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# Customer information packet

## SPM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3528M, OPSB, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE NEMA PREMIUM 4
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	2.250 A @ 460.0 V 4.500 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F

## Part detail

Revision	D
Type	AC
Mech. spec.	35E6247
Base	
Status	PRD/A
Elec. spec.	35WGZ964
Layout	35LYE6247
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-08-2023

<b>Inverter Code</b>	<b>Inverter Duty</b>
<b>KVA Code</b>	<b>M</b>
<b>Lifting Lugs</b>	<b>No Lifting Lugs</b>
<b>Locked Bearing Indicator</b>	<b>No Locked Bearing</b>
<b>Max Speed</b>	<b>2700 rpm</b>
<b>Motor Lead Quantity/Wire Size</b>	<b>9 @ 18 AWG</b>
<b>Motor Lead Termination</b>	<b>Flying Leads</b>
<b>Motor Standards</b>	<b>NEMA</b>
<b>Motor Type</b>	<b>3528M</b>
<b>Mounting Arrangement</b>	<b>F1</b>
<b>Number of Poles</b>	<b>4</b>
<b>Overall Length</b>	<b>12.13 IN</b>
<b>Power Factor</b>	<b>72</b>
<b>Product Family</b>	<b>General Purpose</b>
<b>Pulley End Bearing Type</b>	<b>Ball</b>
<b>Pulley Face Code</b>	<b>Standard</b>
<b>Pulley Shaft Indicator</b>	<b>Standard</b>
<b>Rodent Screen</b>	<b>None</b>
<b>RoHS Status</b>	<b>ROHS COMPLIANT</b>
<b>Service Factor</b>	<b>1.15</b>
<b>Shaft Diameter</b>	<b>0.875 IN</b>
<b>Shaft Ground Indicator</b>	<b>No Shaft Grounding</b>
<b>Shaft Rotation</b>	<b>Reversible</b>
<b>Shaft Slinger Indicator</b>	<b>No Slinger</b>
<b>Speed</b>	<b>1770 rpm</b>
<b>Speed Code</b>	<b>Single Speed</b>
<b>Starting Method</b>	<b>Direct on line</b>
<b>Thermal Device - Bearing</b>	<b>None</b>
<b>Thermal Device - Winding</b>	<b>None</b>
<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>



**AC Induction Motor Performance Data**

Record # 96330

Preliminary Data Sheet

<b>Winding:</b> 35WGZ964-R001		<b>Type:</b> 3528M		<b>Enclosure:</b> ODP	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1.5	<b>Full Load Torque</b>	4.47 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	4.5/2.25	<b>Breakdown Torque</b>	20.2 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	10.1 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	13.3 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	20.7 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.45 A		
<b>NEMA Nom. Eff.</b>	87.5	<b>Line-line Res. @ 25°C</b>	10.2 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	44°C		
<b>S.F. Amps</b>	4.9/2.45	<b>Temp. Rise @ S.F. Load</b>	50°C		
		<b>Locked-rotor Power Factor</b>	55.3		
		<b>Rotor inertia</b>	0.202 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 1.5 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>	31	50	63	72	78	82	76
<b>Efficiency</b>	76.4	84.6	87	87.5	86.9	86	87.1
<b>Speed</b>	1793	1786	1778	1771	1763	1754	1766
<b>Line amperes</b>	1.51	1.67	1.92	2.23	2.6	3	2.45

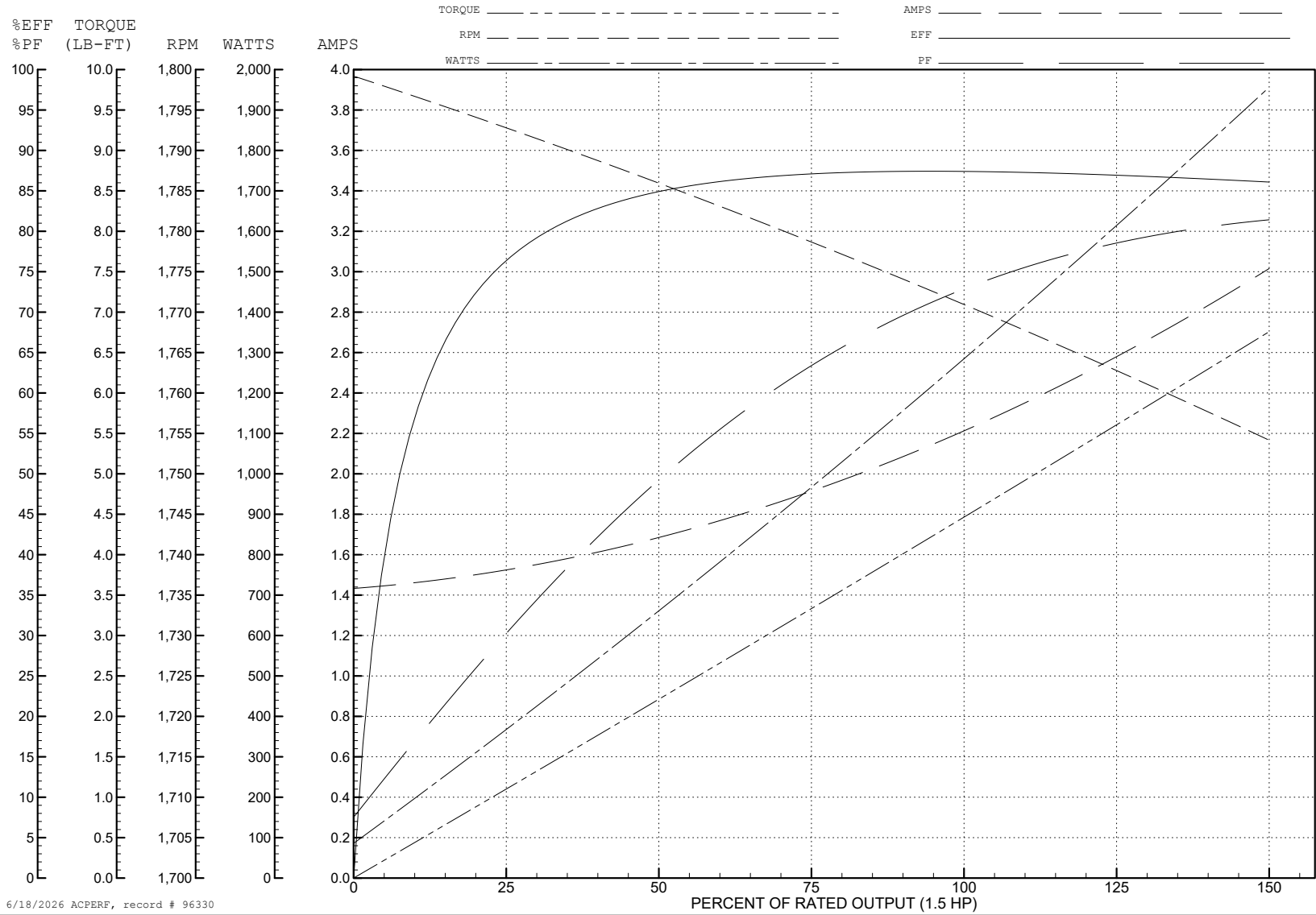
ABB Motors and Mechanical Inc.

WINDING # 35WGZ964

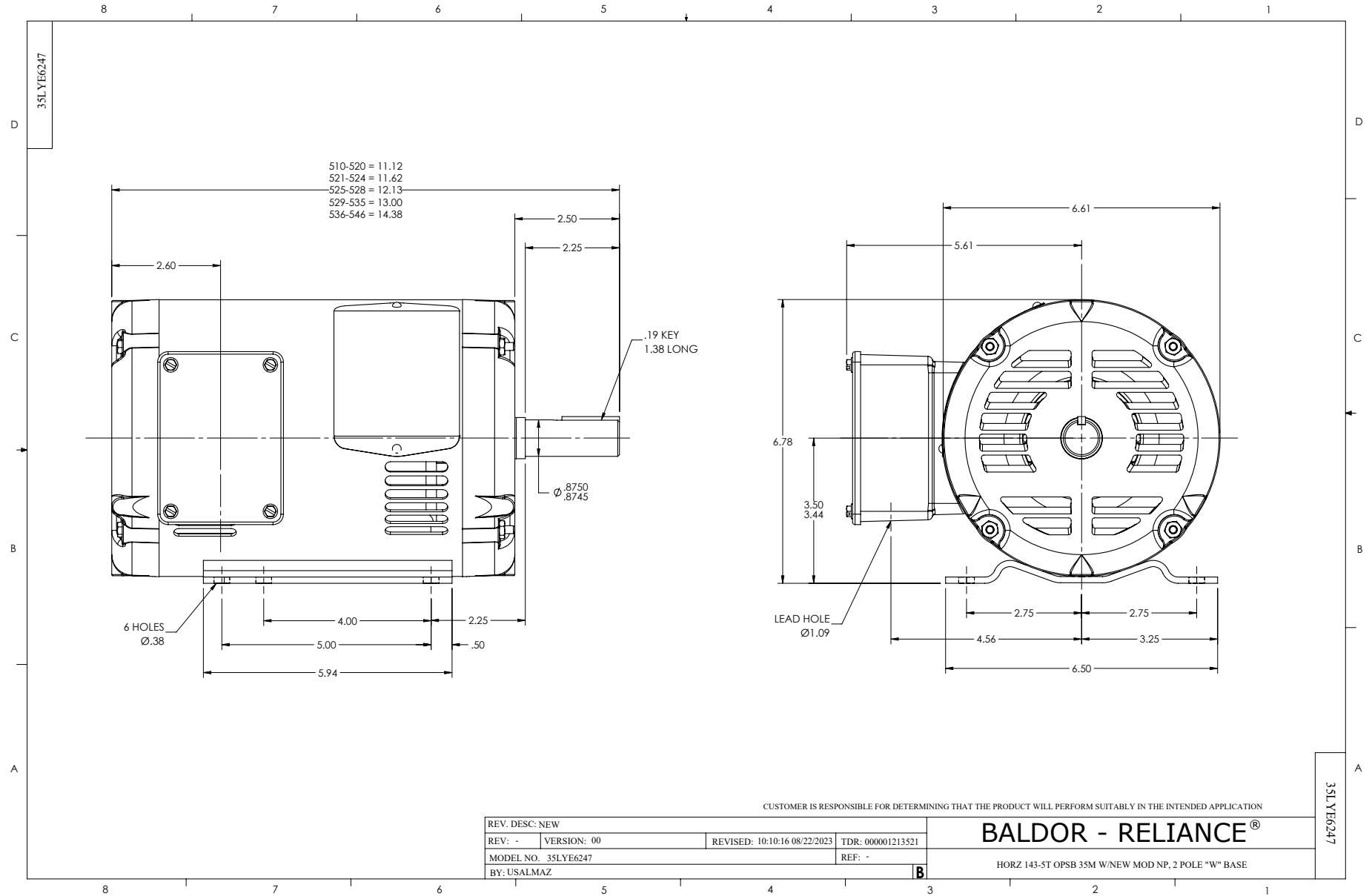
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3528M

Typical performance - not guaranteed values.

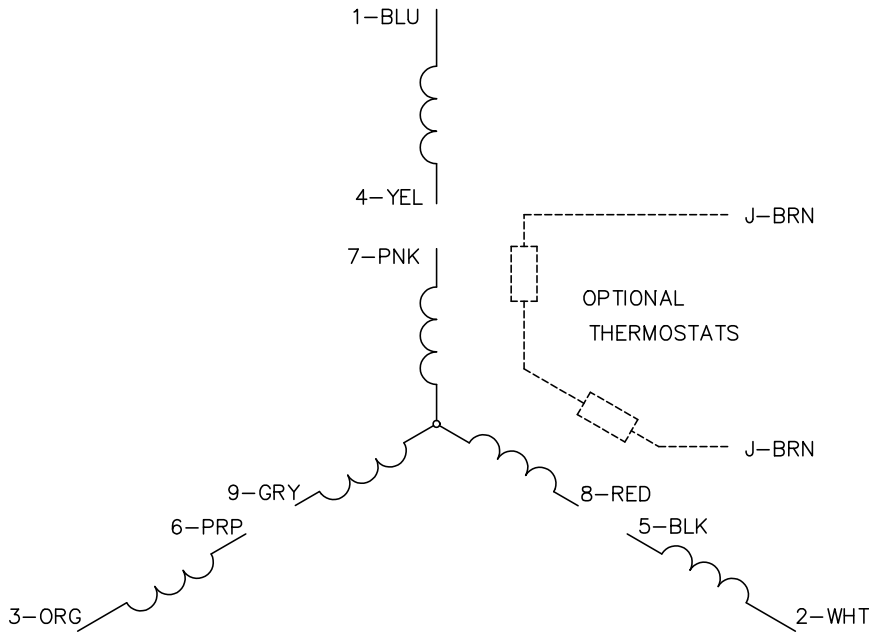
TORQUES (LB-FT): PO=20.2 PU=10.1 LR=13.3 LRA=20.7



6/18/2026 ACPERF, record # 96330



CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS