

ABB BALDOR RELIANCE III

Customer information packet

GSL3509M

1.5HP, 1750RPM, 1PH, 60HZ, 56Z, 3522LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56Z
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	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	6.100 A @ 230.0 V 6.700 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35G630
Base	
Status	PRD/A
Elec. spec.	35WGK596
Layout	35LYG630
Eff. date	02-03-2025
CD Diagram	CD0370
Poles	04
Leads	2#16 A PH,3#18 B&J,2#18 P
Proprietary	False
Created date	12-13-2024

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.29 IN
Power Factor	98
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	1.15
Shaft Diameter	0.875 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
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	GSL3509M								
SPEC.	35G630K596G1								
HP	1.5								
VOLTS	208-230								
AMP	6.7-6.1								
RPM	1750								
FRAME	56Z		HZ	60		PH	1		
SER.F.	1.15		CODE	H	DES	L	CL	F	
NEMA-NOM-EFF	80		PF	98					
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC		SN						

AC Induction Motor Performance Data

Record # 110560

Typical performance - not guaranteed values

Winding: 35WGK596-R001			Type: 3522LC		Enclosure: TEFC			
Nameplate Data				230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1.5		Full Load Torque		4.487 LB-FT		
Volts		208-230		Start Configuration		direct on line		
Full Load Amps		6.7-6.1		Breakdown Torque		11.1 LB-FT		
R.P.M.		1750		Pull-up Torque		8.21 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		9.59 LB-FT		
NEMA Design Code		L	KVA Code	H	Starting Current		46.3 A	
Service Factor (S.F.)		1.15		No-load Current		2.44 A		
NEMA Nom. Eff.		80	Power Factor	98	Line-line Res. @ 25°C		2.5587 Ω A Ph 4.8083 Ω B Ph	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		77°C
S.F. Amps						Temp. Rise @ S.F. Load		88°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	81	92	96	98	98	98	98
Efficiency	52.4	71.1	78	81.2	81.2	79.2	81.2
Speed	1787.9	1777.1	1765.6	1751.6	1735.9	1714.4	1742
Line amperes	2.84	3.7	4.85	6.14	7.59	9.34	7.01

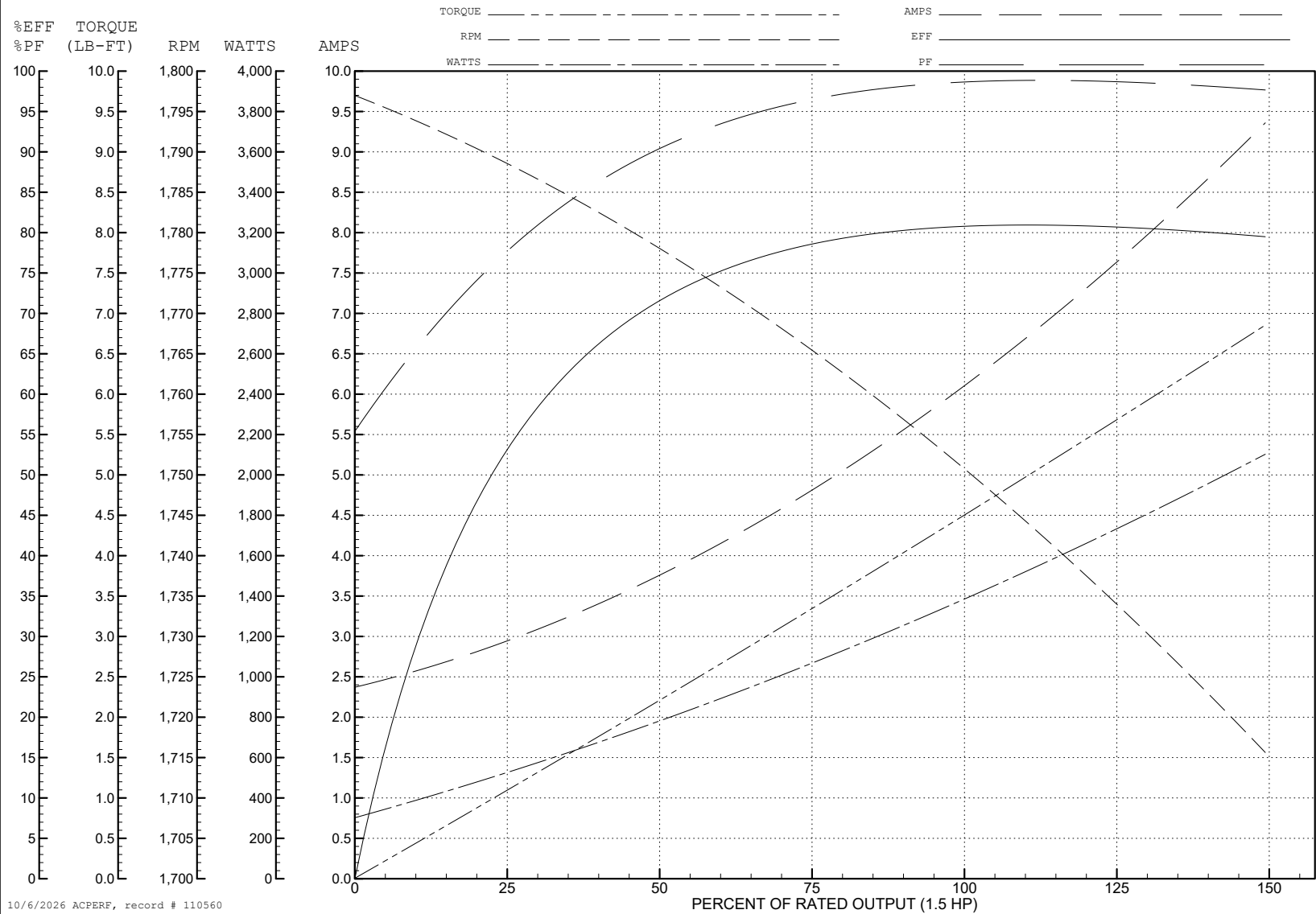
ABB Motors and Mechanical Inc.

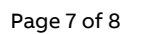
WINDING # 35WGK596

Typical performance - not guaranteed values.

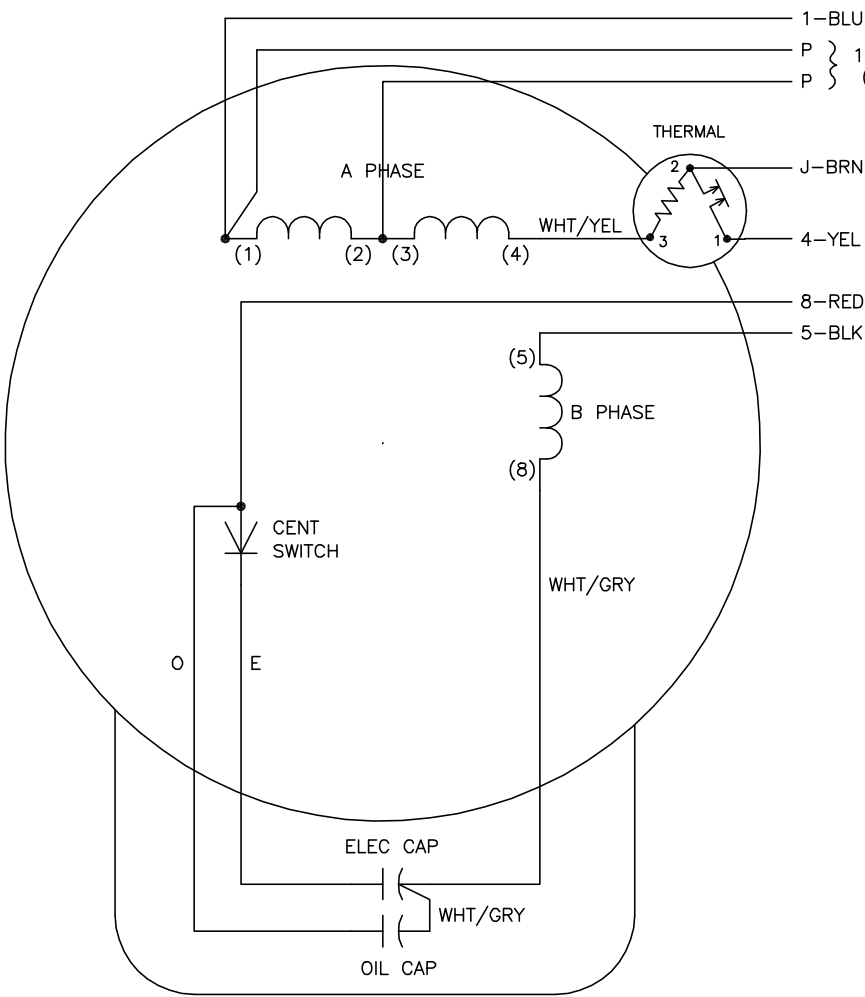
1.5 HP 1 PH 60 HZ 1750 RPM 230 V 3522LC

TORQUES (LB-FT): PO=11.1 PU=8.21 LR=9.59 LRA=46.3





CD0370



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	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 OPTIONAL THERMAL CONNECTION

REV. LTR: F

VERSION: 01

TDR: 000000373039

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FILE: \AAA\00020\808

REVISED: 11:51:15 08/11/2005

MTL: -

BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, THERMAL, 7LDS, 1/2 LV ACCESS TAP

CD0370