

**BALDOR • RELIANCE**

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# Customer information packet

## PL3519M

3HP, 3450RPM, 1PH, 60HZ, 56, 3532LC, TEFC, F1

Class - None

Division - Not Applicable

## 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	Cap Start, Cap Run
Output @ Frequency	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.500 A @ 230.0 V 13.700 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F

## Part detail

Revision	AF
Type	AC
Mech. spec.	35T949
Base	
Status	PRD/A
Elec. spec.	35WGY870
Layout	35LYT949
Eff. date	05-07-2024
CD Diagram	CD0002A02
Poles	02
Leads	2#14 A PH,3#18 B&J
Proprietary	False
Created date	06-22-2007

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	G
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	2 @ 14 AWG, A PH
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3532LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	14.12 IN
<b>Power Factor</b>	95
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Do Not Use
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Manual Thermal Overload
<b>Winding Thermal 1 Location</b>	KO
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	PL3519M								
<b>SPEC.</b>	35T949Y870G1								
<b>HP</b>	3								
<b>VOLTS</b>	230								
<b>AMP</b>	12.5								
<b>RPM</b>	3450								
<b>FRAME</b>	56			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.15	<b>CODE</b>	G	<b>DES</b>	L	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	85.5	<b>PF</b>	95						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

**AC Induction Motor Performance Data**

Record # 10351

Typical performance - not guaranteed values

<b>Winding:</b> 35WGY870-R001		<b>Type:</b> 3532LC		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	3	<b>Full Load Torque</b>	4.6 LB-FT		
<b>Volts</b>	230	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	12.5	<b>Breakdown Torque</b>	11.5 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	9.3 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	1	<b>Locked-rotor Torque</b>	10.5 LB-FT	
<b>NEMA Design Code</b>	L <b>KVA Code</b>	G	<b>Starting Current</b>	77 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	2.6 A		
<b>NEMA Nom. Eff.</b>	85.5 <b>Power Factor</b>	95	<b>Line-line Res. @ 25°C</b>	3.06 Ω A Ph 1.45 Ω B Ph	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	47°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	56°C		

**Load Characteristics 230 V, 60 Hz, 3 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	76	87	92	92	93	92	93
<b>Efficiency</b>	72	80	85	85.5	82	78.5	85
<b>Speed</b>	3565	3540	3510	3475	3430	3370	3455
<b>Line amperes</b>	4.6	7.2	9.6	12.5	16	19.9	14.4

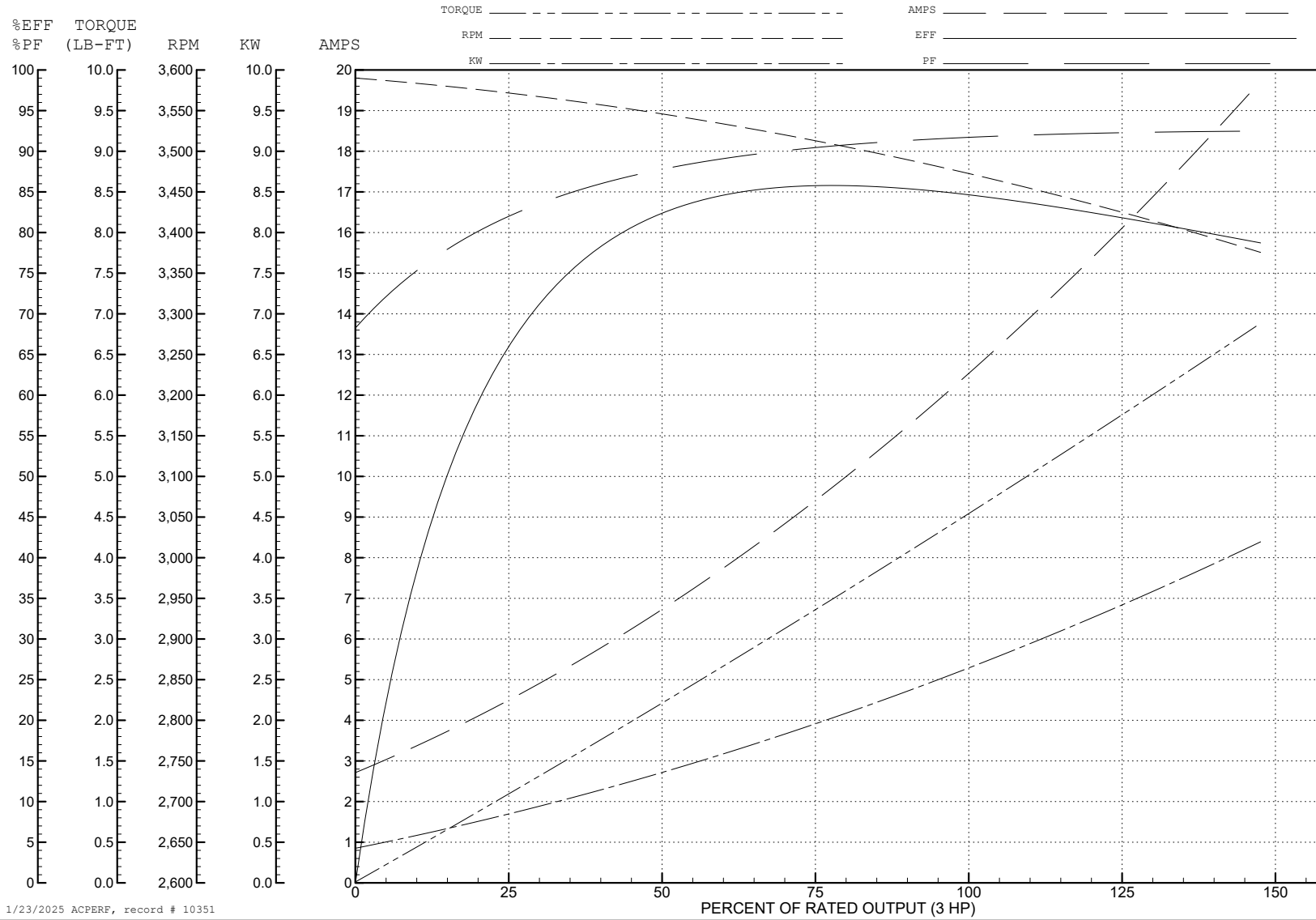
ABB Motors and Mechanical Inc.

WINDING # 35WGY870

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC

TORQUES (LB-FT): PO=11.5 PU=9.3 LR=10.5 LRA=77



1/23/2025 ACPERF, record # 10351

**AC Induction Motor Performance Data**

Record # 38571

Typical performance - not guaranteed values

Winding: 35WGY870-R001		Type: 3532LC	Enclosure: TEFC		
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)	3	Full Load Torque	4.65 LB-FT		
Volts	230	Start Configuration	direct on line		
Full Load Amps	12.5	Breakdown Torque	10.4 LB-FT		
R.P.M.	3450	Pull-up Torque	8.29 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque	10.7 LB-FT	
NEMA Design Code	L	KVA Code	G	Starting Current	79.3 A
Service Factor (S.F.)	1.15	No-load Current	1.97 A		
NEMA Nom. Eff.	85.5	Power Factor	95	Line-line Res. @ 25°C	0.80257 Ω A Ph 1.4763 Ω B Ph
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load	104°C	
S.F. Amps				Temp. Rise @ S.F. Load	136°C

**Load Characteristics 230 V, 60 Hz, 3 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	95	98	100	100	99	98	99
Efficiency	66.4	76.2	79.4	78.2	74.4	67.8	75.9
Speed	3553.8	3518.2	3479.4	3428.6	3362.2	3254.4	3389
Line amperes	4.09	6.62	9.37	12.7	16.6	22.2	15



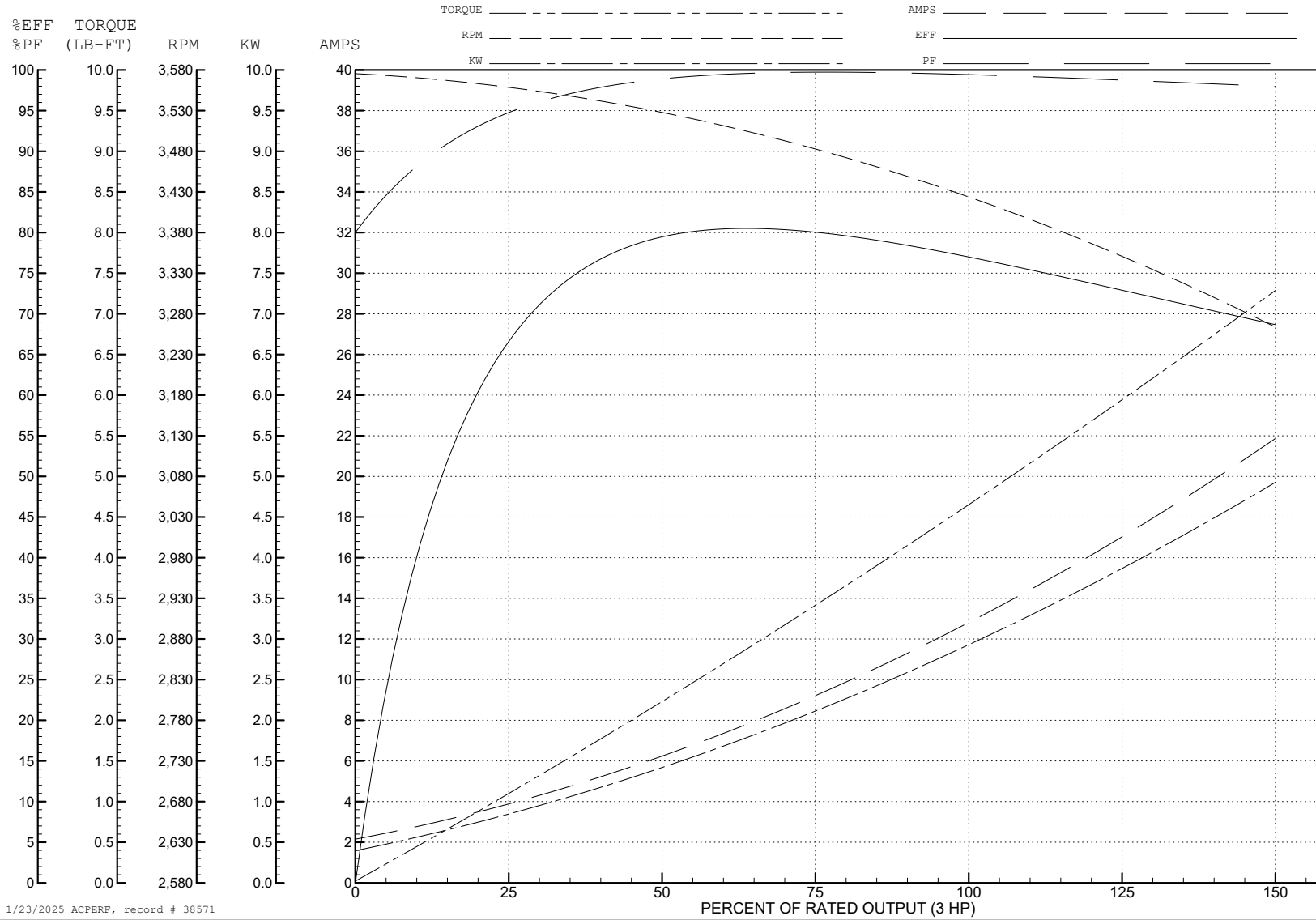
ABB Motors and Mechanical Inc.

WINDING # 35WGY870

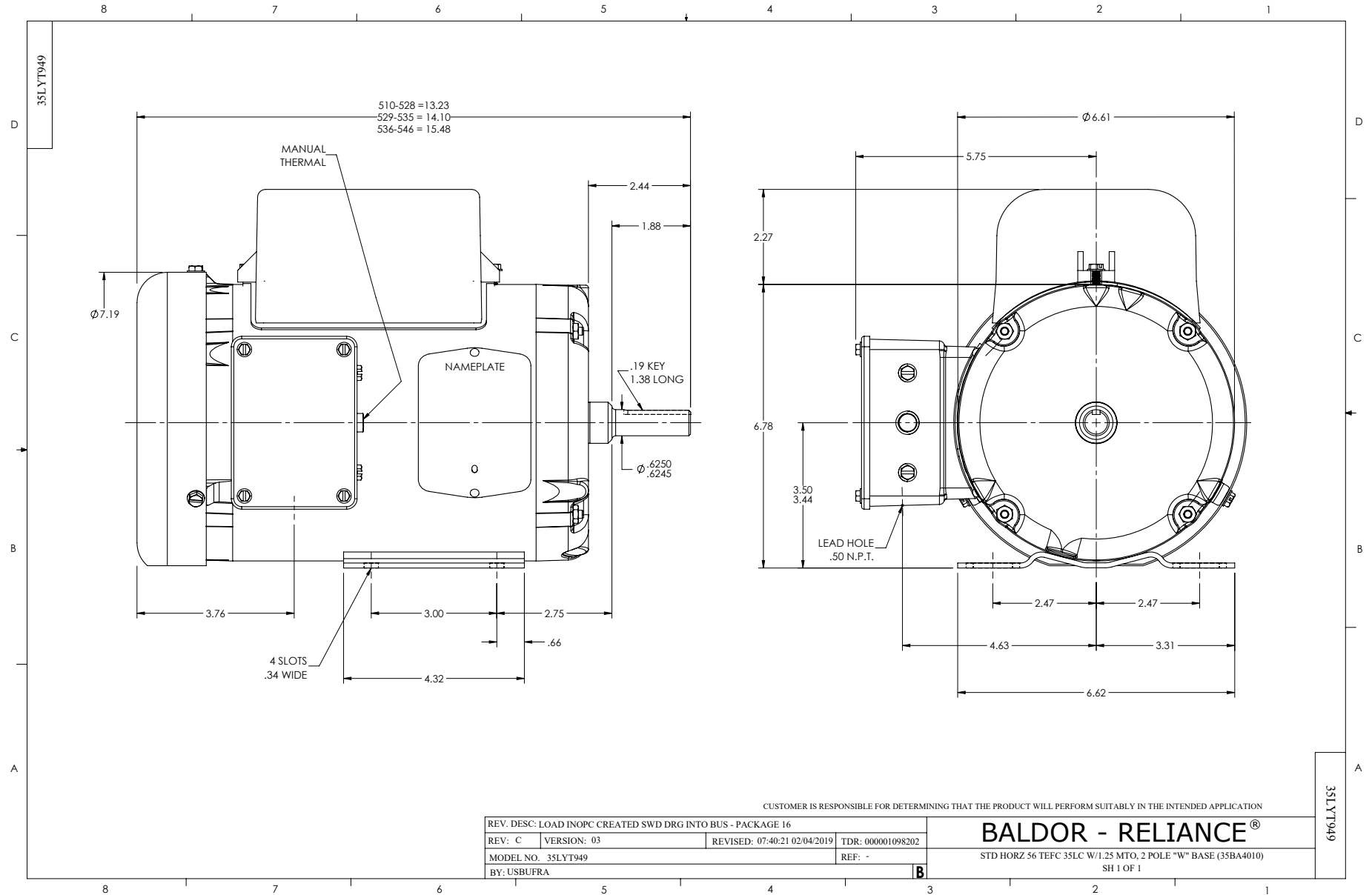
Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC

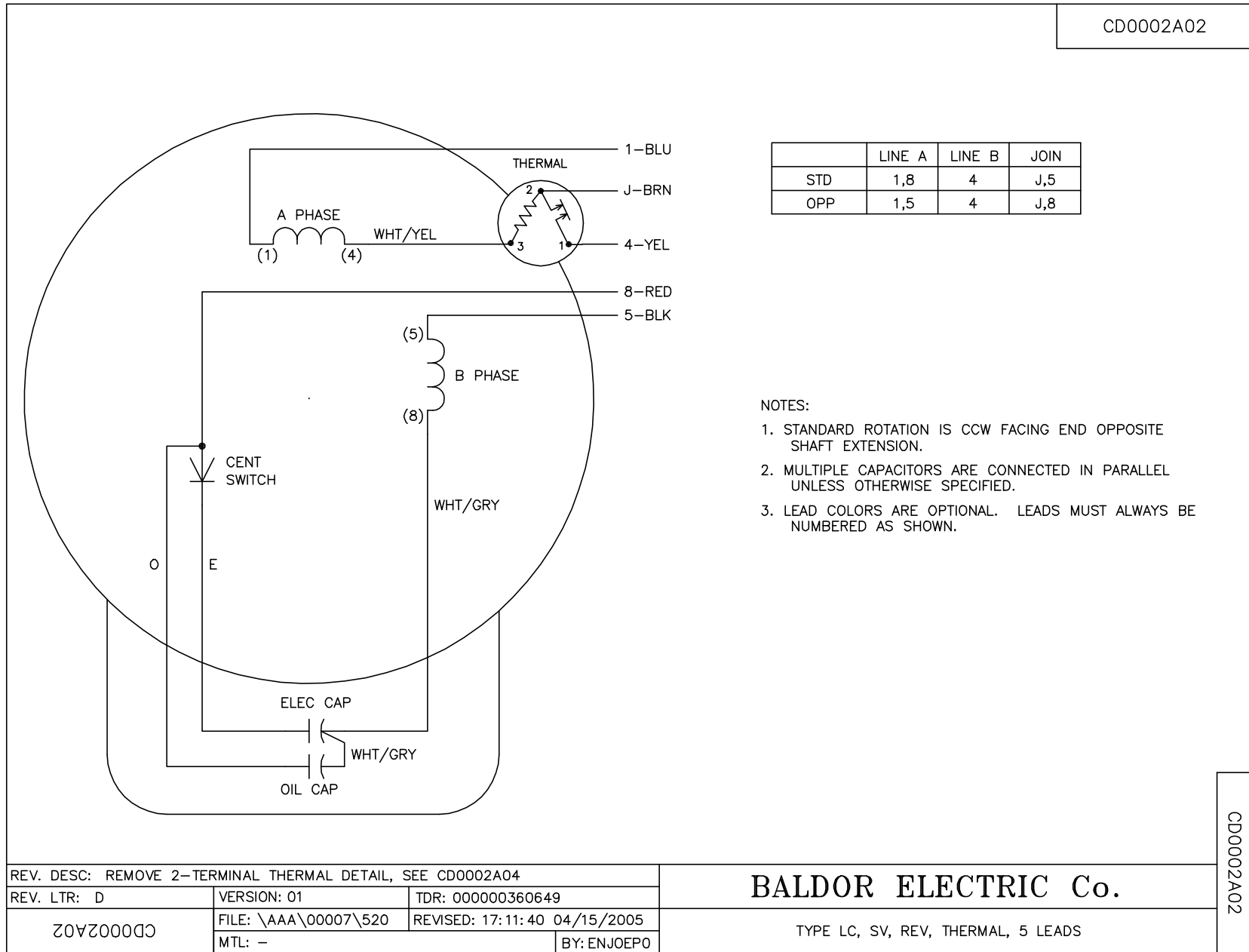
TORQUES (LB-FT): PO=10.4 PU=8.29 LR=10.7 LRA=79.3



1/23/2025 ACPERF, record # 38571



CD0002A02



REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04		
REV. LTR: D	VERSION: 01	TDR: 000000360649
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005
	MTL: -	BY: ENJOEPO

**BALDOR ELECTRIC Co.**

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02