

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								

Parts List

Part number	Description	Quantity
SA432599	SA 35E3271G397G1	1.000 ea
RA424863	RA 35E3271G397G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 ea
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 ea
35EP3102A50	FR ENDPLATE, MACH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	2.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
HW5101A01	PBS 6203M BELLEVILLE WSHR BEARING ENGRS	2.000 ea
35EP3123G00	MASTER DE,205 BRG,1.623SH,#26 DRN	1.000 ea
HW4600H11	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
35GS1002	GASKET,1/16 THICK LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.010 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFASST SG, 787.105, TAN	0.017 ga
SP5077A15	MDL 35 TERM PANEL SWITCH, NO HARDWARE, W	1.000 ea
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea

LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea

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	Starting Current		77.7 A
Service Factor (S.F.)		1.2	No-load Current		3.76 A		
NEMA Nom. Eff.		81.5	Power Factor	89	Line-line Res. @ 25°C		0.566 Ω A Ph 1.17 Ω B Ph
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

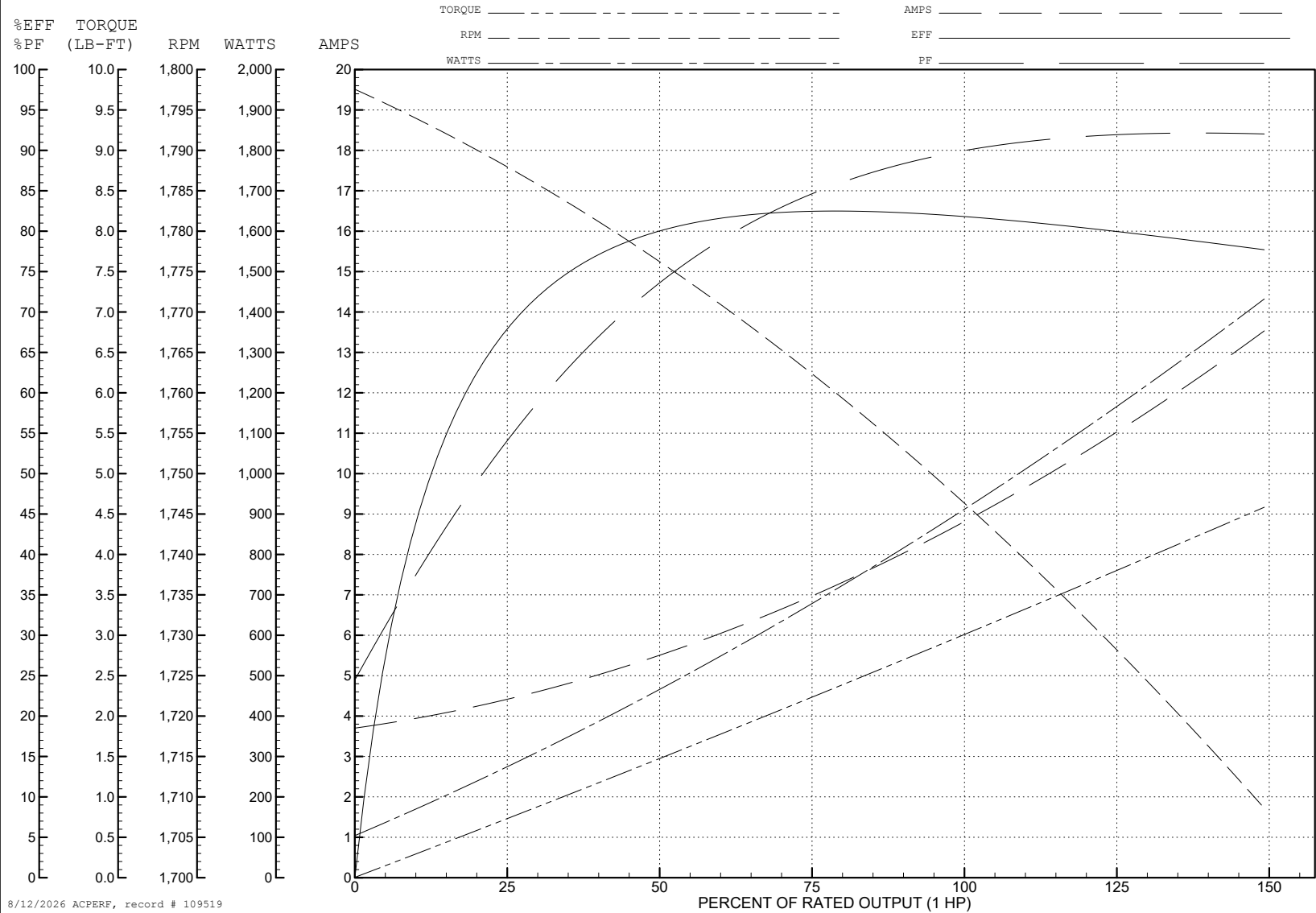
ABB Motors and Mechanical Inc.

WINDING # 35WGG397

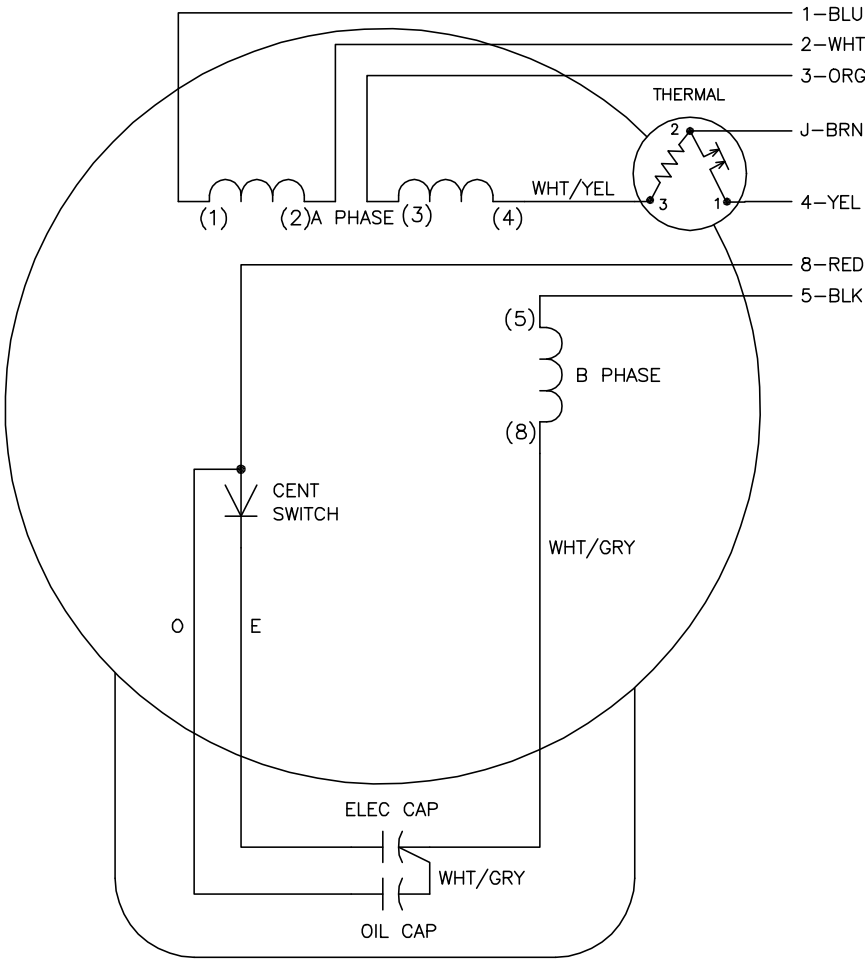
Typical performance - not guaranteed values.

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.

CD0320

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
SH 1 of 1