ABB BALDOR RELIANCE

Customer information packet

35A024Y474G1

1HP, 3450RPM, 3PH, 60HZ, 56, 3516M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	UR
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	2.800 A @ 230.0 V
	3.000 A @ 208.0 V
	1.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Standard
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	35A024
Base	
Status	PRD/A
Elec. spec.	35WGY474
Layout	35LYA024
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-24-2022

High Voltage Full Load Amps	1.4 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.37 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
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

NP1259L										
CAT.NO.										
SPEC.	35A024Y474G1									
HP	1									
VOLTS	230/460									
AMP	2.8/1.4									
RPM	3450									
FRAME	56		**HZ**	60			**PH**	3		
SER.F.	1.25	**CODE**	K	**DES**	B	**CL**	H			
NEMA-NOM-EFF	77	**PF**	87							
RATING	40C AMB-CONT									
CC	010A									
DE	6205		**ODE**	6203						
ENCL	TEFC	**SN**								
	SFA 3.4/1.7									

AC Induction Motor Performance Data
Record # 36063
Typical performance - not guaranteed values

Winding: 35WGY474-R015	**Type:** 3516M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1	**Full Load Torque**	1.5 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		2.8/1.4	**Breakdown Torque**	5.6 LB-FT
R.P.M.		3450	**Pull-up Torque**	3.91 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	4.01 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	8.99 A
Service Factor (S.F.)		1.25	**No-load Current**	0.66 A
NEMA Nom. Eff.	77 **Power Factor**	87	**Line-line Res. @ 25ºC**	19.4 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps		3.4/1.7	**Temp. Rise @ S.F. Load**	60°C
			Locked-rotor Power Factor	64
			Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	74	82	85	87	87	87
Efficiency	53.9	67.9	73.4	75.1	75.6	74.5	75.6
Speed	3549	3513	3473	3431	3383	3329	3383
Line amperes	0.769	0.939	1.17	1.43	1.72	2.06	1.72

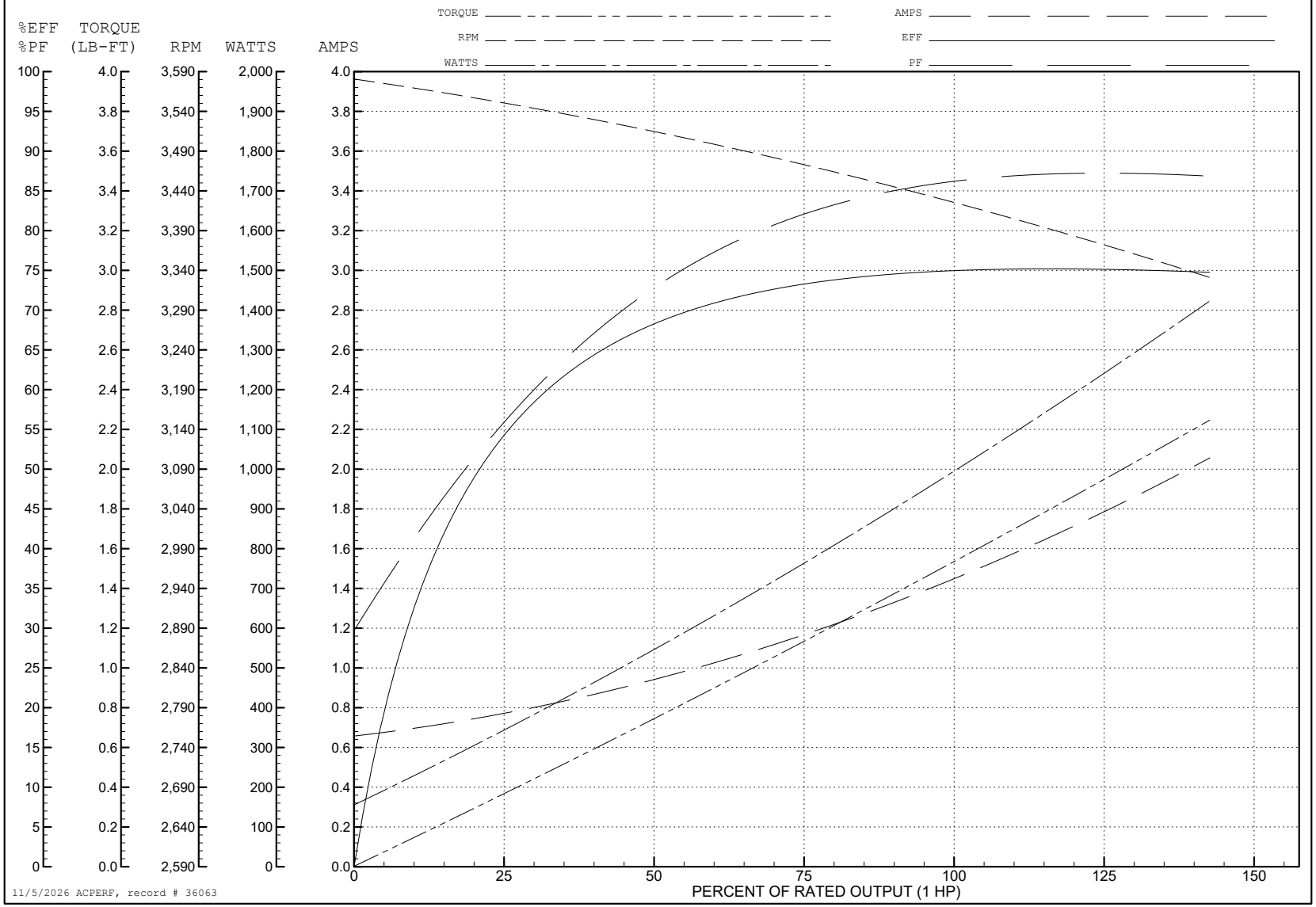
ABB Motors and Mechanical Inc.

WINDING # 35WGY474

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

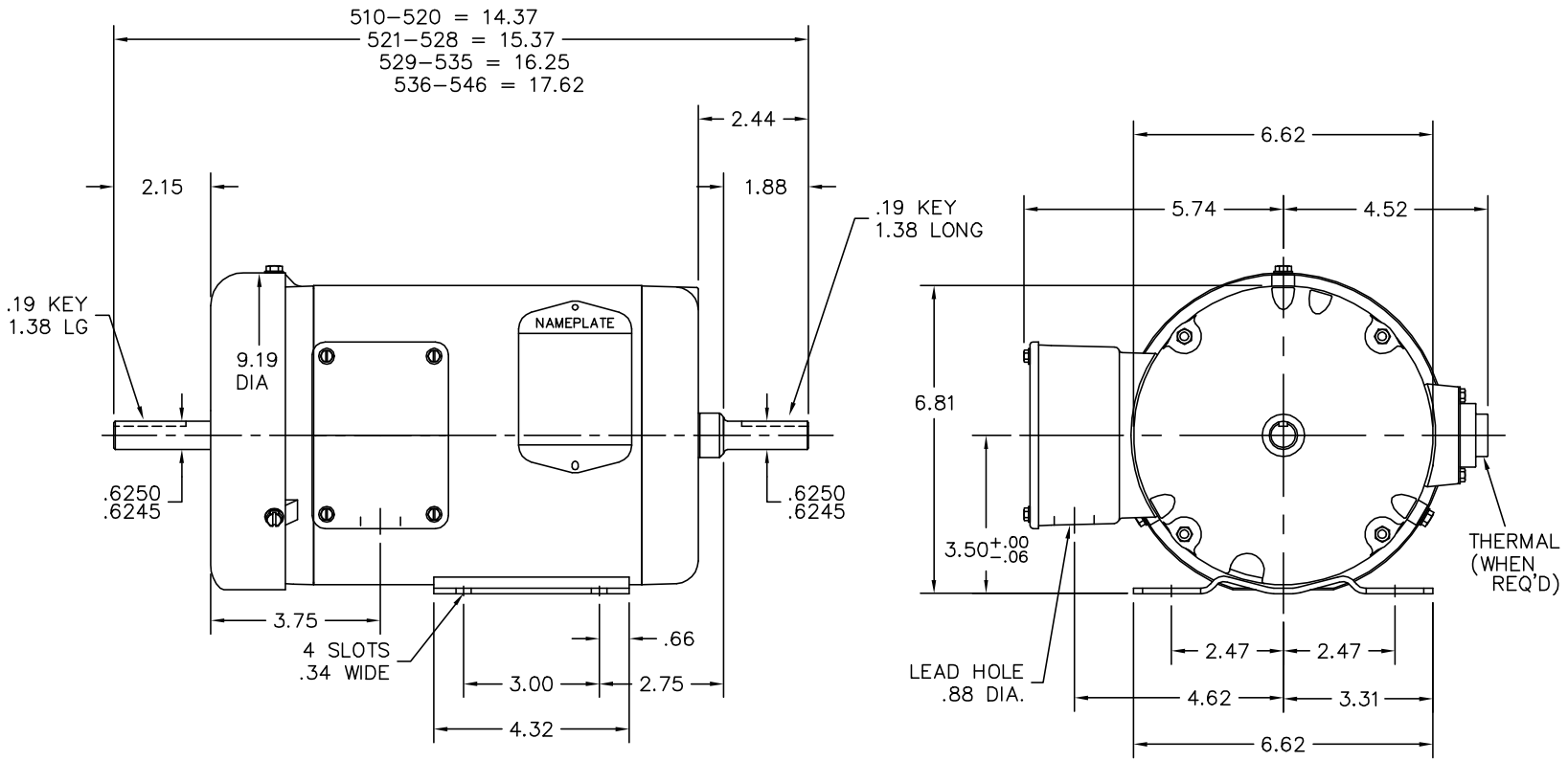
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.6 PU=3.91 LR=4.01 LRA=8.99



11/5/2026 ACPERF, record # 36063

35LYA024



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

REV. DESC: REPLACE 35SB0008 W/35SB2081 & 35BA4010 IN MECH DWG		
REV. LTR: K	VERSION: 05	TDR: 000000969734
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MTL: –		

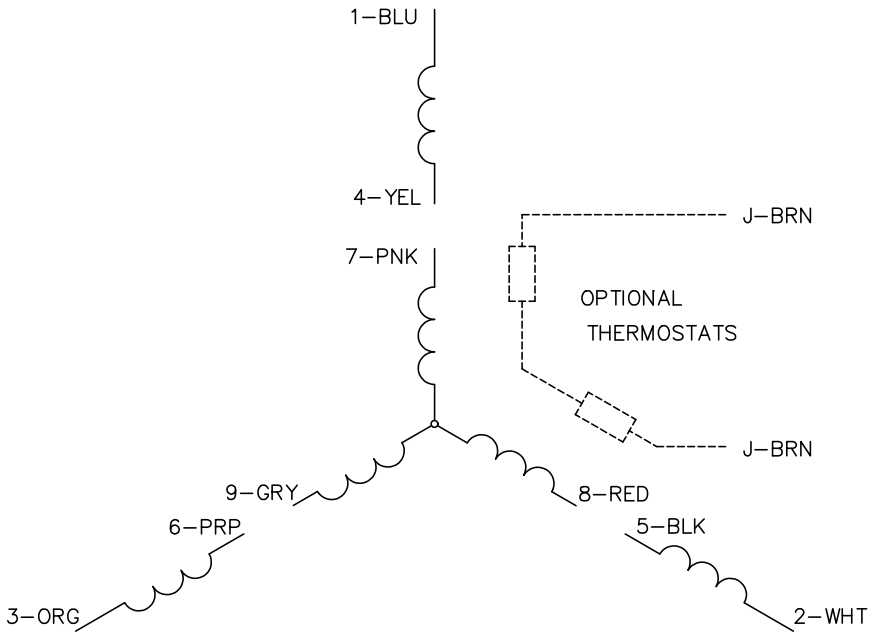
BALDOR

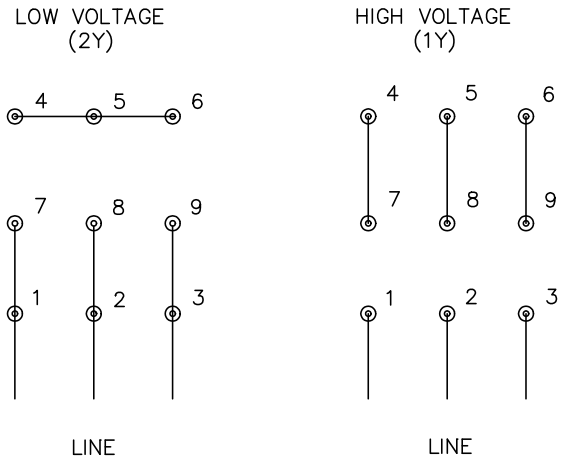
STD HORZ 56 TEFC 35M DOUBLE SHAFT

SH 1 of 1

35LYA024

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS