

ABB BALDOR RELIANCE III

Customer information packet

L3510A

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56H
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 208.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.900 A @ 115.0 V 6.700 A @ 208.0 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

Part Detail

Revision	M
Type	AC
Mech. spec.	35J383
Base	
Status	PRD/A
Elec. spec.	35WGG240
Layout	35LYJ383
Eff. date	06-09-2026
CD Diagram	CD0008
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH Y
Proprietary	False
Created date	12-19-2022

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	12.91 IN
Power Factor	68
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	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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.	L3510A								
SPEC.	35J383G240								
HP	1								
VOLTS	115/208-230								
AMP	12.9/6.7								
RPM	1750								
FRAME	56H			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						

Accessories

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

AC Induction Motor Performance Data

Record # 113825

Typical performance - not guaranteed values

Winding: 35WGG240-R009			Type: 3528L		Enclosure: TEFC	
Nameplate Data			115 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		3.01 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		12.9/6.7	Breakdown Torque		9.7 LB-FT	
R.P.M.		1750	Pull-up Torque		7.8 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		13.9 LB-FT	
NEMA Design Code		L	KVA Code		J	
Service Factor (S.F.)		1	No-load Current		9.53 A	
NEMA Nom. Eff.		74	Power Factor		68	
Rating - Duty		40C AMB-CONT		Line-line Res. @ 25°C		0.525 Ω A Ph 1.17 Ω B Ph
				Temp. Rise @ Rated Load		72°C
				Locked-rotor Power Factor		93.9
				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

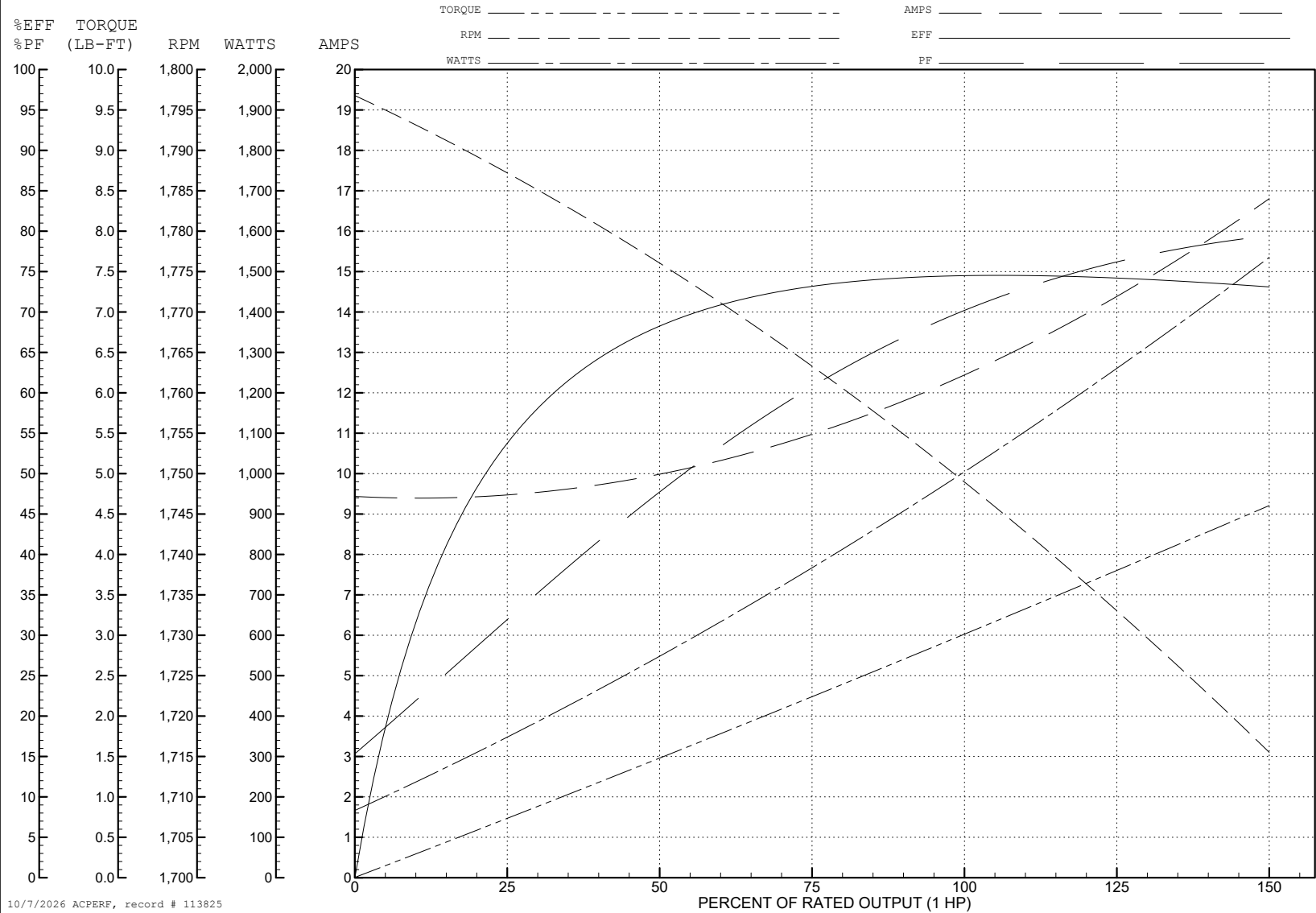
ABB Motors and Mechanical Inc.

WINDING # 35WGG240

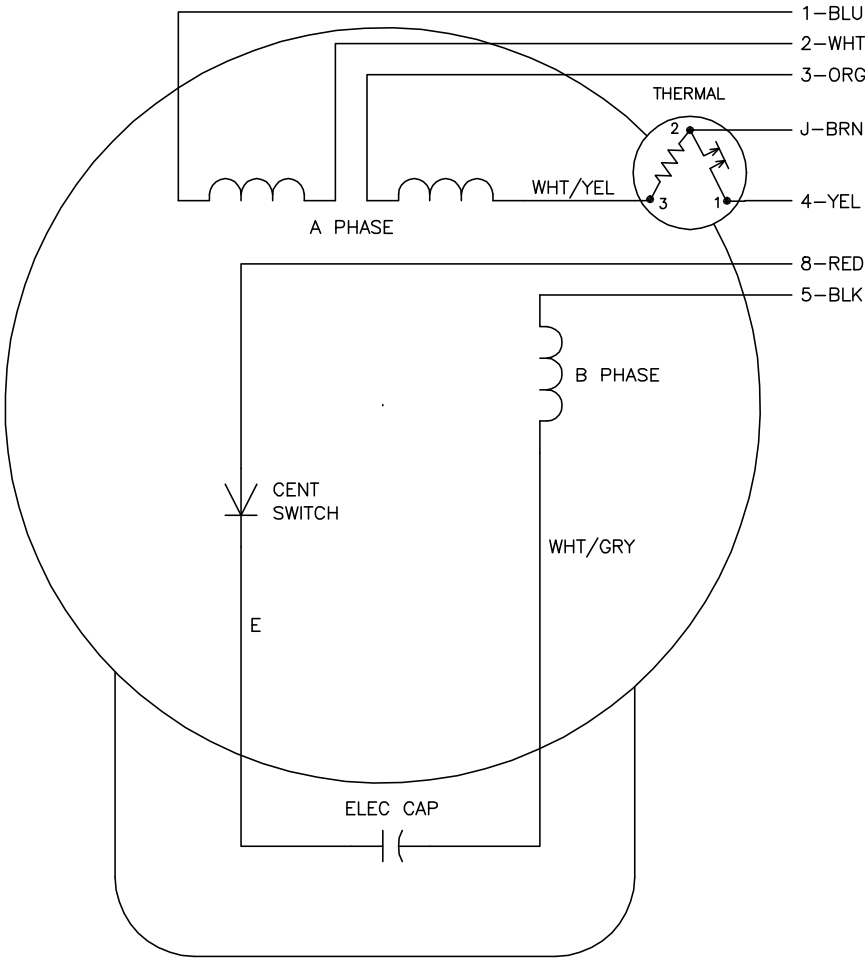
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3



CD0008



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

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

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008