

ABB BALDOR RELIANCE III

Customer information packet

M1519

.75/.33HP, 1730/1165RPM, 3PH, 60HZ, 56, 3524M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ .330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	2.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	D
Type	AC
Mech. spec.	35A011
Base	
Status	PRD/A
Elec. spec.	35WGG349
Layout	35LYA011
Eff. date	06-24-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#18 Y
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4 6
Overall Length	13.23 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 rpm 1730 rpm
Speed Code	2S-2W-VT
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

NP1256L									
CAT.NO.	M1519								
SPEC.	35A011G349								
HP	.75/.33								
VOLTS	230								
AMP	2.6/1.8								
RPM	1730/1165								
FRAME	56		HZ		60		PH		3
SER.F.	1.15	CODE		K	DES	B	CLASS		F
NEMA-NOM-EFF			PF						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE		6203				
ENCL	TEFC	SN							
	SFA 2.77								

Parts List

Part number	Description	Quantity
SA414939	SA 35A011G349	1.000 ea
RA406708	RA 35A011G349	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 87809

Preliminary Data Sheet

Winding: 35WGG349-R002			Type: 3524M		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: High Speed Connection		
Rated Output (HP)		.75/.33		Full Load Torque		2.28 LB-FT
Volts		230		Start Configuration		direct on line
Full Load Amps		2.6/1.8		Breakdown Torque		7.79 LB-FT
R.P.M.		1730/1165		Pull-up Torque		4.68 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		6.1 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		16.24 A
Service Factor (S.F.)		1.15		No-load Current		1.81 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		10.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
				Locked-rotor Power Factor		89.7
				Rotor inertia		0.173 lb-ft²

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	52	67	74	81	85	78
Efficiency	54.4	68.2	72.9	74.1	73.4	71.3	73.7
Speed	1783	1768	1752	1733	1709	1682	1719
Line amperes	1.9	2.06	2.21	2.56	2.91	3.35	2.77

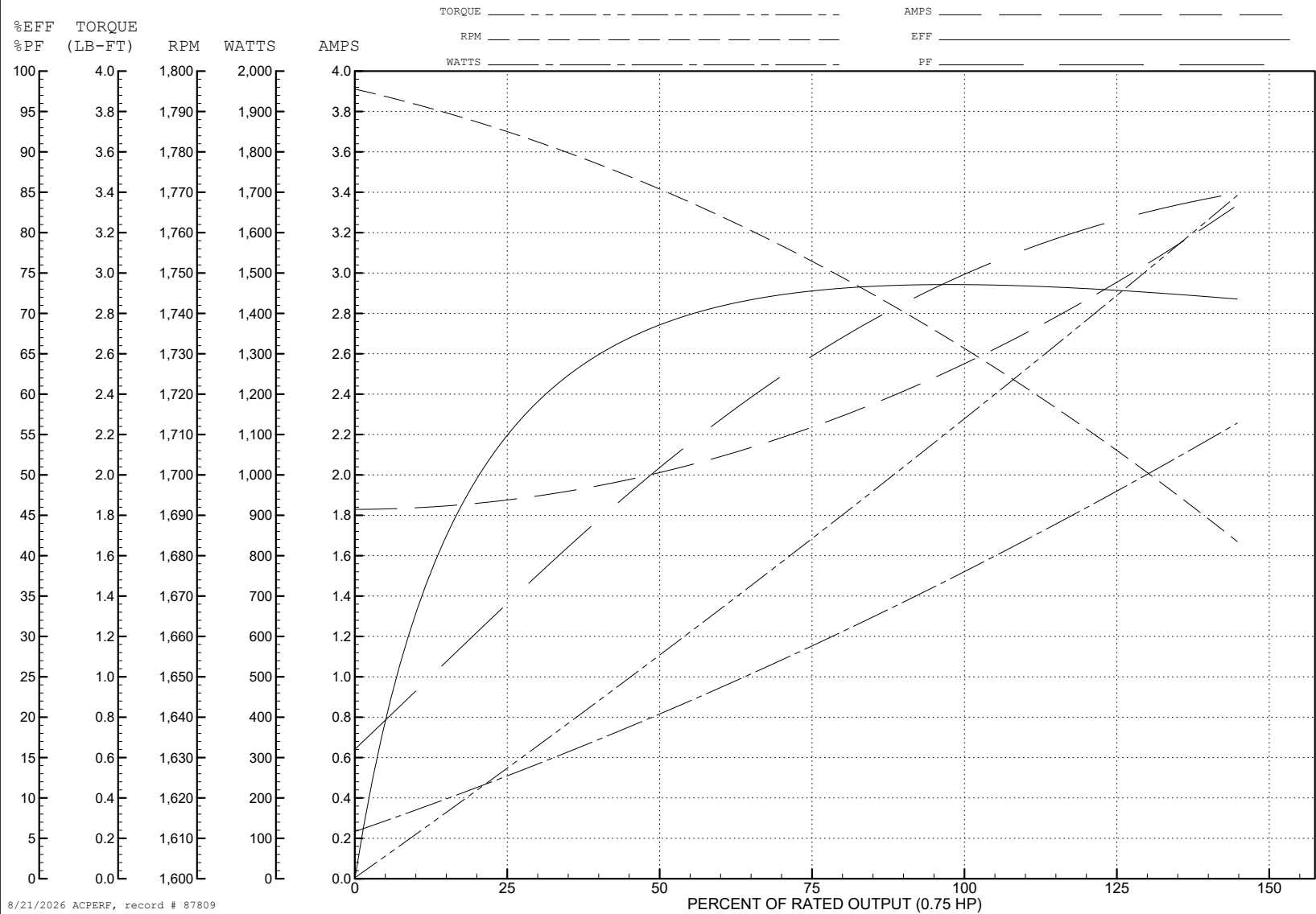
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WINDING # 35WGG349

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1733 RPM 230 V 3524M

TORQUES (LB-FT): PO=7.79 PU=4.68 LR=6.1 LRA=16.24



AC Induction Motor Performance Data

Record # 87810

Preliminary Data Sheet

Winding: 35WGG349-R002			Type: 3524M		Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		.75/.33		Full Load Torque		1.48 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		2.6/1.8		Breakdown Torque		6.14 LB-FT	
R.P.M.		1730/1165		Pull-up Torque		2.77 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		4.09 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		8.58 A
Service Factor (S.F.)		1.15		No-load Current		1.71 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		19.7 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			
				Locked-rotor Power Factor		88.2	
				Rotor inertia		0.173 lb-ft²	

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	36	45	53	61	67	58
Efficiency	34.1	50.2	59	64.1	67	68.5	65.8
Speed	1193	1187	1181	1175	1168	1160	1171
Line amperes	1.71	1.72	1.76	1.82	1.9	2.01	1.87

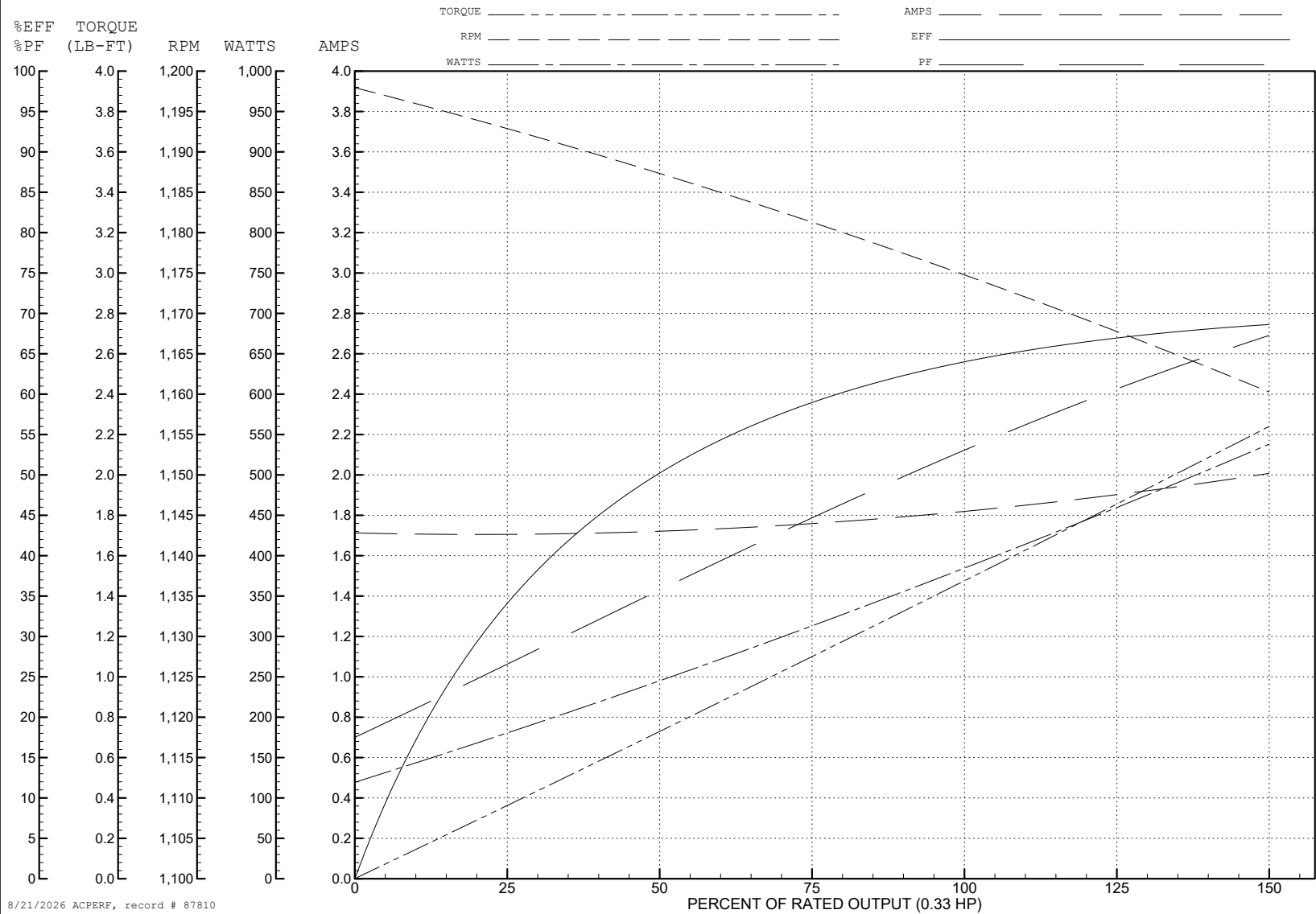
ABB Motors and Mechanical Inc.

WINDING # 35WGG349

Typical performance - not guaranteed values.

0.33 HP 3 PH 60 HZ 1175 RPM 230 V 3524M

TORQUES (LB-FT): PO=6.14 PU=2.77 LR=4.09 LRA=8.58



8/21/2026 ACPERF, record # 87810

