

ABB BALDOR RELIANCE III

Customer information packet

VEL11304

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3424LC, 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	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	2.350 A @ 230.0 V 3.200 A @ 208.0 V 4.700 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
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	2.4 a

Part Detail

Revision	K
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGR141
Layout	34LYF534
Eff. date	09-16-2026
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	3424LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.73 IN
Power Factor	98
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	1725 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.	VEL11304											
SPEC.	34F534R141G1											
HP	.5											
VOLTS	115/230											
AMP	4.7/2.35											
RPM	1725											
FRAME	56C		HZ	60				PH	1			
SER.F.	1.25	CODE	K	DES	N	CL	B					
F.L. AVG. EFF.	76.2	PF	98									
RATING	40C AMB-CONT											
CC												
DE	6203		ODE	6203								
ENCL	OPEN	SN										
	SFA 5.9/2.95											

AC Induction Motor Performance Data

Record # 47421

Typical performance - not guaranteed values

Winding: 34WGR141-R002			Type: 3424LC		Enclosure: OPEN		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.51 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		4.7/2.35	Breakdown Torque		4.01 LB-FT		
R.P.M.		1725	Pull-up Torque		3.75 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		6.42 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		31.9 A
Service Factor (S.F.)		1.25		No-load Current		1.06 A	
NEMA Nom. Eff.		76.2	Power Factor	98	Line-line Res. @ 25°C		1.6786 Ω A Ph 2.0496 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps		5.9/2.95		Temp. Rise @ S.F. Load		55°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	89	94	95	95	95	94	95
Efficiency	59.9	73	76.8	76.6	73.3	67.1	73.3
Speed	1782.8	1767.7	1748.6	1726.8	1694.2	1648.1	1694
Line amperes	1.56	2.34	3.34	4.39	5.8	7.69	5.8

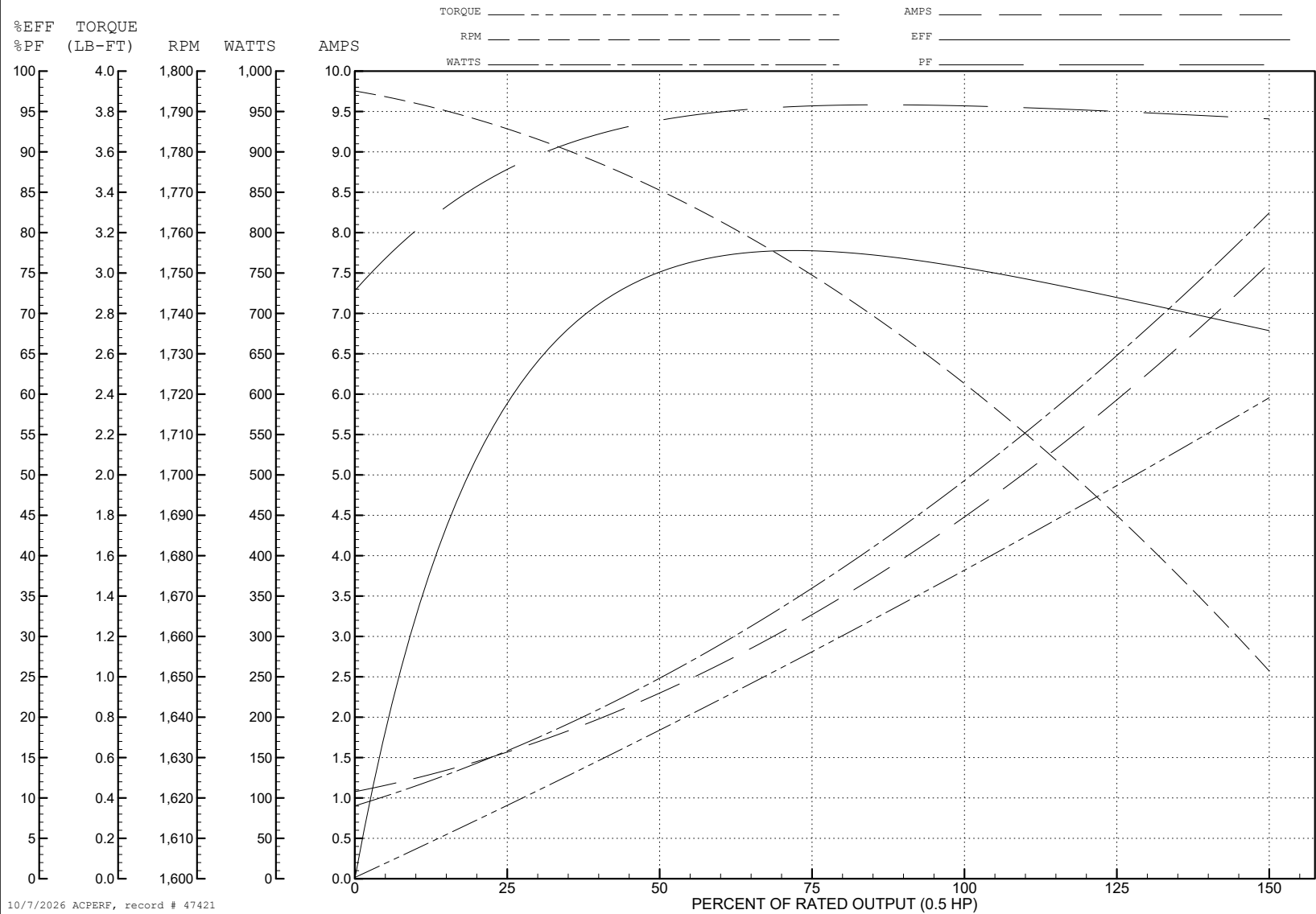
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WINDING # 34WGR141

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424LC

TORQUES (LB-FT): PO=4.01 PU=3.75 LR=6.42 LRA=31.9



AC Induction Motor Performance Data

Record # 49328

Typical performance - not guaranteed values

Winding: 34WGR141-R002			Type: 3424LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.51 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		4.7/2.35	Breakdown Torque		4.01 LB-FT		
R.P.M.		1725	Pull-up Torque		2.84 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		4.87 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		14.97 A
Service Factor (S.F.)		1.25		No-load Current		0.571 A	
NEMA Nom. Eff.		76.2	Power Factor	98	Line-line Res. @ 25°C		6.38 Ω A Ph 2.09 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps		5.9/2.95		Temp. Rise @ S.F. Load		53°C	
				Rotor inertia		0.057 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	89	93	95	96	95	94	95
Efficiency	57.8	71.3	75.5	75.6	72.6	66.9	72.6
Speed	1783	1768	1749	1727	1694	1648	1694
Line amperes	0.809	1.2	1.7	2.22	2.93	3.87	2.93

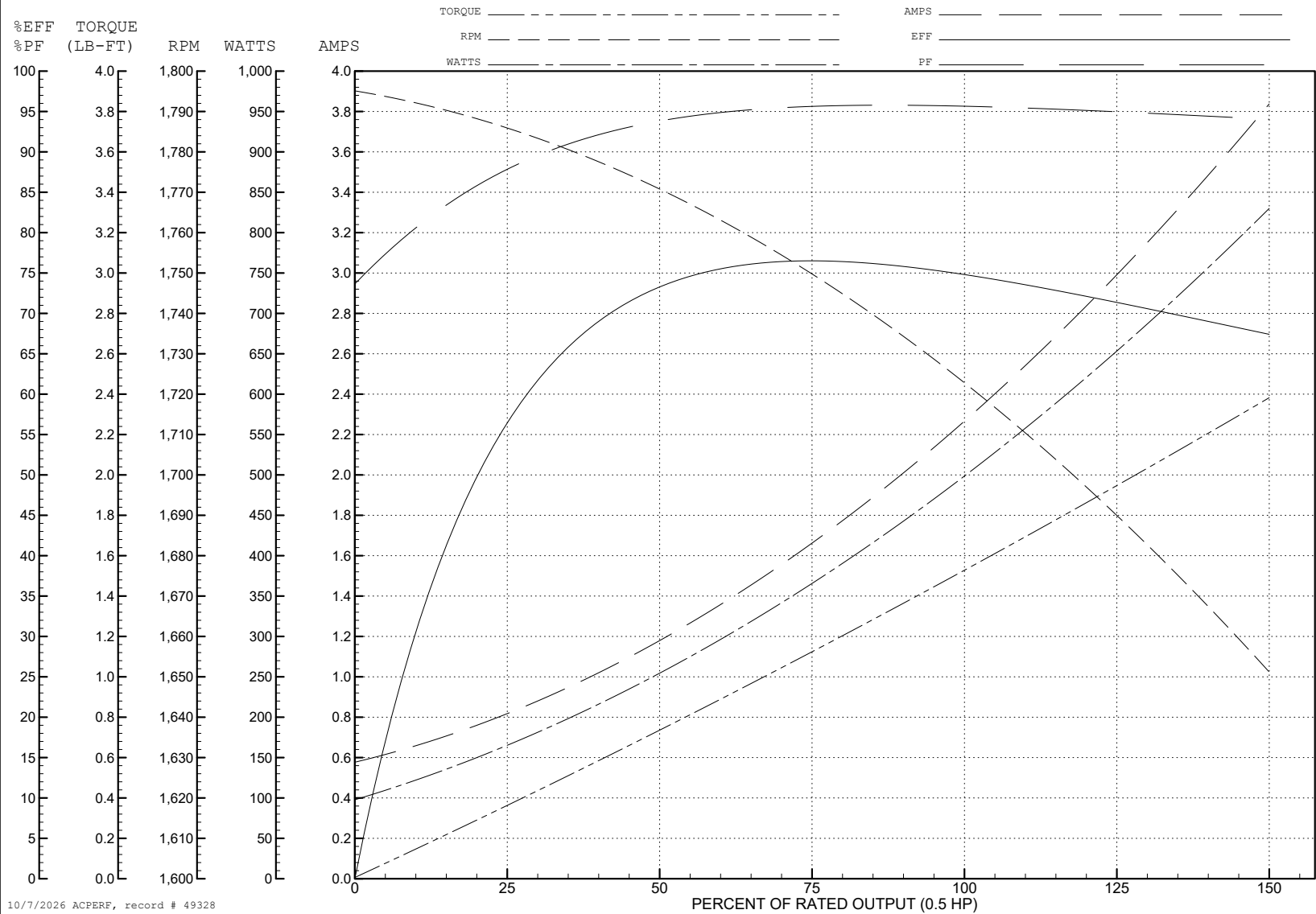
ABB Motors and Mechanical Inc.

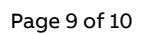
WINDING # 34WGR141

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3424LC

TORQUES (LB-FT): PO=4.01 PU=2.84 LR=4.87 LRA=14.97





CD0055

