

ABB BALDOR RELIANCE III

Customer information packet

VEL11301A

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3418LC, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	56C
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	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.400 A @ 115.0 V 2.100 A @ 208.0 V 1.700 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	Standard
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a

Part Detail

Revision	H
Type	AC
Mech. spec.	34L588
Base	
Status	PRD/A
Elec. spec.	34WGR213
Layout	34LYL588
Eff. date	10-29-2024
CD Diagram	CD0703
Poles	04
Leads	7#18
Proprietary	False
Created date	02-13-2015

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.00 IN
Power Factor	85
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	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2

None

Nameplate

NP1257L									
CAT.NO.	VEL11301A								
SPEC.	34L588R213G1								
HP	.33								
VOLTS	115/230								
AMP	3.4/1.7								
RPM	1740								
FRAME	56C			HZ	60			PH	1
SER.F.	1.35	CODE	K	DES	N	CL	F		
NEMA-NOM-EFF	72.4	PF	85						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	ODP	SN							
	SFA 4.4/2.2								

Parts List

Part number	Description	Quantity
SA293900	SA 34L588R213G1	1.000 ea
RA279988	RA 34L588R213G1	1.000 ea
OC3016F12SP	CYL OIL CAP 16MFD/370V	1.000 ea
EC1145A02	ELEC CAP 115V 1.4 X 3.3 X	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3401A01SP	PU ENDPLATE, MACH	1.000 ea
34AD2000	BAFFLE PLATE, STAMPED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5068A03	34LC TERM PANEL STAT SWITCH #E-6" AND #O	1.000 ea
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea

AC Induction Motor Performance Data

Record # 62087

Typical performance - not guaranteed values

Winding: 34WGR213-R005			Type: 3418LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.33	Full Load Torque		0.996 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		3.4/1.7	Breakdown Torque		3.18 LB-FT	
R.P.M.		1740	Pull-up Torque		2.29 LB-FT	
Hz		60	Phase		1	
NEMA Design Code		N	KVA Code		K	
Service Factor (S.F.)		1.35	No-load Current		1.69 A	
NEMA Nom. Eff.		72.4	Power Factor		85	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		4.4/2.2	Temp. Rise @ S.F. Load		35°C	
					42°C	

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	72	81	85	87	89	88
Efficiency	32.1	64.5	69.3	73.5	76.7	73.7	75.5
Speed	1780.3	1770	1754.7	1739.9	1725.3	1703.3	1716
Line amperes	1.96	2.31	2.87	3.43	3.99	4.81	4.32

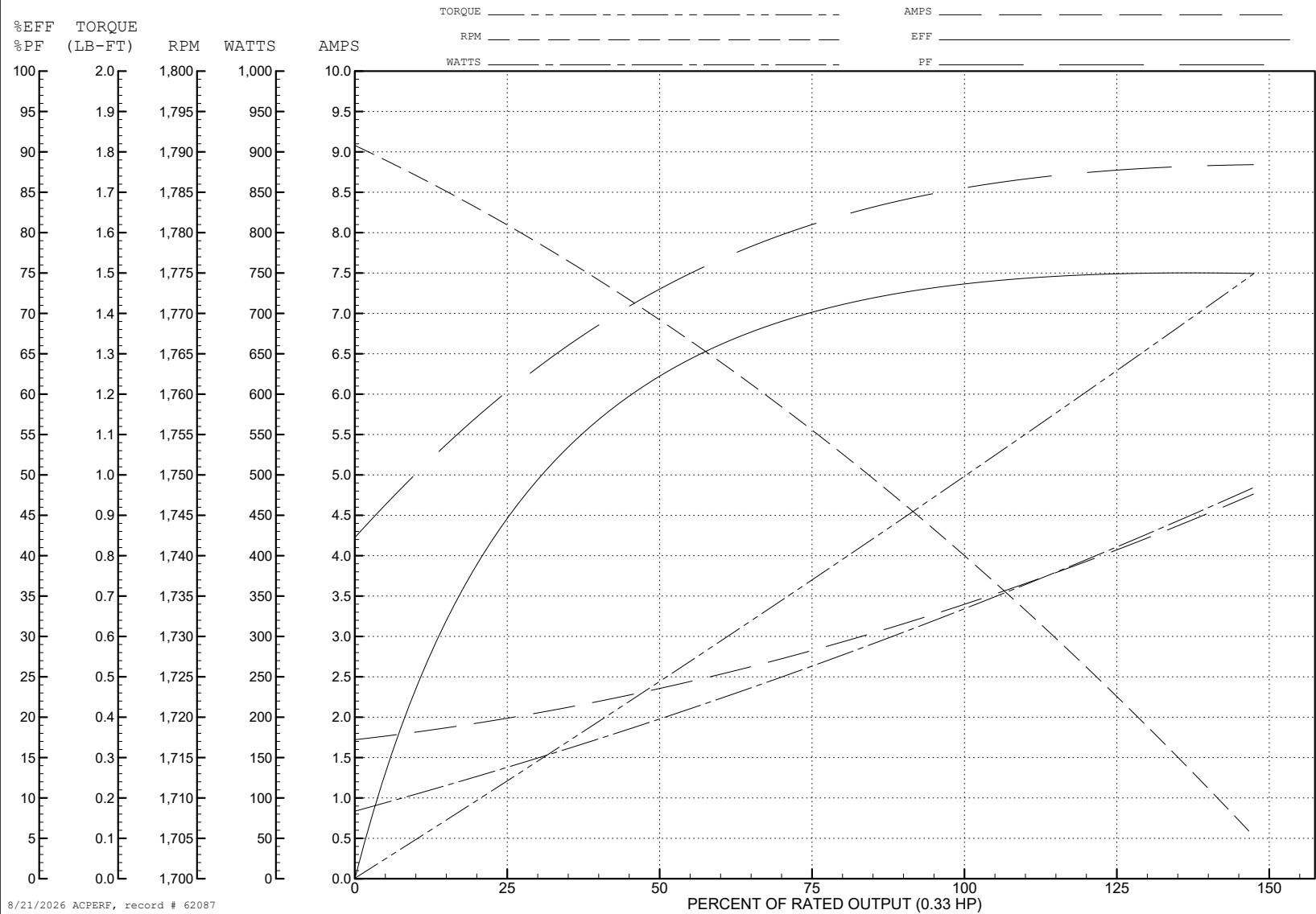
ABB Motors and Mechanical Inc.

WINDING # 34WGR213

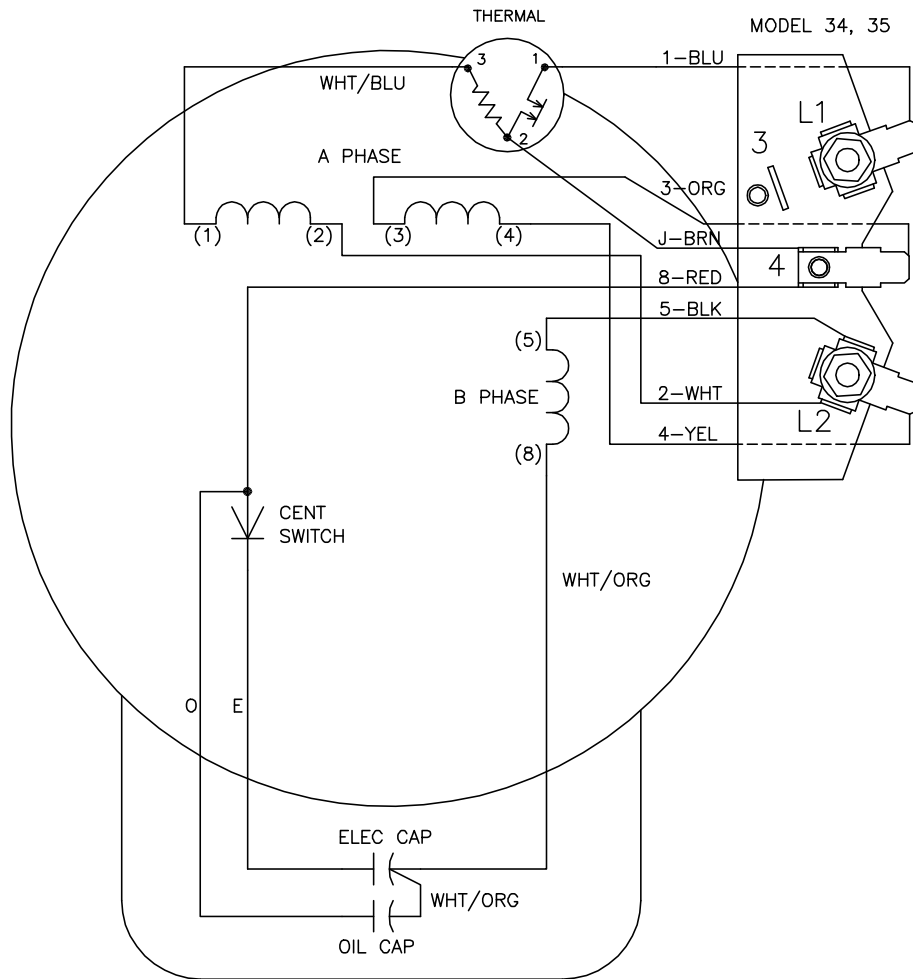
Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1740 RPM 115 V 3418LC

TORQUES (LB-FT) : PO=3.18 PU=2.29 LR=4.26 LRA=24.1



CD0703



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
LOW VOLTAGE: CONNECT AS SHOWN.
HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD
ROTATION (CCW FACING END OPPOSITE
SHAFT EXTENSION). INTERCHANGE
LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN
PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST
ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE MODEL 17 CONNECTION

REV. LTR: G

VERSION: 02

TDR: 000001218314

FILE: \AAA\00007\140

REVISED: 08:28:11 10/11/2023

BY: ENBRIO

MTL: -



BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1

CD0703