

ABB BALDOR RELIANCE III

Customer information packet

VEL11303

.5HP, 3450RPM, 1PH, 60HZ, 56C, 3413LC, OPEN, F1

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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 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	2.500 A @ 230.0 V 4.900 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	2.5 a
Insulation Class	B

Part Detail

Revision	K
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGR142
Layout	34LYF534
Eff. date	09-15-2026
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	09-26-2014

Inverter Code	Not Inverter
KVA Code	L
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	3413LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.85 IN
Power Factor	91
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	1.25
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	3450 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.	VEL11303										
SPEC.	34F534R142G1										
HP	.5										
VOLTS	115/230										
AMP	4.9/2.5										
RPM	3450										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.25	CODE	L	DES	N	CL	B				
F.L. AVG. EFF.	72.4	PF	91								
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN	SN									
	SFA 5.8/2.9										

AC Induction Motor Performance Data

Record # 47426

Typical performance - not guaranteed values

Winding: 34WGR142-R002			Type: 3413LC	Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)		.5	Full Load Torque		0.755 LB-FT
Volts		115/230	Start Configuration		direct on line
Full Load Amps		4.9/2.5	Breakdown Torque		2.5 LB-FT
R.P.M.		3450	Pull-up Torque		1.78 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	2.47 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	38 A
Service Factor (S.F.)		1.25	No-load Current		2.28 A
NEMA Nom. Eff.	72.4	Power Factor	91	Line-line Res. @ 25°C	1.1337 Ω A Ph 4.8491 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		21°C
S.F. Amps		5.8/2.9	Temp. Rise @ S.F. Load		27°C

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	70	82	88	91	93	94	93
Efficiency	42.8	59.4	69.9	73.5	73	73.2	73
Speed	3561.5	3535	3512.3	3480.9	3435.5	3401.6	3436
Line amperes	2.67	3.33	3.96	4.83	6	7.05	6

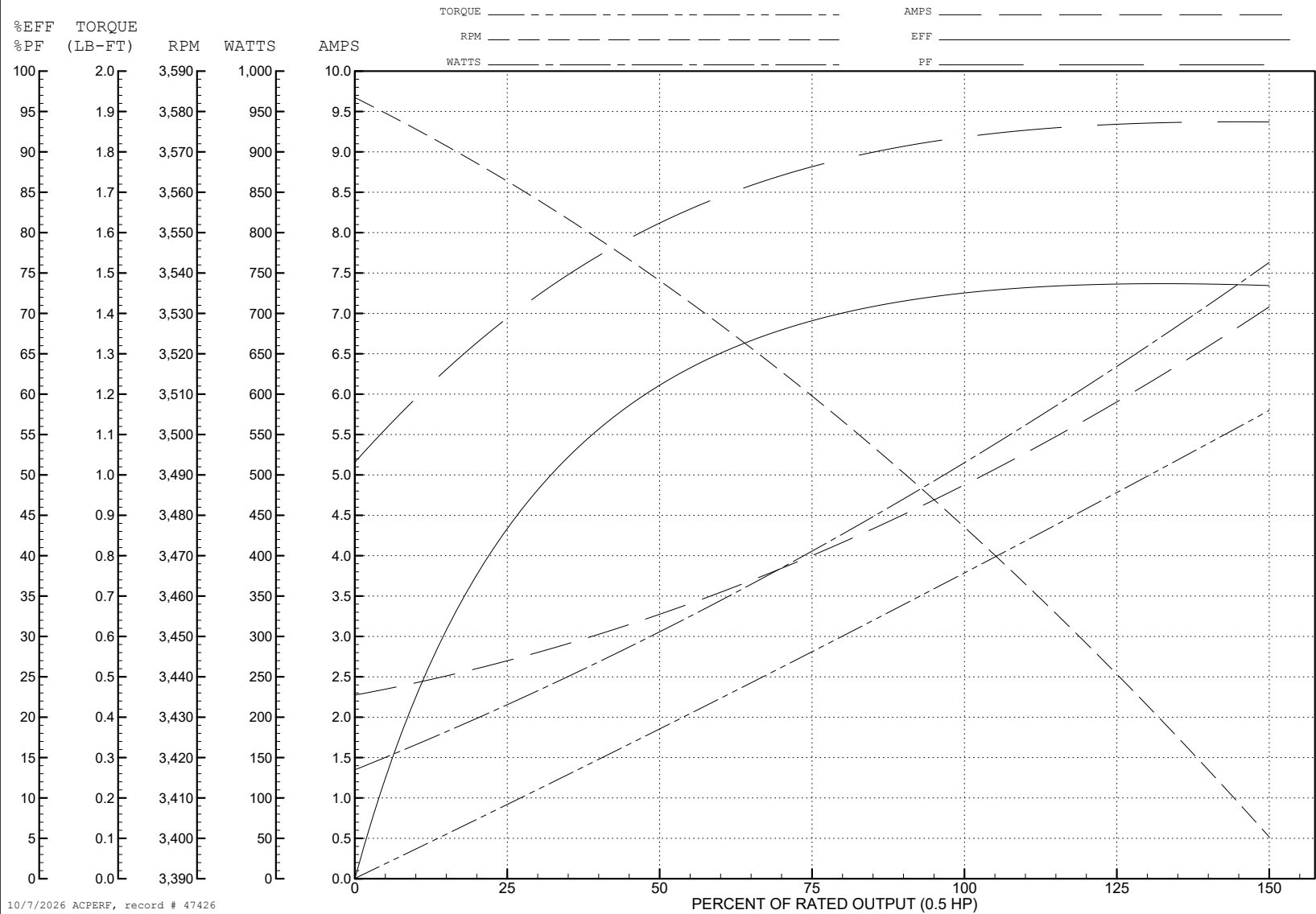
ABB Motors and Mechanical Inc.

WINDING # 34WGR142

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 3450 RPM 115 V 3413LC

TORQUES (LB-FT): PO=2.5 PU=1.78 LR=2.47 LRA=38



AC Induction Motor Performance Data

Record # 49399

Typical performance - not guaranteed values

Winding: 34WGR142-R002			Type: 3413LC		Enclosure: OPEN	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		0.755 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		4.9/2.5	Breakdown Torque		2.5 LB-FT	
R.P.M.		3450	Pull-up Torque		1.52 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque	2.11 LB-FT	
NEMA Design Code	N	KVA Code	L	Starting Current	18.66 A	
Service Factor (S.F.)		1.25	No-load Current		1.15 A	
NEMA Nom. Eff.	72.4	Power Factor	91	Line-line Res. @ 25°C	4.36 Ω A Ph 4.65 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		21°C	
S.F. Amps		5.8/2.9	Temp. Rise @ S.F. Load		25°C	
			Rotor inertia		0.0121 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	71	83	88	92	93	94	93
Efficiency	42.3	58.9	69.5	73.2	72.8	73.3	72.8
Speed	3562	3535	3512	3481	3436	3402	3436
Line amperes	1.34	1.67	1.99	2.42	3.01	3.53	3.01

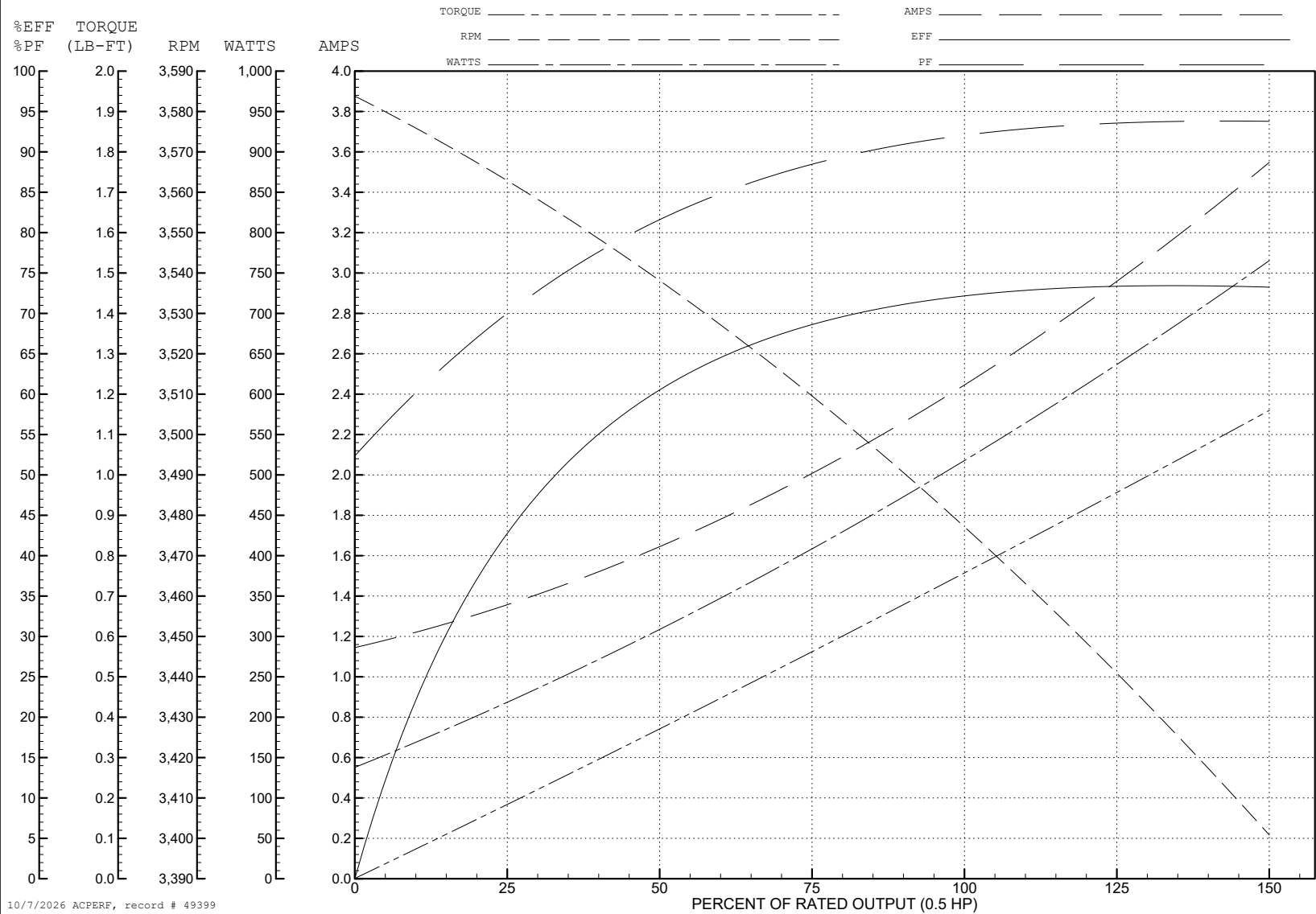
ABB Motors and Mechanical Inc.

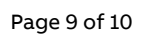
WINDING # 34WGR142

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 3450 RPM 230 V 3413LC

TORQUES (LB-FT): PO=2.5 PU=1.52 LR=2.11 LRA=18.66





CD0055

