ABB BALDOR RELIANCE

Customer information packet

WWL3515T

2HP, 3450RPM, 1PH, 60HZ, 145TYZ, 3535LC, TEFC
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/18/2026 3:38:55 PM

Specifications

Enclosure	TEFC
Frame	143TYZ
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	C UR US
	CURUS
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	24.000 A @ 115.0 V
	12.000 A @ 230.0 V
	12.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	35Y524
Base	
Status	PRD/A
Elec. spec.	35WGY010
Layout	35LYY524
Eff. date	07-24-2024
CD Diagram	CD0016A01
Poles	02
Leads	4#14 A PH,3#18 B PH
Proprietary	False
Created date	12-07-2009

Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3535LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.56 IN
Power Factor	71
Product Family	General Purpose
Product Type	WOODWORKING MOTORS
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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	None
Winding Thermal 2	None

Nameplate

	NP1256L							
CAT.NO.								
SPEC.	35Y524Y010G1							
HP	2							
VOLTS	115/208-230							
AMP	24/12							
RPM	3450							
FRAME	143TYZ	**HZ**	60		**PH**	1		
SER.F.	1.00	**CODE**	L	**DES**	L	**CLASS**	F	
NEMA-NOM-EFF	70	**PF**	71					
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 # 10123
Typical performance - not guaranteed values

Winding: 35WGY010-R001	**Type:** 3535LC	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			24/12	**Breakdown Torque**	11.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	4 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7 LB-FT
NEMA Design Code	L	**KVA Code**	L	**Starting Current**	160 A
Service Factor (S.F.)			1	**No-load Current**	17.1 A
NEMA Nom. Eff.	70	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.169 Ω A Ph 1.26 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	97°C

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	55	65	73	78	82
Efficiency	43.9	60	67.7	71.9	74.1	75.1
Speed	3576	3559	3542	3524	3505	3484
Line amperes	18.1	19.8	22.1	24.9	28.1	31.8

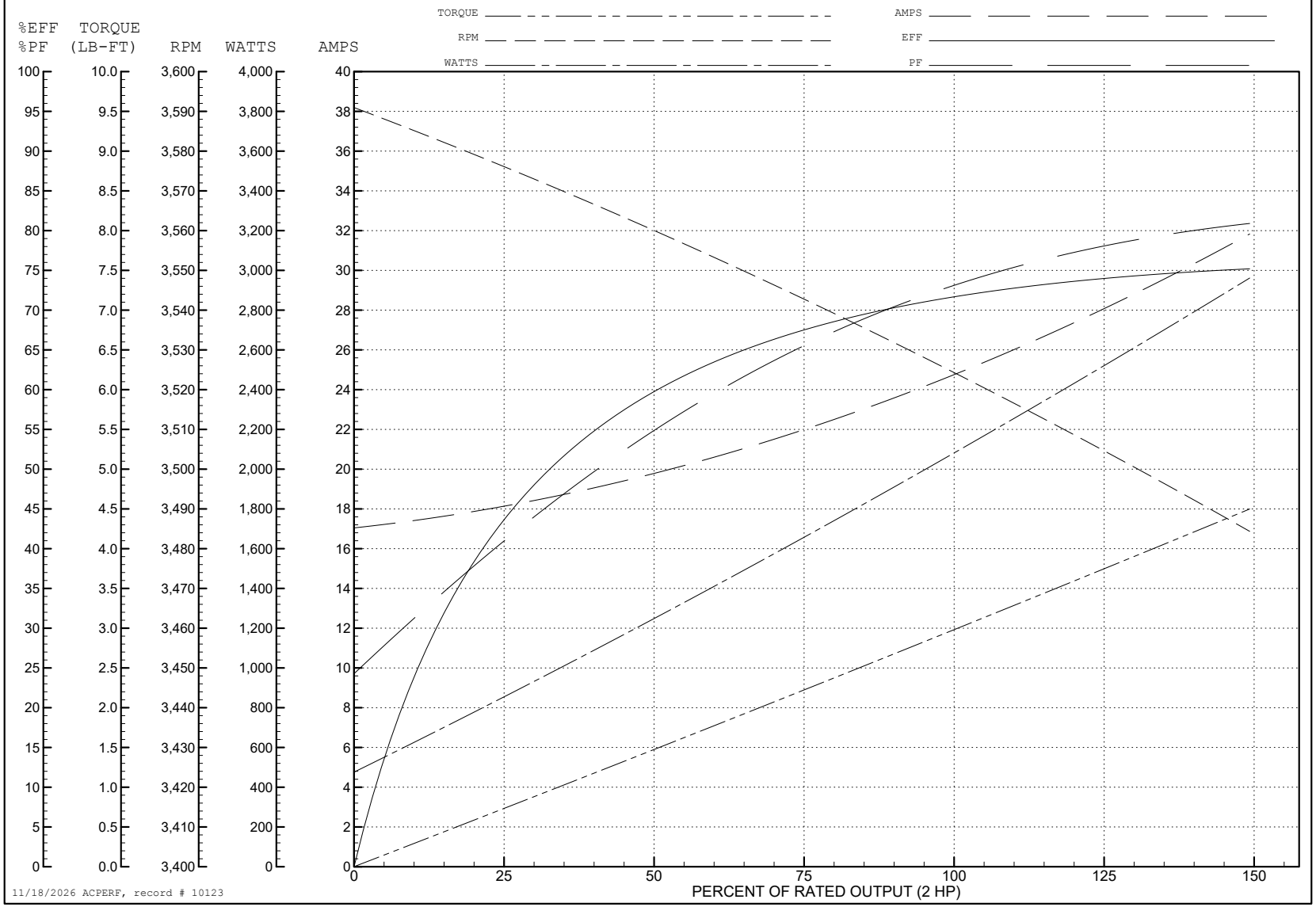
ABB Motors and Mechanical Inc.

WINDING # 35WGY010

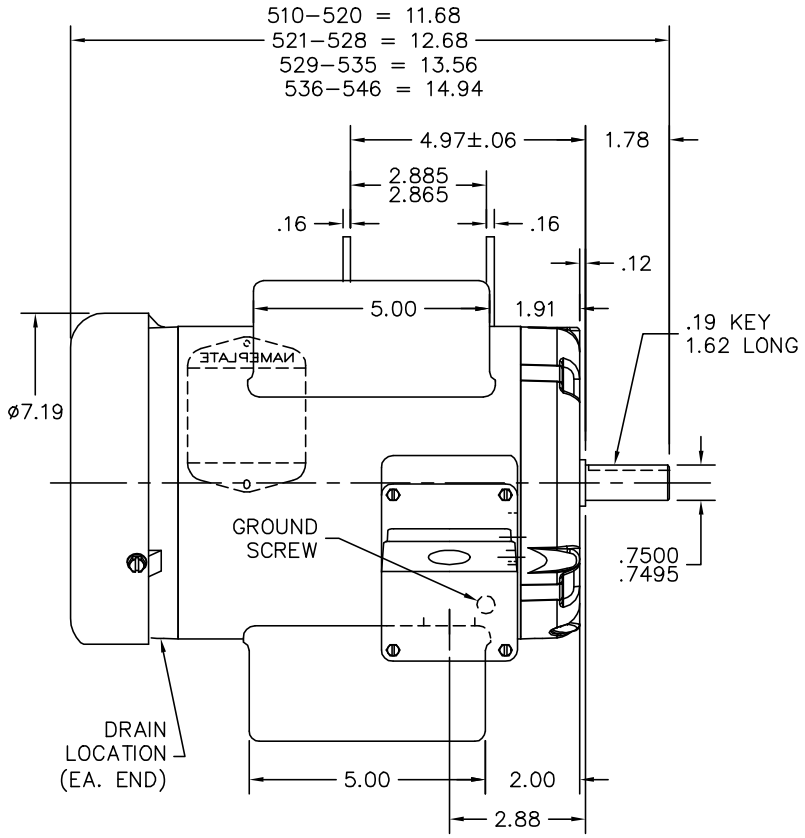
2 HP 1 PH 60 HZ 3450 RPM 115 V 3535LC

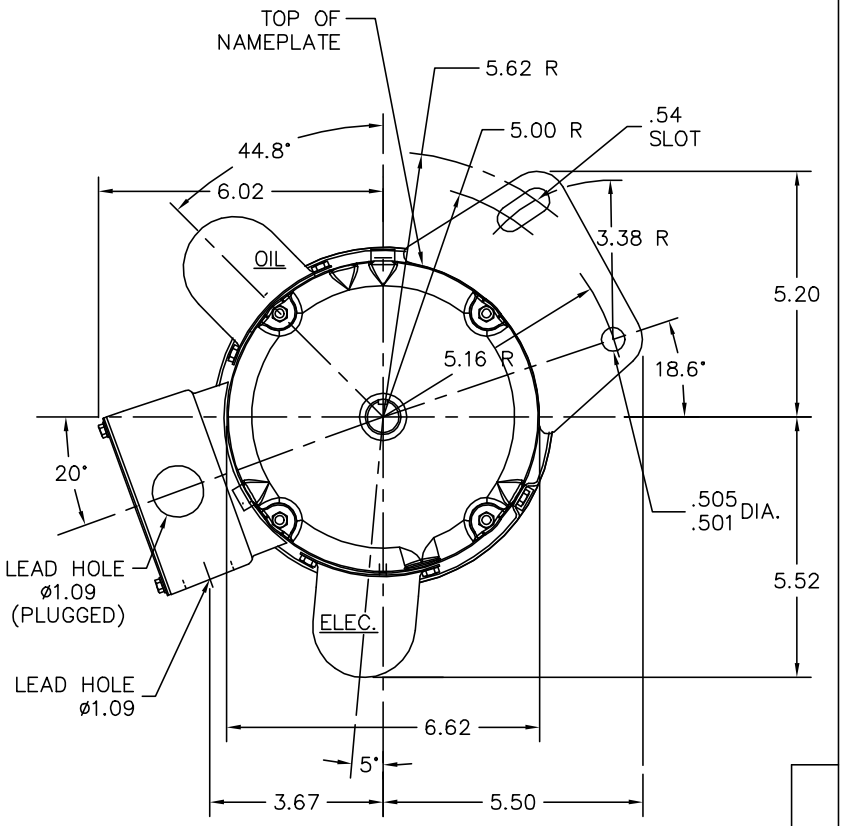
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=11.5 PU=4 LR=7 LRA=160



35LYY524





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REPLACE ENDPLATES		
REV. LTR: B	VERSION: 02	TDR: 000001063670
FILE: \AAA\00168\022	REVISED: 09:46:50 03/09/2018	BY: FGCHAH1
MTL: –		

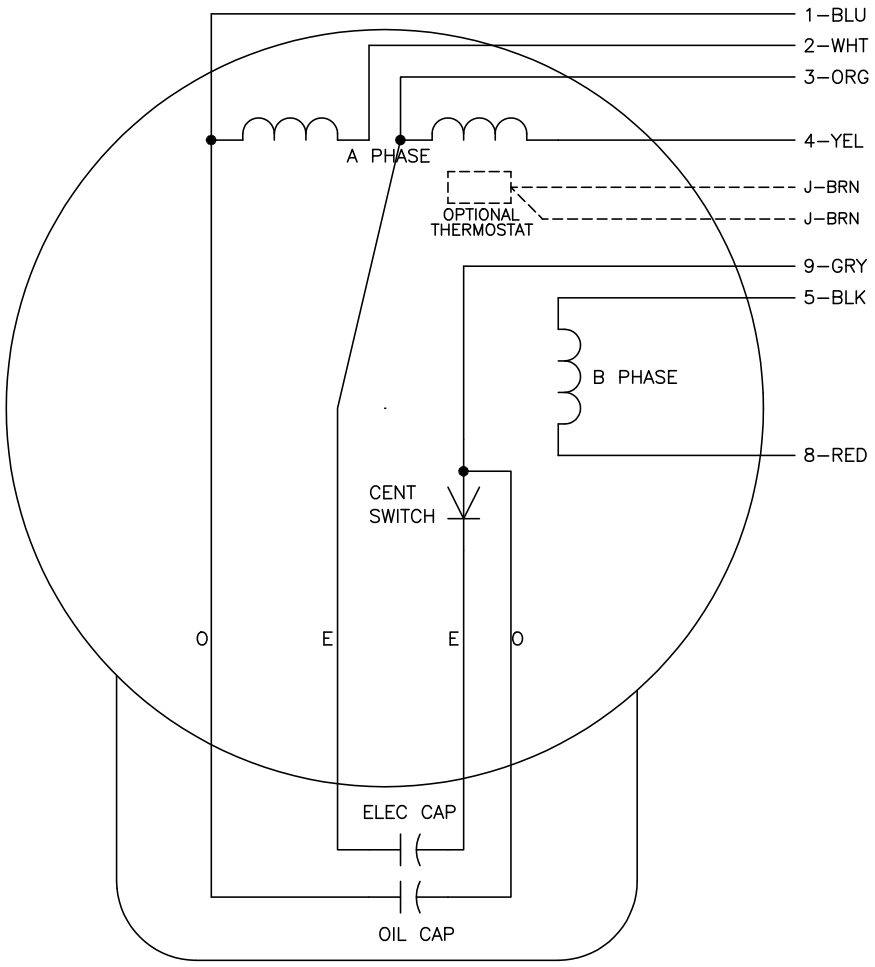
BALDOR

HORZ 143–5TYZ TEFC 35LC W/BELT TENSION MTG & 1.09 LEAD HOLE

SH 1 of 1

35LYY524

CD0016A01



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4,5	2,3	8,9
HIGH OPP	1	4,8	2,3	5,9
LOW STD	1,3	2,4,5	8,9	–
LOW OPP	1,3	2,4,8	5,9	–

NOTES:

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

CD0016A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 04/09/99 1:19	TDR: 0178636
CD0016A01		FILE: AAA00007410	MDL: –
		MTL: –	TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS