

ABB BALDOR RELIANCE III

Customer information packet

FDAOL3521A

1 AIR OVERHP, 1750RPM, 1PH, 60HZ, 56H, 3528LC

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, Cap 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	4.400 A @ 230.0 V 4.910 A @ 208.0 V 8.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a

Part Detail

Revision	A
Type	AC
Mech. spec.	35E3271
Base	
Status	PRD/A
Elec. spec.	35WGG397
Layout	35LYE3271
Eff. date	05-20-2025
CD Diagram	CD0320
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	11-21-2024

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.80 IN
Power Factor	89
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	1.20
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	FDAOL3521A								
SPEC.	35E3271G397G1								
HP	1 AIR OVER								
VOLTS	115/208-230								
AMP	8.8/4.91-4.4								
RPM	1750								
FRAME	56H	HZ	60		PH		1		
SER.F.	1.20	CODE	K	DES	L		CL		F
NEMA-NOM-EFF	81.5	PF	89						
RATING	40C AMB-CONT								
CC									
DE	6205	ODE		6203					
ENCL	TEFC	SN							
	SFA 10.3/5.91-5.15								

AC Induction Motor Performance Data

Record # 109519

Typical performance - not guaranteed values

Winding: 35WGG397-R009			Type: 3528LC		Enclosure: TEAO		
Nameplate Data			115 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		1 AIR OVER	Full Load Torque		3 LB-FT		
Volts		115/208-230	Start Configuration		direct on line		
Full Load Amps		8.8/4.91-4.4	Breakdown Torque		9.1 LB-FT		
R.P.M.		1750	Pull-up Torque		6.9 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		10.6 LB-FT	
NEMA Design Code		L	KVA Code	K			
Service Factor (S.F.)		1.2	Starting Current		77.7 A		
NEMA Nom. Eff.		81.5	Power Factor	89			
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		40°C
S.F. Amps		10.3/5.91-5.15	Temp. Rise @ S.F. Load		49°C		
			Locked-rotor Power Factor		96		
			Rotor inertia		0.203 lb-ft²		

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	75	84	89	91	93	91
Efficiency	67.4	79.1	82.2	82.3	80.6	77.3	80.9
Speed	1786	1775	1762	1748	1730	1707	1734
Line amperes	4.35	5.5	7.02	8.84	10.98	13.53	10.6

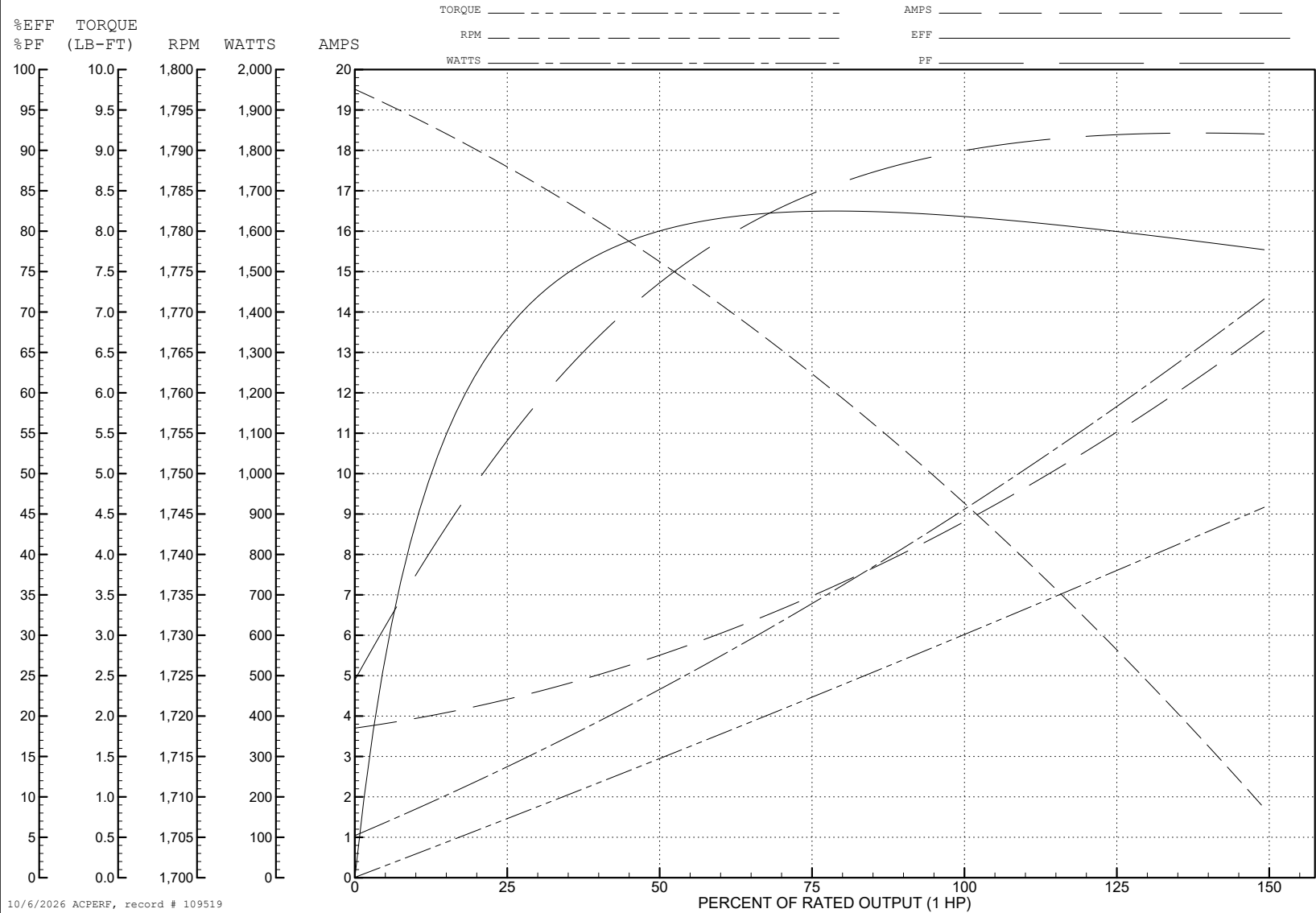
ABB Motors and Mechanical Inc.

WINDING # 35WGG397

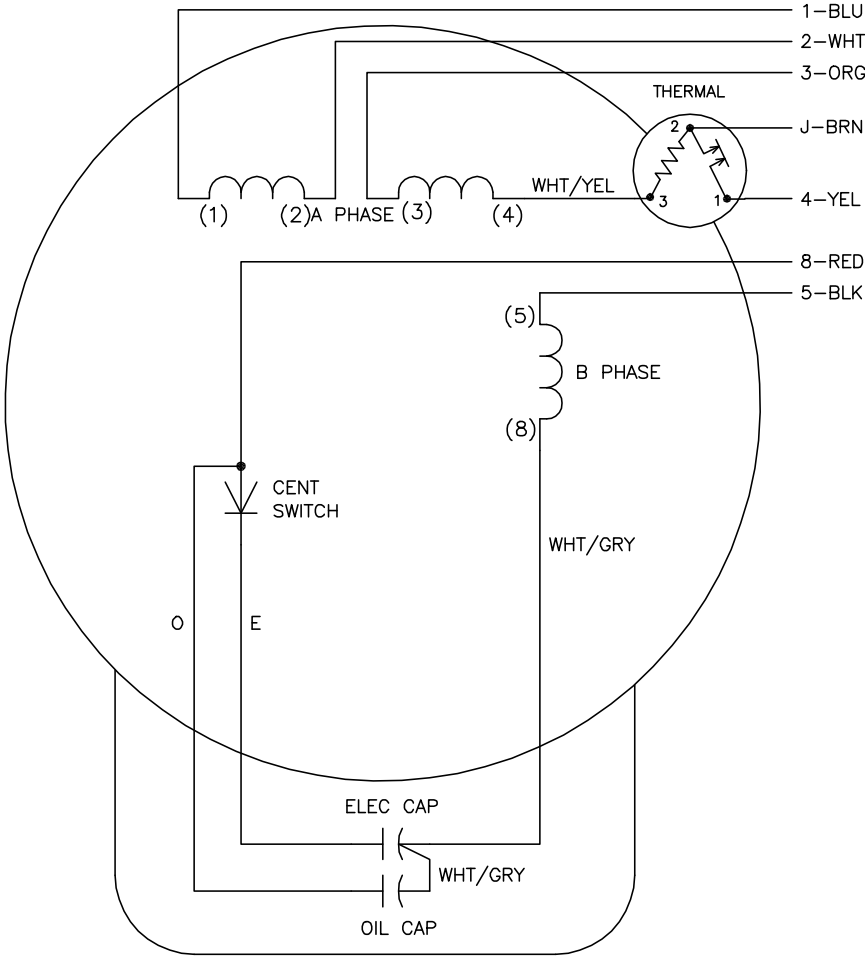
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=9.1 PU=6.9 LR=10.6 LRA=77.7



CD0320



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

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REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02: 21: 00 08/28/2015	BY: ENALEMO
MTL: —	© □	

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD
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