

ABB BALDOR RELIANCE III

Customer information packet

VEL11301

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3418LC, OPEN, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	1.700 A @ 230.0 V 2.500 A @ 208.0 V 3.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a

Part Detail

Revision	L
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGW954
Layout	34LYF534
Eff. date	06-11-2025
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-08-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.85 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	None
Winding Thermal 2	None

Nameplate

NP3155L												
CAT.NO.	VEL11301											
SPEC.	34F534W954G1											
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	B					
F.L. AVG. EFF.	72.4	PF	85									
RATING	40C AMB-CONT											
CC												
DE	6203		ODE	6203								
ENCL	OPEN	SN										
	SFA 4.4/2.2											

Parts List

Part number	Description	Quantity
SA288191	SA 34F534W954G1	1.000 ea
RA274389	RA 34F534W954G1	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
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3210A03SP	FR ENDPLATE, MACH	1.000 ea
SP1006A01	INSULATOR MODEL 35 SWITCH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3401A01P	PU ENDPLATE, MACH/PAINTED	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
34FH4000A11	DRIP COVER, STAMPED,PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 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
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	3.000 ea
SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	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

LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP3155L	ALUM SUPER-E UL CC "SEMS"	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 49395

Typical performance - not guaranteed values

Winding: 34WGW954-R004			Type: 3418LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.33	Full Load Torque		0.99 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		3.4/1.7	Breakdown Torque		2.46 LB-FT		
R.P.M.		1740	Pull-up Torque		2.33 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		3.94 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		24.5 A
Service Factor (S.F.)		1.35		No-load Current		1.57 A	
NEMA Nom. Eff.		72.4	Power Factor	85	Line-line Res. @ 25°C		1.8255 Ω A Ph 5.5445 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C	
S.F. Amps		4.4/2.2		Temp. Rise @ S.F. Load		42°C	

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	74	81	86	88	90	89
Efficiency	42.7	67.4	74.2	74.6	74.2	72.5	73.5
Speed	1781.1	1772.5	1759.4	1742.5	1721.5	1700.5	1713
Line amperes	1.86	2.15	2.64	3.31	4.09	4.89	4.41

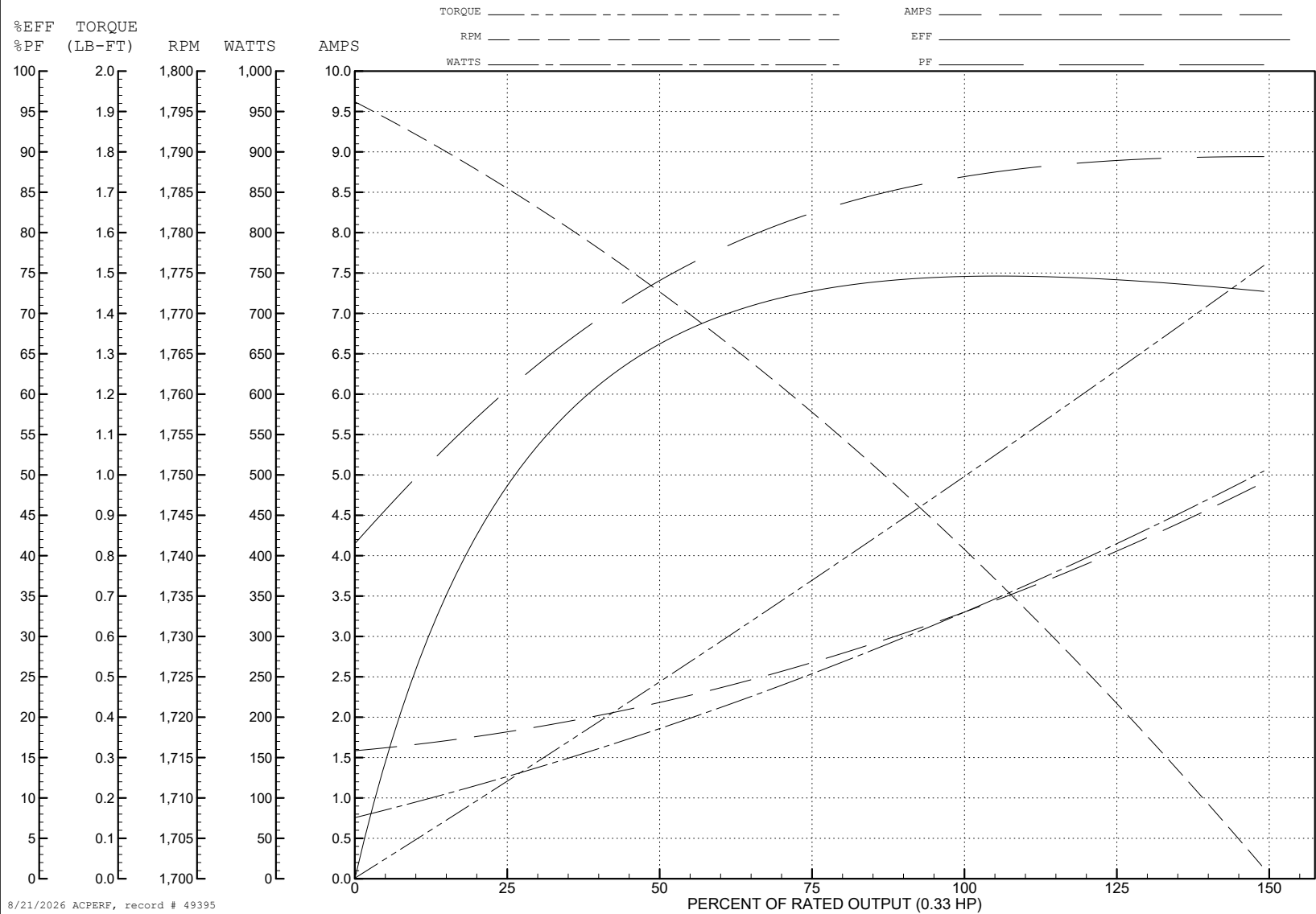
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WINDING # 34WG954

Typical performance - not guaranteed values.

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

TORQUES (LB-FT) : PO=2.46 PU=2.33 LR=3.94 LRA=24.5



AC Induction Motor Performance Data

Record # 49397

Typical performance - not guaranteed values

Winding: 34WGW954-R004			Type: 3418LC		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.33		Full Load Torque		0.99 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		3.4/1.7		Breakdown Torque		2.46 LB-FT
R.P.M.		1740		Pull-up Torque		2.08 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		3.51 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		12.36 A
Service Factor (S.F.)		1.35		No-load Current		0.794 A
NEMA Nom. Eff.		72.4	Power Factor	Line-line Res. @ 25°C		1.75 Ω A Ph 5.76 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		30°C
S.F. Amps		4.4/2.2		Temp. Rise @ S.F. Load		40°C
				Rotor inertia		0.0428 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	74	82	86	88	90	89
Efficiency	41.8	66.8	73.5	74.3	73.8	72.1	73.1
Speed	1781	1773	1759	1743	1722	1700	1713
Line amperes	0.941	1.09	1.33	1.67	2.06	2.46	2.22

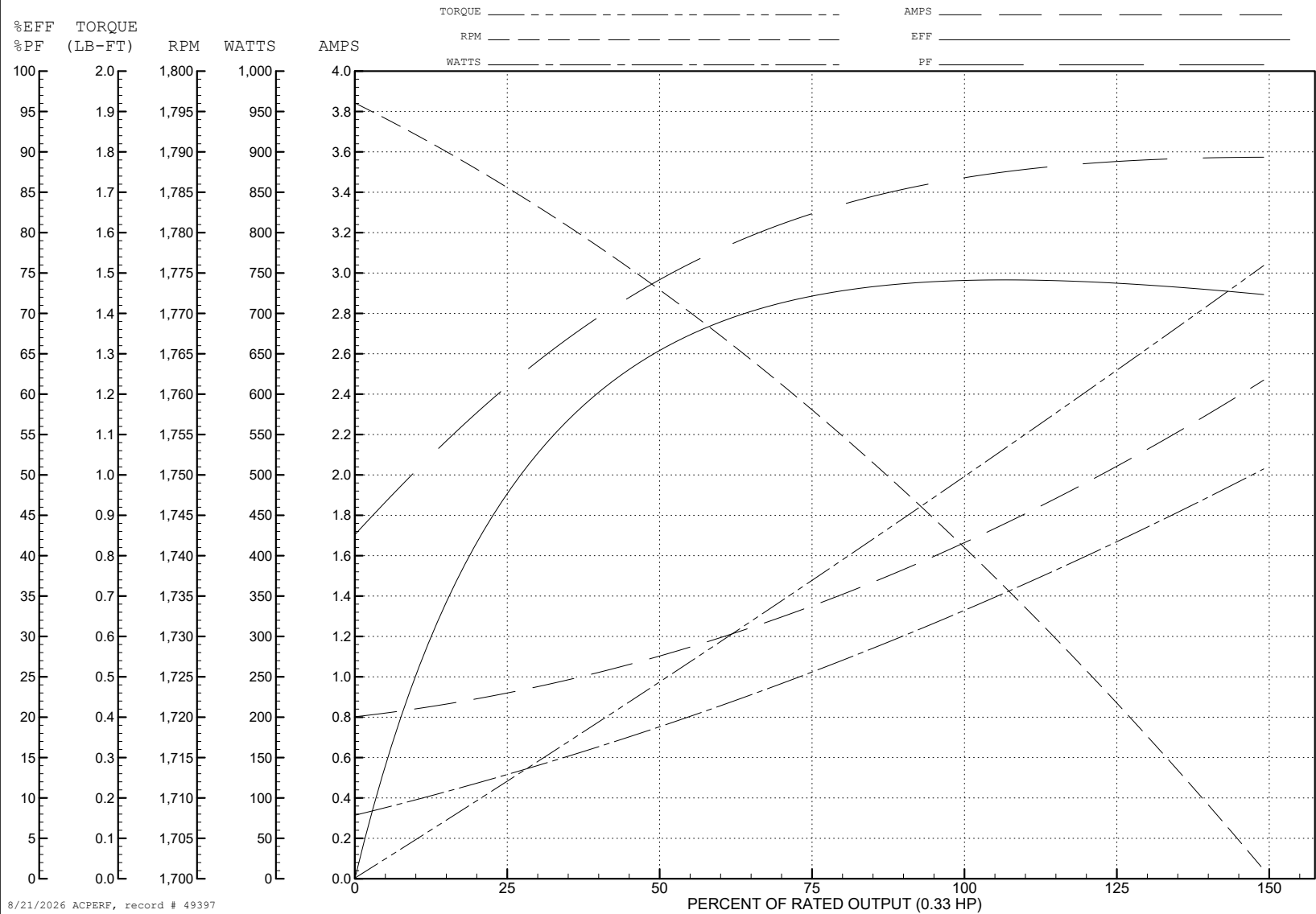
ABB Motors and Mechanical Inc.

WINDING # 34WG954

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1740 RPM 230 V 3418LC

TORQUES (LB-FT) : PO=2.46 PU=2.08 LR=3.51 LRA=12.36



CD0055

