

ABB BALDOR RELIANCE III

Customer information packet

EL11209

.5HP, 1725RPM, 1PH, 60HZ, 48, 3424LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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	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	Rigid
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	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.2 %
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	2.4 a

Part Detail

Revision	J
Type	AC
Mech. spec.	34F868
Base	
Status	PRD/A
Elec. spec.	34WGR141
Layout	34LYF868
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	09-26-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3424LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.63 IN
Power Factor	98
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	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.	EL11209										
SPEC.	34F868R141G1										
HP	.5										
VOLTS	115/230										
AMP	4.7/2.35										
RPM	1725										
FRAME	48		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

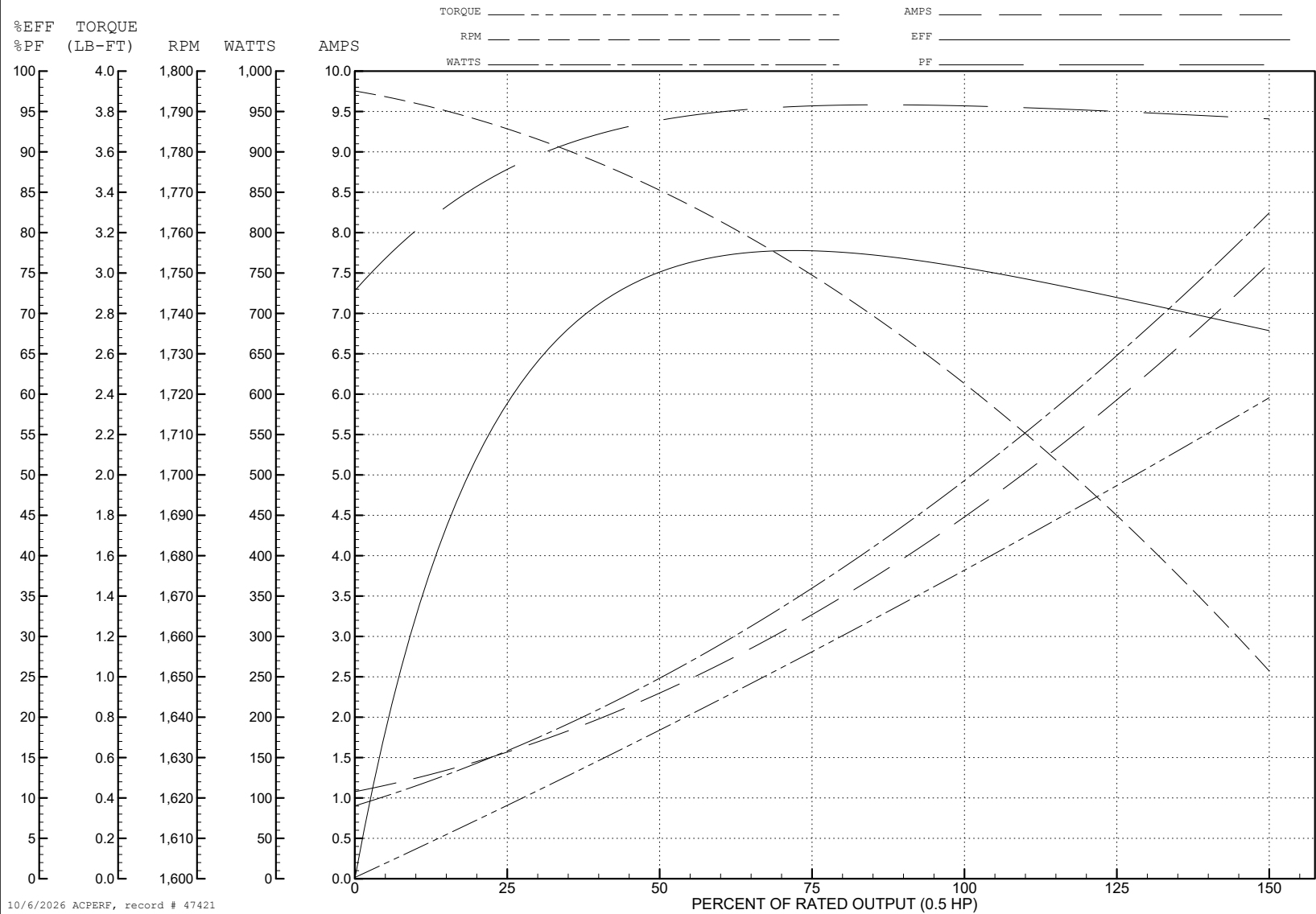
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WINDING # 34WGR141

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		No-load Current		0.571 A	
Service Factor (S.F.)		1.25		Line-line Res. @ 25°C		6.38 Ω A Ph 2.09 Ω B Ph	
NEMA Nom. Eff.		76.2		Power Factor		98	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
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

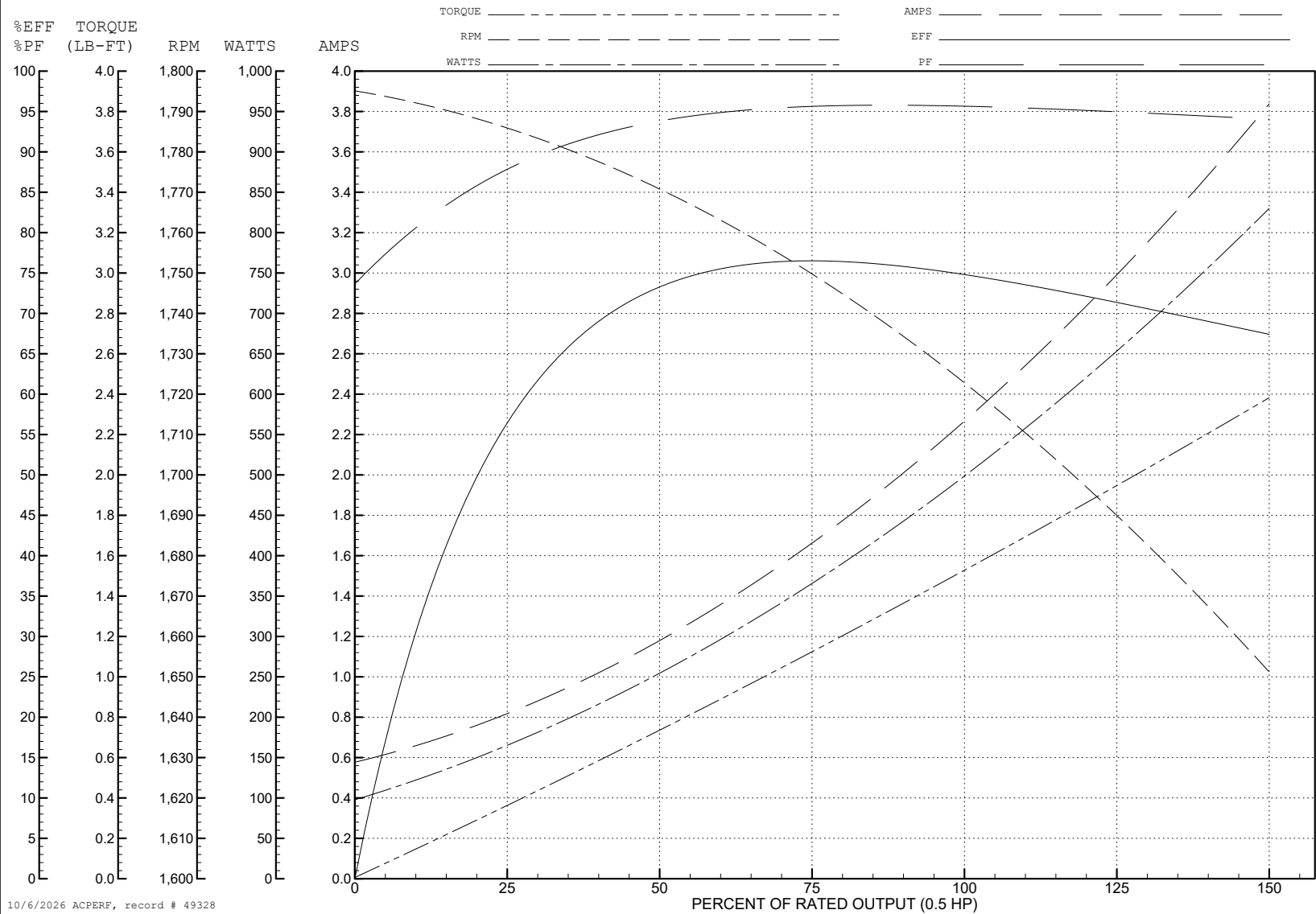
ABB Motors and Mechanical Inc.

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

