

ABB BALDOR RELIANCE III

Customer information packet

EL11208

.5HP, 3450RPM, 1PH, 60HZ, 48, 3413LC, ODP, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	48
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	Rigid
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	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	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F

Part Detail

Revision	K
Type	AC
Mech. spec.	34F351
Base	
Status	PRD/A
Elec. spec.	34WGR142
Layout	34LYF351
Eff. date	12-31-2024
CD Diagram	CD0055
Poles	02
Leads	6#18
Proprietary	False
Created date	03-10-2014

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	9.76 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.500 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.	EL11208										
SPEC.	34F351R142G1										
HP	.5										
VOLTS	115/230										
AMP	4.9/2.5										
RPM	3450										
FRAME	48		HZ	60				PH	1		
SER.F.	1.25	CODE	L	DES	N	CL	F				
F.L. AVG. EFF.	72.4	PF	91								
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	ODP	SN									
	SFA 5.8/2.9										

Parts List

Part number	Description	Quantity
SA278051	SA 34F351R142G1	1.000 ea
RA264596	RA 34F351R142G1	1.000 ea
OC3025F11	CYL OIL CAP 25MFD/370V	1.000 ea
EC1400A03SP	ELEC CAP, 400-480 MFD, 125V, 1.81D X 3.	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
SP1006A01	INSULATOR MODEL 35 SWITCH	1.000 ea
34EP3210A01SP	FR ENDPLATE, MACH	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	2.000 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
34EP3212A02	PU ENDPLATE, MODEL 34 OPEN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	1.000 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
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data

Record # 49329

Typical performance - not guaranteed values

Winding: 34WGR142-R001		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	Locked-rotor Torque	2.11 LB-FT
NEMA Design Code	N KVA Code	Starting Current	18.66 A
Service Factor (S.F.)	1.25	No-load Current	1.15 A
NEMA Nom. Eff.	72.4 Power Factor	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-FT ²

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

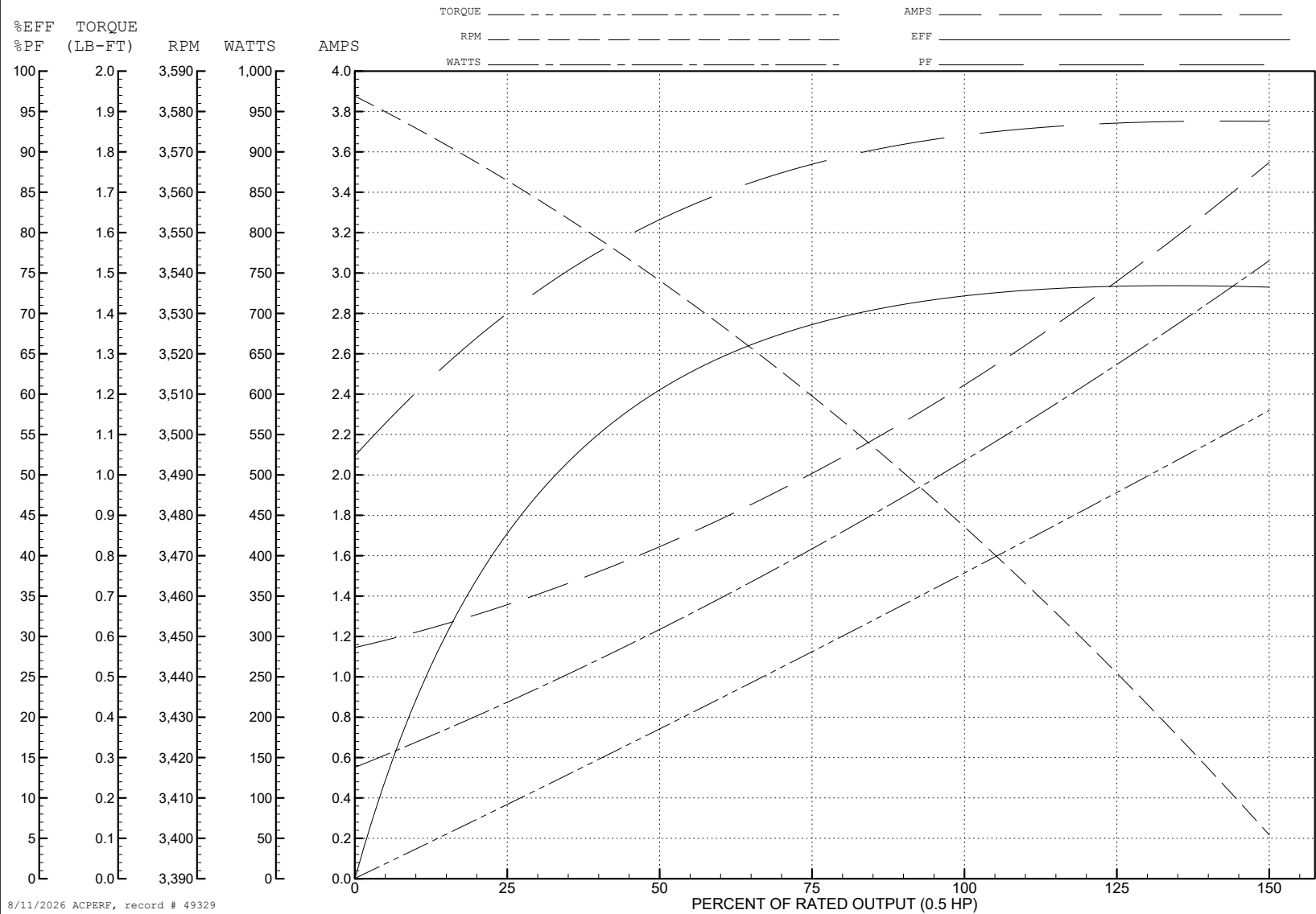
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WINDING # 34WGR142

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



AC Induction Motor Performance Data

Record # 49398

Typical performance - not guaranteed values

Winding: 34WGR142-R001			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	Starting Current		38 A	
Service Factor (S.F.)		1.25	No-load Current		2.28 A	
NEMA Nom. Eff.		72.4 Power Factor	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

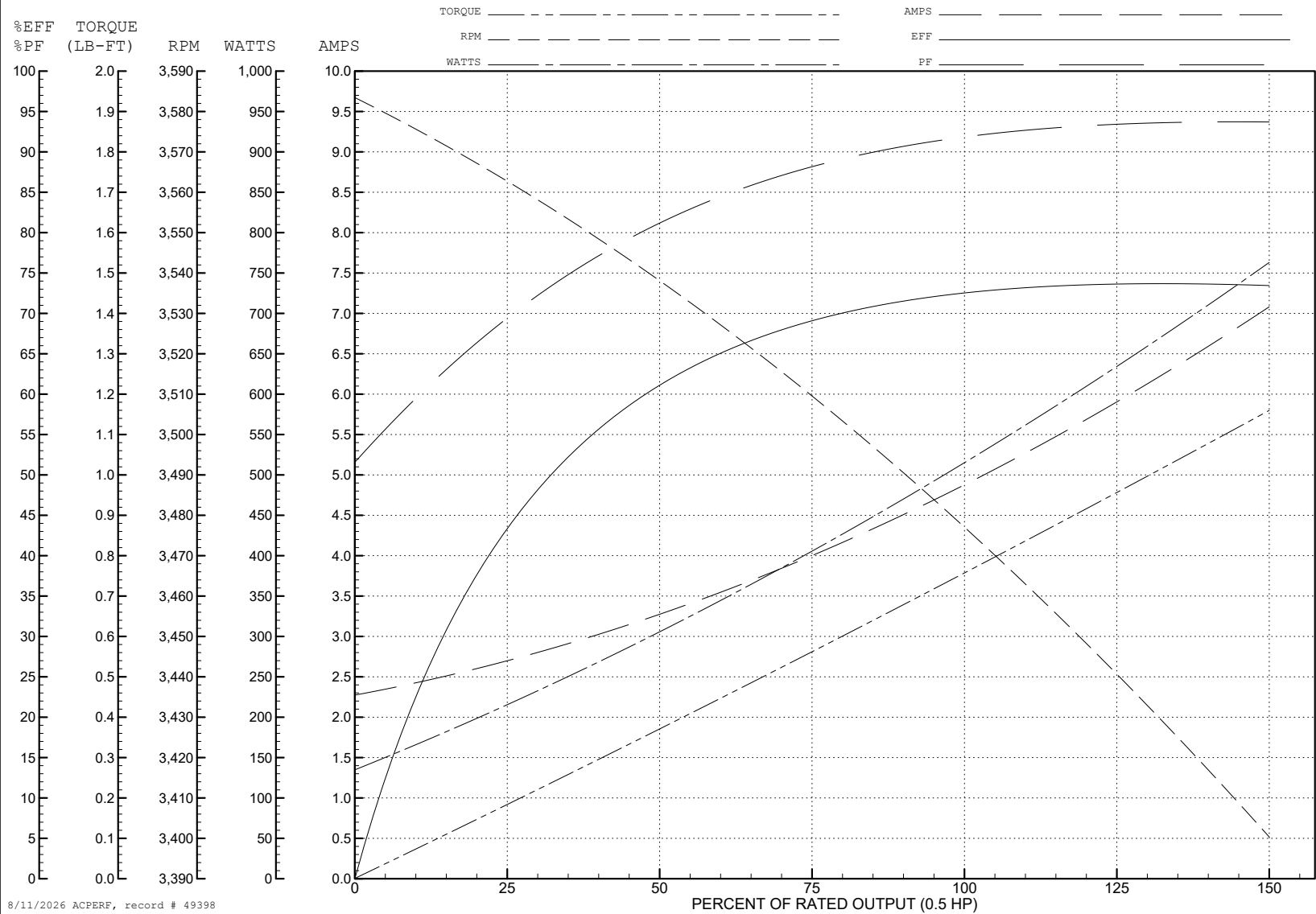
ABB Motors and Mechanical Inc.

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





CD0055

