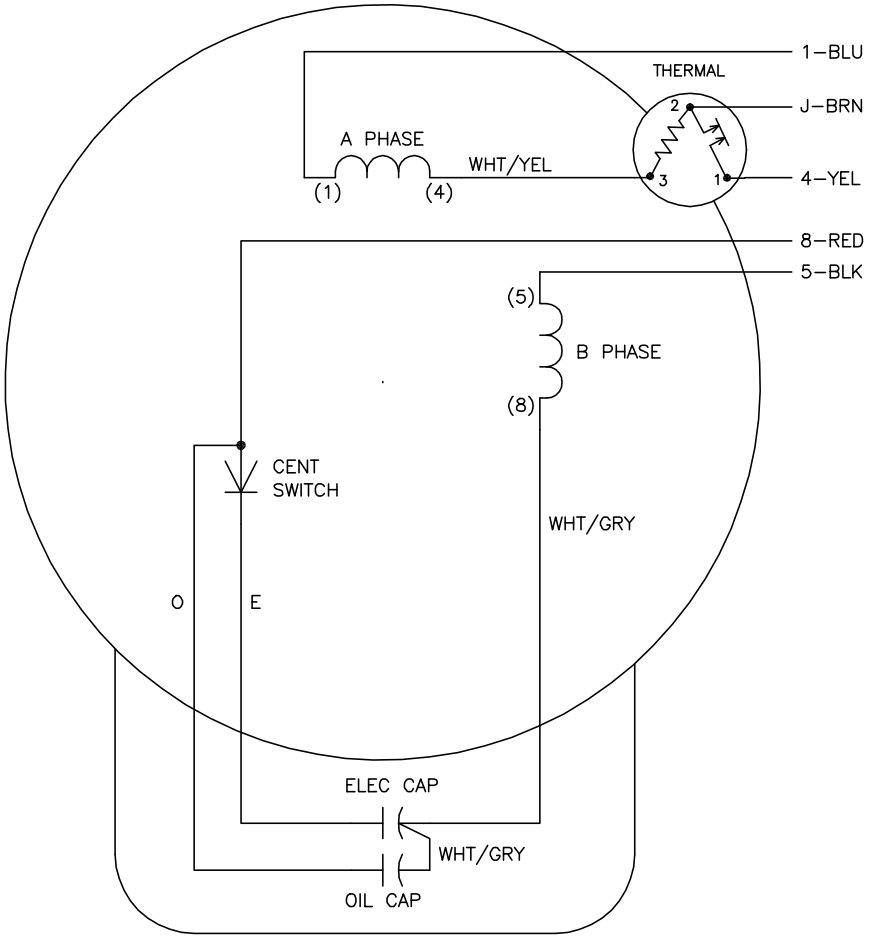
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=26 PU=12.5 LR=15 LRA=128




36LYM038
614-634 = 16.54
635-646 = 18.05
4.58
2.75
2.62
.25
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.500
8.497
1.1250
1.1245
8.85
6 HOLES
Ø.41
4.50
.50
5.50
3.50
6.50
Ø8.96
6.85
45°
45°
2.72
MANUAL
THERMAL
8.43
4.50 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
Ø1.09
3.75
3.75
5.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: K
VERSION: 02
REVISED: 10:57:10 10/17/2023
TDR: 000001218663
MODEL NO. 36LYM038
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 36LC 182-4TC TEFC 36LC W/1.25 MTO
36LYM038

CD0002A02



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0002A04			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000360649	
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005	TYPE LC, SV, REV, THERMAL, 5 LEADS
	MTL: –	BY: ENJOEP0	

CD0002A02