

**BALDOR • RELIANCE**

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# Customer information packet

## L3510TM

1HP, 1740RPM, 1PH, 60HZ, 143T, 3528L, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	13.000 A @ 115.0 V 6.500 A @ 230.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

## Part detail

Revision	A
Type	AC
Mech. spec.	35KK190
Base	
Status	PRD/A
Elec. spec.	35WGG468
Layout	35LYKK190
Eff. date	05-30-2025
CD Diagram	CD0269
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	11-14-2024

<b>KVA Code</b>	M
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	4 @ 16 AWG, A&J
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3528L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	13.29 IN
<b>Power Factor</b>	71
<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>	0.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1740 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>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Manual Thermal Overload
<b>Winding Thermal 1 Location</b>	SB
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	L3510TM								
<b>SPEC.</b>	35KK190G468								
<b>HP</b>	1								
<b>VOLTS</b>	115/230								
<b>AMP</b>	13/6.5								
<b>RPM</b>	1740								
<b>FRAME</b>	143T			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.15	<b>CODE</b>	M	<b>DES</b>	L	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	70	<b>PF</b>	71						
<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 # 107878

Typical performance - not guaranteed values

Winding: 35WGG468-R001		Type: 3528L		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	1	Full Load Torque	3.013 LB-FT		
Volts	115/230	Start Configuration	direct on line		
Full Load Amps	12.5/6.3	Breakdown Torque	10.5 LB-FT		
R.P.M.	1750	Pull-up Torque	8.29 LB-FT		
Hz	60 Phase	Locked-rotor Torque	11.7 LB-FT		
NEMA Design Code	L KVA Code	Starting Current	45.1 A		
Service Factor (S.F.)	1.15	No-load Current	4.78 A		
NEMA Nom. Eff.	74 Power Factor	Line-line Res. @ 25°C	2.1417 Ω A Ph 1.1287 Ω B Ph		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	81°C		
S.F. Amps		Temp. Rise @ S.F. Load	95°C		

**Load Characteristics 230 V, 60 Hz, 1 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	49	61	71	77	82	75
Efficiency	48.6	63.1	68.9	70.7	70.1	68.1	70.3
Speed	1783	1770.6	1756.7	1740.8	1721.6	1698.7	1729
Line amperes	4.88	5.21	5.76	6.5	7.48	8.73	7.09

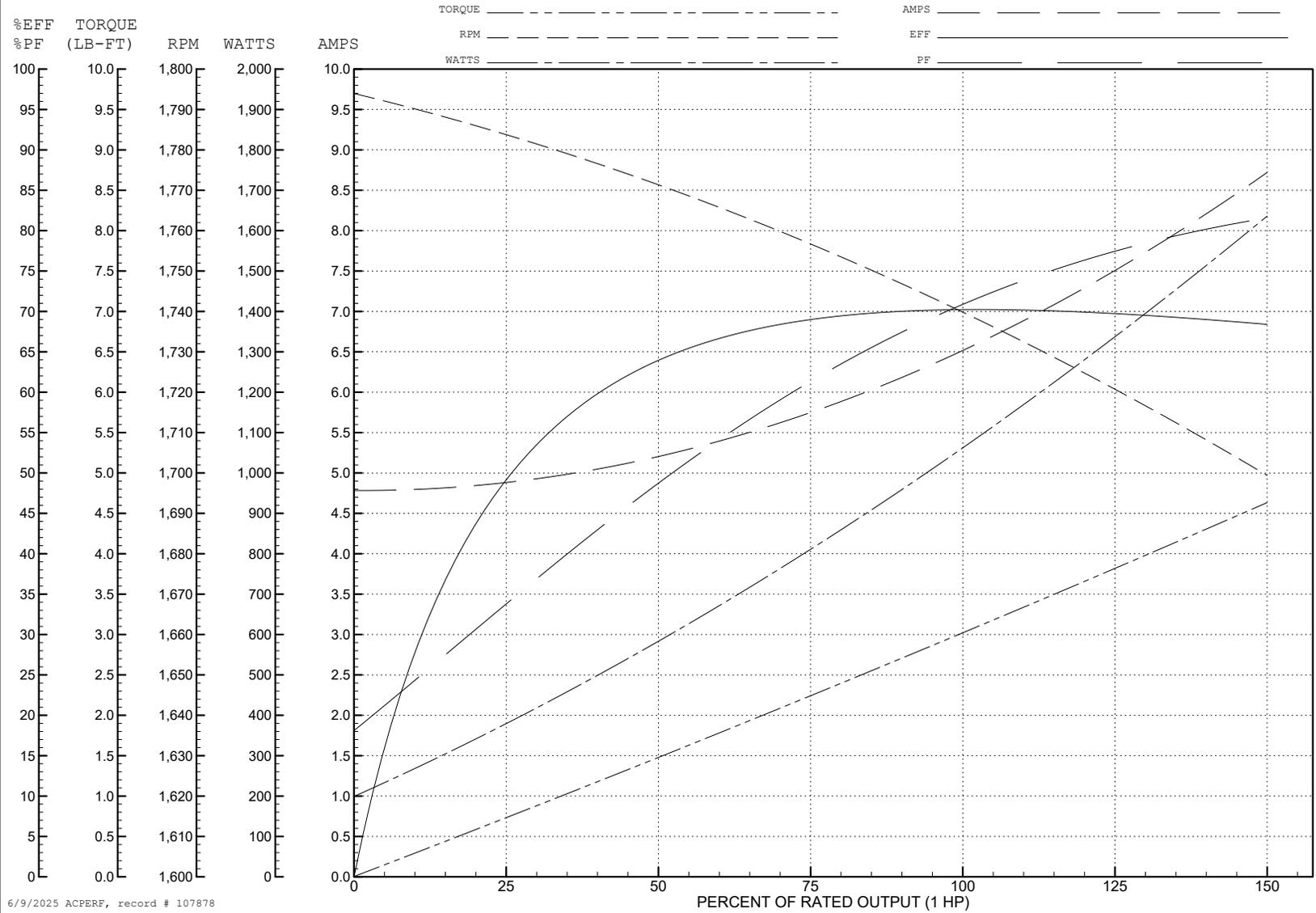
ABB Motors and Mechanical Inc.

WINDING # 35WGG468

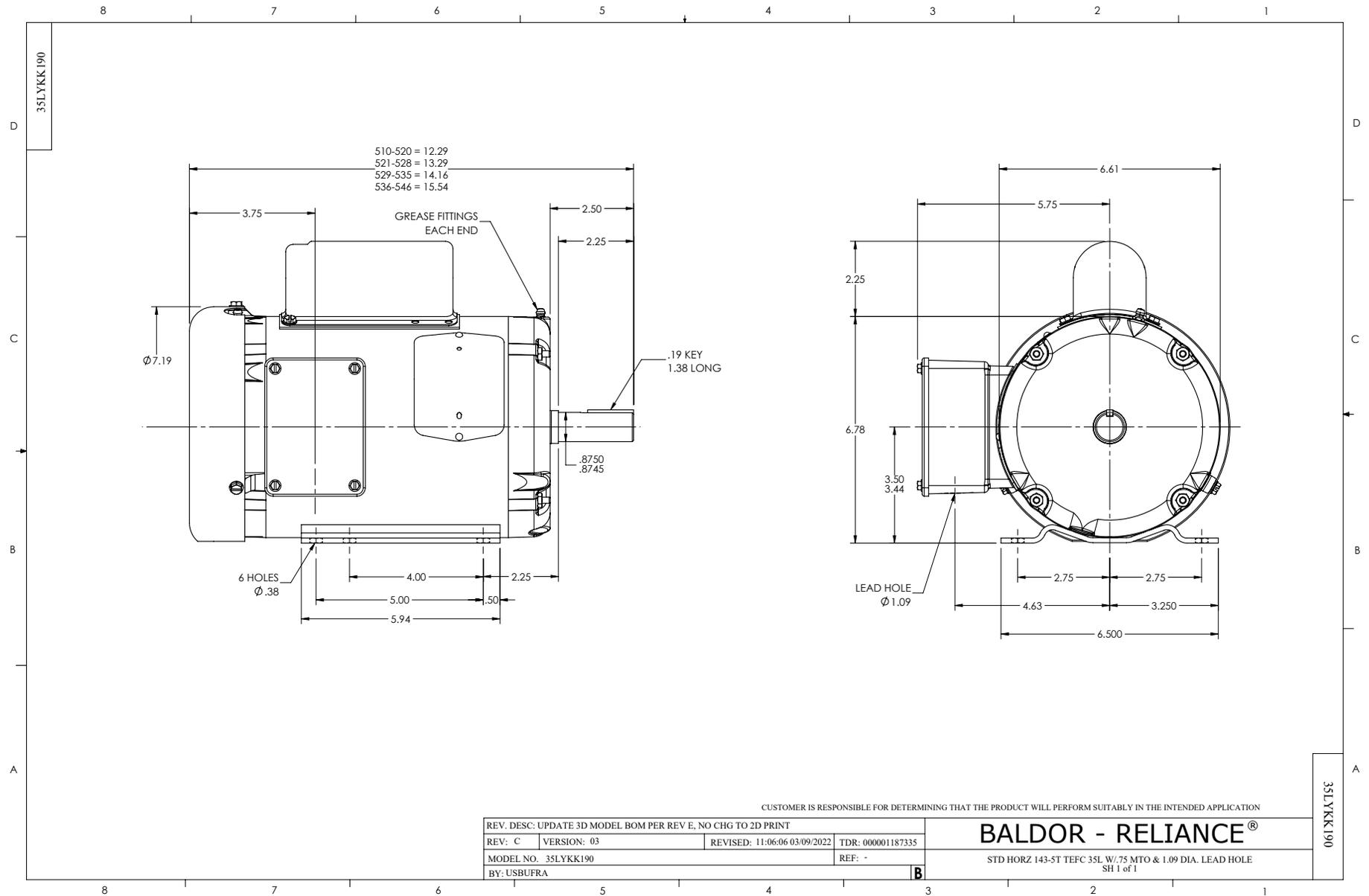
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 230 V 3528L

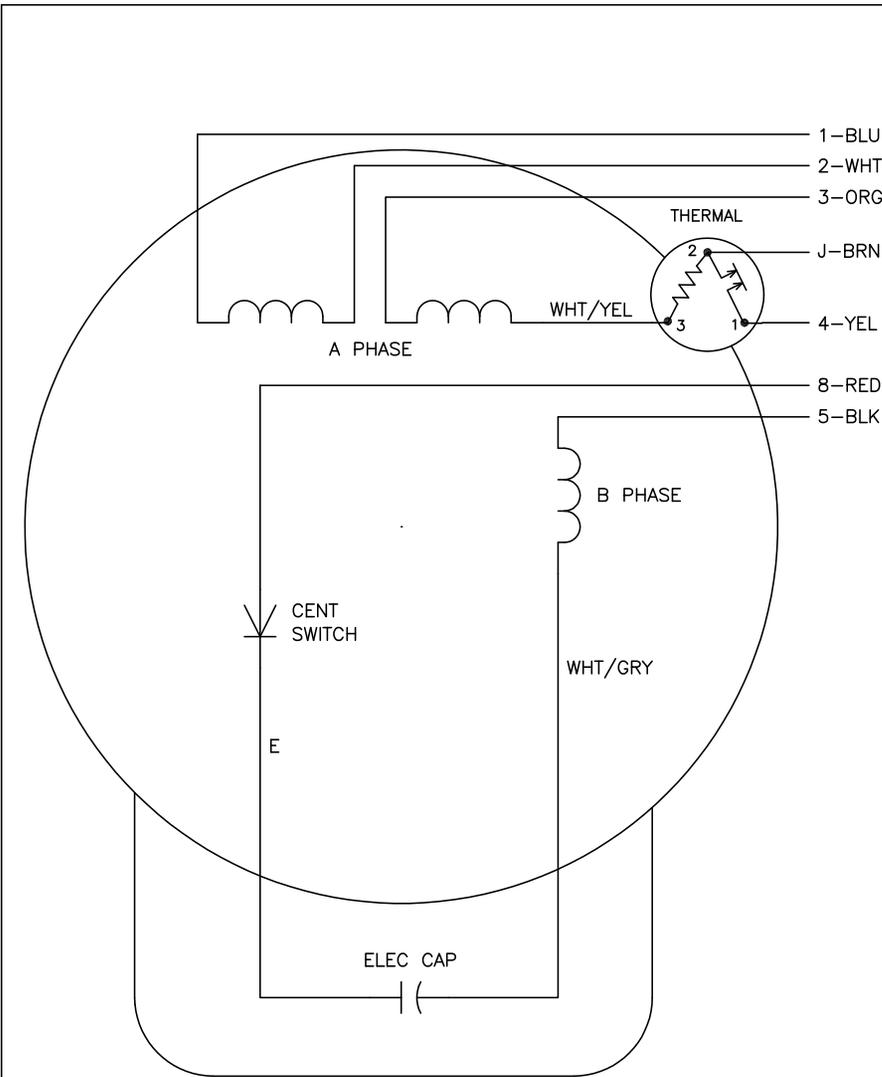
TORQUES (LB-FT): PO=10.5 PU=8.29 LR=11.7 LRA=45.1



6/9/2025 ACPERF, record # 107878



CD0269



	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.

CD0269

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 04/08/99 1:07	TDR: 0178636
69Z000		FILE: AAA00007421	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD