

ABB BALDOR RELIANCE III

Customer information packet

JML1409T

5HP, 3500RPM, 1PH, 60HZ, 184JM, 3634LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	184JM
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	230.0 V @ 60 HZ
Agency Approvals	CSA UR
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	21.000 A @ 230.0 V 22.700 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	E
Type	AC
Mech. spec.	36M927
Base	
Status	PRD/A
Elec. spec.	36WGQ042
Layout	36LYM927
Eff. date	05-10-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#12 A PH,2#16 B PH
Proprietary	False
Created date	12-15-2020

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.50 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP1256L									
CAT.NO.	JML1409T								
SPEC.	36M927Q042G1								
HP	5								
VOLTS	230								
AMP	21								
RPM	3500								
FRAME	184JM		HZ	60			PH	1	
SER.F.	1.15		CODE	H	DES	L	CLASS	F	
NEMA-NOM-EFF	80		PF	96					
RATING	40C AMB-CONT								
CC									
DE	6207		ODE	6205					
ENCL	OPEN		SN						

Parts List

Part number	Description	Quantity
SA388817	SA 36M927Q042G1	1.000 ea
RA379179	RA 36M927Q042G1	1.000 ea
OC3035F09SP	CYL OIL CAP 35MFD/370V	1.000 ea
EC1340C06	ELEC CAP, 340-408MFD, 250V, 2.06D X 4.	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	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
36EP3204D00	MASTER ODE,205 BRG,GRSR,RLF	1.000 ea
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3405A05	PUEP 182-4C OPEN 207 BRG W/BAFF. TSLV, G	1.000 ea
36AD2000	AIR BAFFLE	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
HA1102A07	RODENT SCREEN 36 OPEN FACE	2.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 BRG	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea

HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
SP5172A08	37 TYPE LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
36CB3800SP	CAPACITOR COVER, CAST	1.000 ea
HA7010A01	CAPACITOR RETENTION CLAMP, 6.562 LONG	1.000 ea
ML1400A14	14 AWG,BLANK,WHITE	6.000 in
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	2.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea
PE-0000008	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 85843

Typical performance - not guaranteed values

Winding: 36WGQ042-R001				Type: 3634LC		Enclosure: OPEN		
Nameplate Data				230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5		Full Load Torque		7.552 LB-FT		
Volts		230		Start Configuration		direct on line		
Full Load Amps		21		Breakdown Torque		15.44 LB-FT		
R.P.M.		3500		Pull-up Torque		11.13 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		16.11 LB-FT		
NEMA Design Code		L	KVA Code	H	Starting Current		140 A	
Service Factor (S.F.)		1.15		No-load Current		3.94 A		
NEMA Nom. Eff.		80	Power Factor	96	Line-line Res. @ 25°C		0.38164 Ω A Ph 1.649 Ω B Ph	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		62°C
S.F. Amps						Temp. Rise @ S.F. Load		78°C
						Rotor inertia		0.153 lb-ft²

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	87	94	96	97	97	96	97
Efficiency	72.4	82.2	84.2	83.7	81.7	78.6	82.5
Speed	3572	3547	3518	3485	3445	3395	3461
Line amperes	6.53	10.47	15.01	20.06	25.69	32.41	23.4

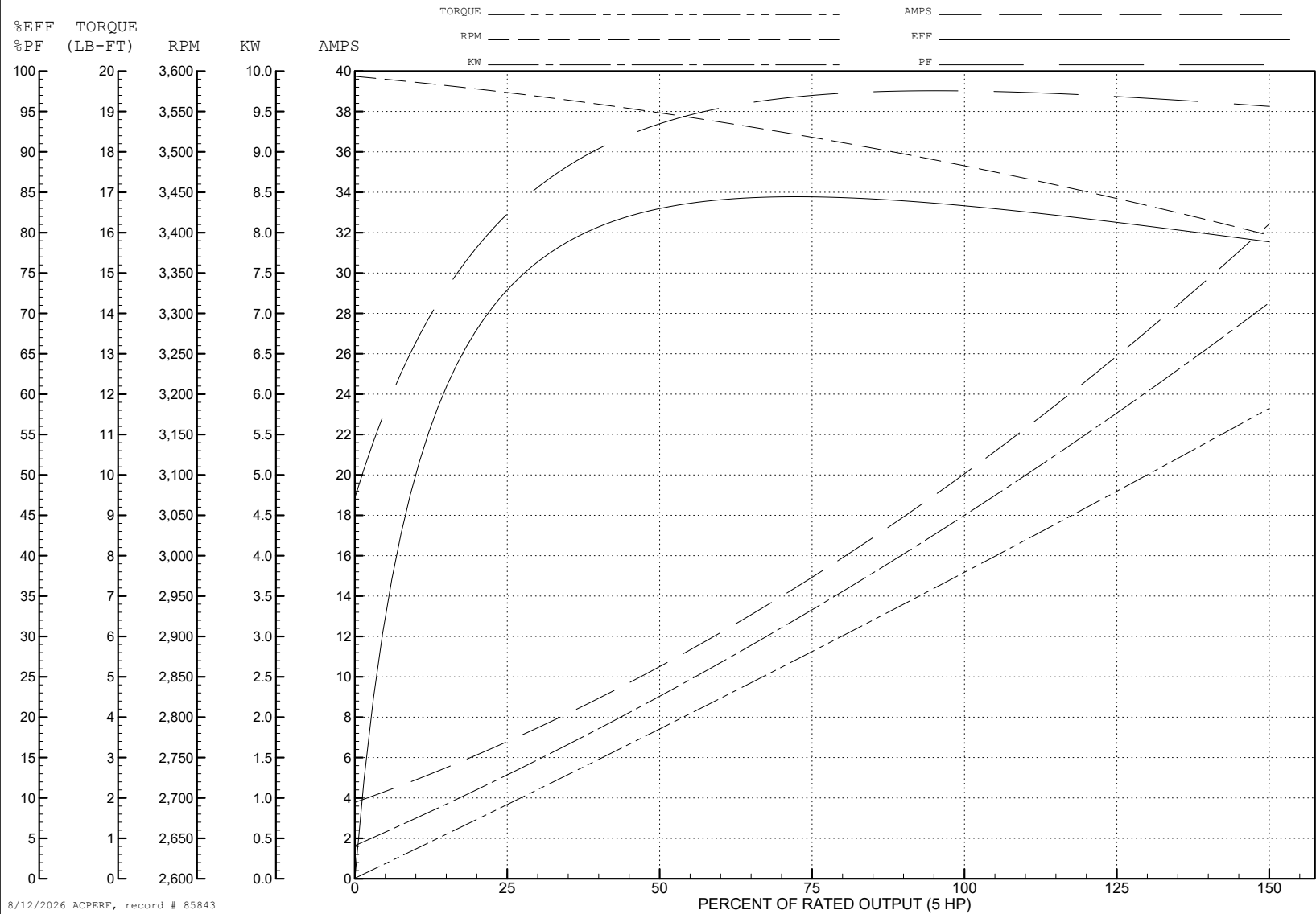
ABB Motors and Mechanical Inc.

WINDING # 36WGQ042

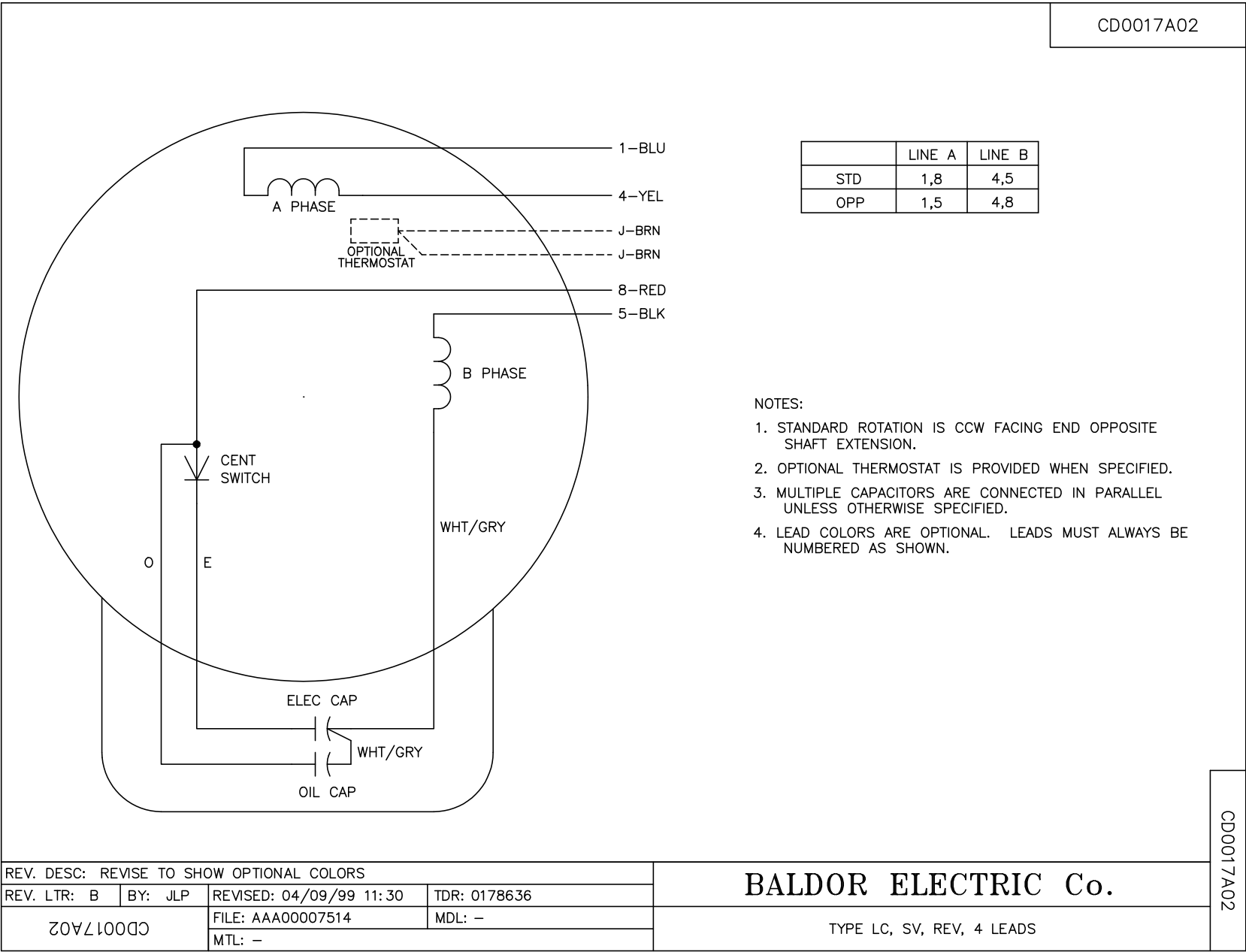
Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 3500 RPM 230 V 3634LC

TORQUES (LB-FT): PO=15.44 PU=11.13 LR=16.11 LRA=140



CD0017A02



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

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

CD0017A02

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, 4 LEADS