

ABB BALDOR RELIANCE III

Customer information packet

VEL11305

.5HP, 1165RPM, 1PH, 60HZ, 56C, 3524LC, ODTF, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
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	1200 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	2.800 A @ 230.0 V 4.900 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.3 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	J
Type	AC
Mech. spec.	35E019
Base	
Status	PRD/A
Elec. spec.	35WGG062
Layout	35LYE019
Eff. date	04-27-2026
CD Diagram	CD0016A01
Poles	06
Leads	7#18
Proprietary	False
Created date	08-01-2022

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524LC
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.23 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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.	VEL11305										
SPEC.	35E019G062										
HP	.5										
VOLTS	115/230										
AMP	4.9/2.8										
RPM	1165										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.25	CODE	F	DES	N	CL	F				
F.L. AVG. EFF.	75.3	PF	88								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	ODTF	SN									
	SFA 5.6/2.8										

AC Induction Motor Performance Data

Record # 83845

Typical performance - not guaranteed values

Winding: 35WGG062-R001			Type: 3524LC		Enclosure: OPEN	
Nameplate Data			115 V, 60 Hz: High Voltage, Low Speed Connection			
Rated Output (HP)		.5	Full Load Torque		2.262 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		4.9/2.7	Breakdown Torque		4.92 LB-FT	
R.P.M.		1140	Pull-up Torque		4.14 LB-FT	
Hz		60 Phase	Locked-rotor Torque		7.43 LB-FT	
NEMA Design Code		N KVA Code	Starting Current		22.3 A	
Service Factor (S.F.)		1.25	No-load Current		2.5 A	
NEMA Nom. Eff.		76.2 Power Factor	Line-line Res. @ 25°C		1.9537 Ω A Ph 2.4113 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		34°C	
S.F. Amps		5.9/3	Temp. Rise @ S.F. Load		43°C	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	76	83	88	90	91	90
Efficiency	49.7	66.6	73.7	76.3	76.1	72.9	76.1
Speed	1190.5	1182.9	1174.7	1164.5	1153	1134.4	1153
Line amperes	2.72	3.24	3.97	4.87	5.92	7.34	5.92

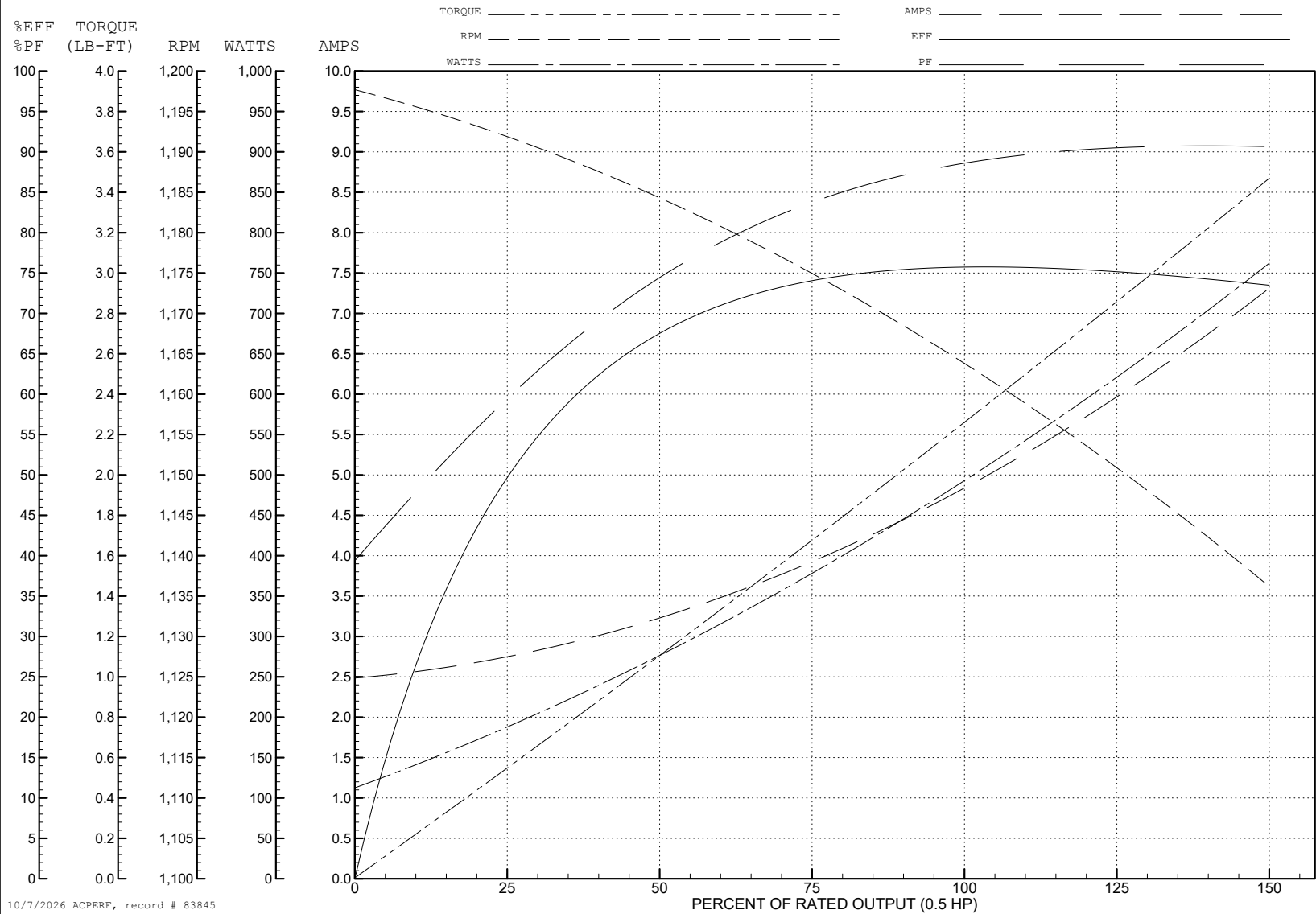
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WINDING # 35WGG062

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1140 RPM 115 V 3524LC

TORQUES (LB-FT): PO=4.92 PU=4.14 LR=7.43 LRA=22.3



AC Induction Motor Performance Data

Record # 83847

Typical performance - not guaranteed values

Winding: 35WGG062-R001			Type: 3524LC		Enclosure: OPEN		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		2.251 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		4.9/2.7	Breakdown Torque		5.72 LB-FT		
R.P.M.		1140	Pull-up Torque		5.25 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		6.26 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		17.6 A
Service Factor (S.F.)		1.25		No-load Current		1.63 A	
NEMA Nom. Eff.		76.2	Power Factor	84	Line-line Res. @ 25°C		7.8011 Ω A Ph 2.401 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		39°C	
S.F. Amps		5.9/3		Temp. Rise @ S.F. Load		40°C	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	68	74	81	88	93	88
Efficiency	35.7	55.2	66.5	73.2	76.7	77.8	76.7
Speed	1190.7	1184	1177.2	1169	1158.5	1146.9	1158
Line amperes	1.9	2.19	2.48	2.74	3.01	3.36	3.01

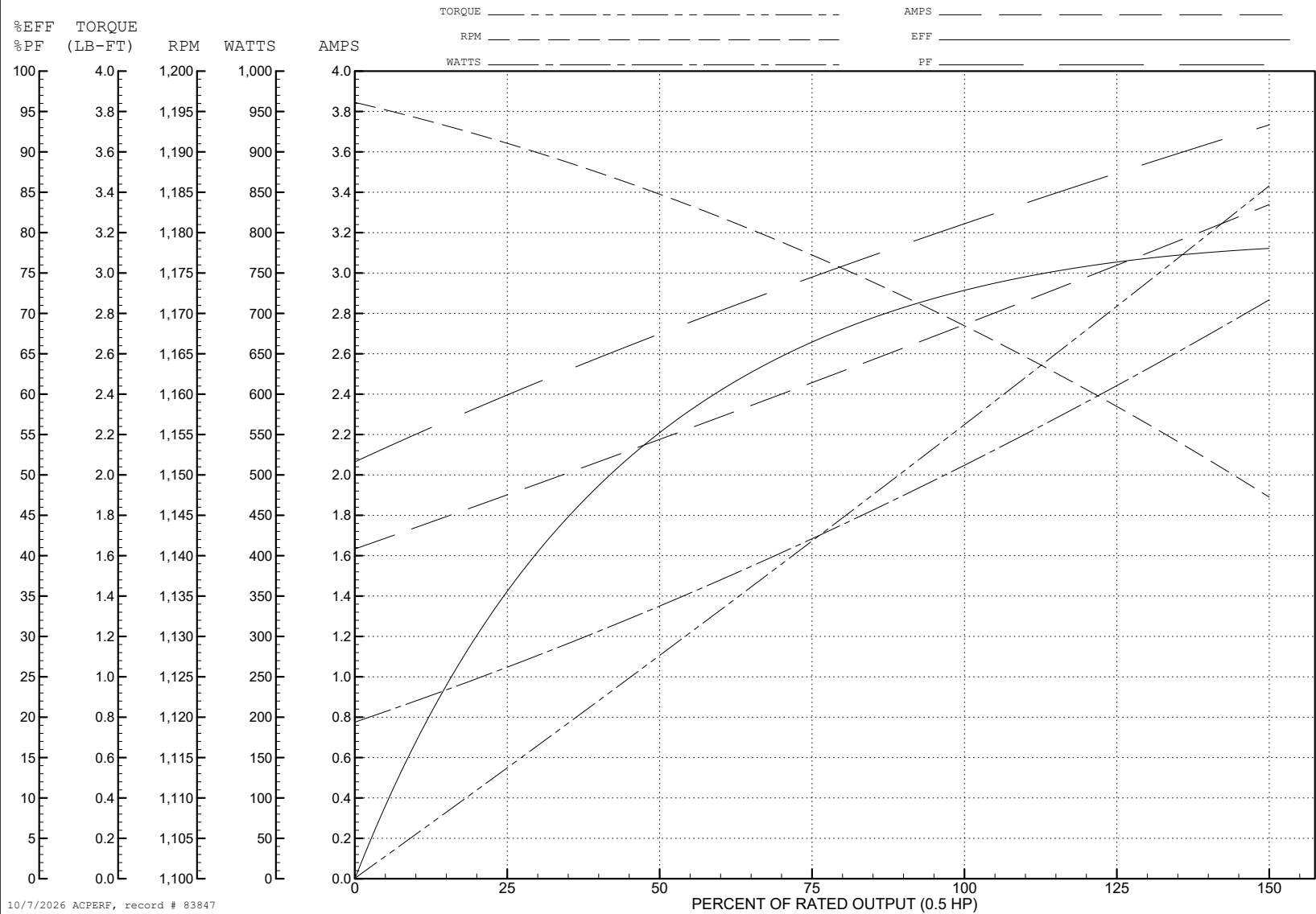
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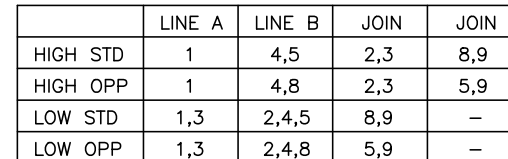
WINDING # 35WGG062

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1140 RPM 230 V 3524LC

TORQUES (LB-FT): PO=5.72 PU=5.25 LR=6.26 LRA=17.6





1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS