

ABB BALDOR RELIANCE III

Customer information packet

JL3510A

1HP, 1750RPM, 1PH, 60HZ, 56J, 3528L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 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	C UR US
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	12.900 A @ 115.0 V 6.700 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	35F083
Base	
Status	PRD/A
Elec. spec.	35WGG240
Layout	35LYF083
Eff. date	06-09-2026
CD Diagram	CD0094
Poles	04
Leads	4#16 A&J,1#14 #4TH
Proprietary	False
Created date	11-14-2024

KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.72 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	JL3510A										
SPEC.	35F083G240G2										
HP	1										
VOLTS	115/230										
AMP	12.9/6.7										
RPM	1750										
FRAME	56J			HZ		60		PH		1	
SER.F.	1.00	CODE	J	DES	L	CL	F				
NEMA-NOM-EFF	74	PF	68								
RATING	40C AMB-CONT										
CC											
DE	6205	ODE	6203								
ENCL	TEFC	SN									

AC Induction Motor Performance Data

Record # 88865

Typical performance - not guaranteed values

Winding: 35WGG240-R005				Type: 3528L		Enclosure: OPEN		
Nameplate Data				115 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1		Full Load Torque		3.01 LB-FT		
Volts		115/230		Start Configuration		direct on line		
Full Load Amps		12.5/6.3		Breakdown Torque		9.7 LB-FT		
R.P.M.		1750		Pull-up Torque		9.3 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		16.5 LB-FT		
NEMA Design Code		L	KVA Code	J	Starting Current		96.2 A	
Service Factor (S.F.)		1		No-load Current		9.53 A		
NEMA Nom. Eff.		74	Power Factor	68	Line-line Res. @ 25°C		0.525 Ω A Ph 1.17 Ω B Ph	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		36°C
						Locked-rotor Power Factor		94.8
						Rotor inertia		0.203 lb-ft²

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	48	60	69	76	80
Efficiency	53.1	67.5	72.9	74.8	74.6	72.8
Speed	1786	1775	1763	1750	1735	1714
Line amperes	9.3	9.98	11.06	12.51	14.28	16.82

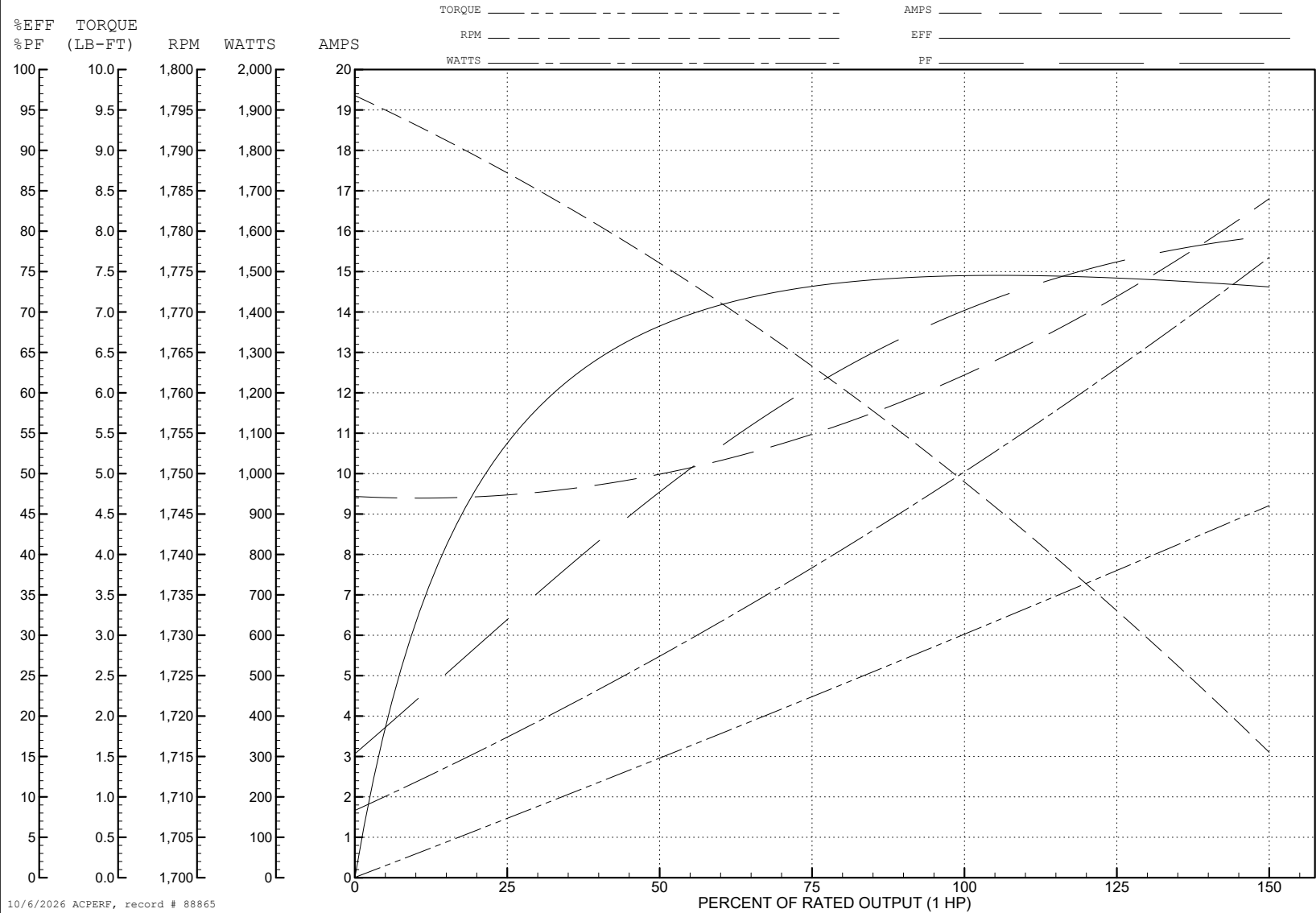
ABB Motors and Mechanical Inc.

WINDING # 35WGG240

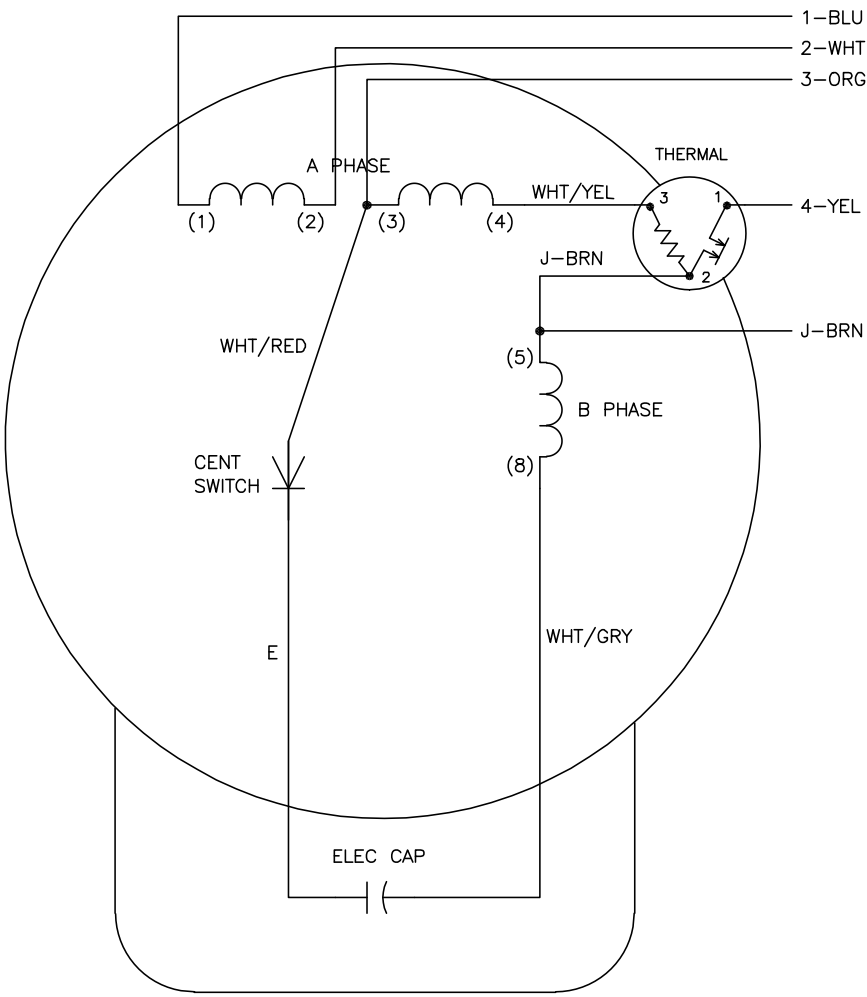
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L

TORQUES (LB-FT): PO=9.7 PU=9.3 LR=16.5 LRA=96.2



CD0094



	LINE A	LINE B	JOIN	JOIN
HIGH	1	4	2,3	J
LOW	1,3	4	2,J	—

- NOTES:
- 1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
 - 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

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REV. DESC: ADD B PH AMPS THRU HTR HVC TO DESCRIPTION		
REV. LTR: F	VERSION: 02	TDR: 000001258306
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MTL: —	© □	

BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, B PH AMPS THRU HTR HVC, 5 LEAD
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