

ABB BALDOR RELIANCE III

Customer information packet

SPM3554T

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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.	35E6248
Base	
Status	PRD/A
Elec. spec.	35WGZ964
Layout	35LYE6248
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-08-2023

Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP4423A01A01L														
CAT #	SPM3554T					WGT	45	LBS						
SPEC	35E6248Z964					ENCL	TEFC							
SER #						CC	010A	IP	54					
HP	1.5	MAG CUR				1.45								
VOLTS	230/460					NEMA NOM. EFF				87.5				
AMPS	4.5/2.25						PF	72						
RATING	40C AMB-CONT													
RPM	1770					MAX RPM		2700						
FRAME	145T	HZ	60	CODE		M	CLASS		F					
SER.F.	1.15	SF AMP	4.9/2.45				PH	3	DES	B				
DE	6205		ODE		6203									
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO		90	1.5:1			
ID LOGO	WK2	0.202	CT	6	TO	60	10:1							
ID LOGO	SL HZ	1	VT	3	TO	60	20:1							
							QR							
YR														

AC Induction Motor Performance Data

Record # 96356

Preliminary Data Sheet

Winding: 35WGZ964-R003			Type: 3528M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.47 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		4.5/2.25	Breakdown Torque		20.2 LB-FT	
R.P.M.		1770	Pull-up Torque		10.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		13.3 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		20.7 A
Service Factor (S.F.)		1.15	No-load Current		1.45 A	
NEMA Nom. Eff.		87.5	Power Factor	Line-line Res. @ 25°C		10.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps		4.9/2.45		Temp. Rise @ S.F. Load		51°C
				Locked-rotor Power Factor		55.3
				Rotor inertia		0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	50	63	72	78	82	76
Efficiency	76.7	84.5	87.1	87.6	86.8	86	87.1
Speed	1793	1786	1778	1771	1763	1754	1766
Line amperes	1.51	1.67	1.92	2.23	2.6	3	2.45

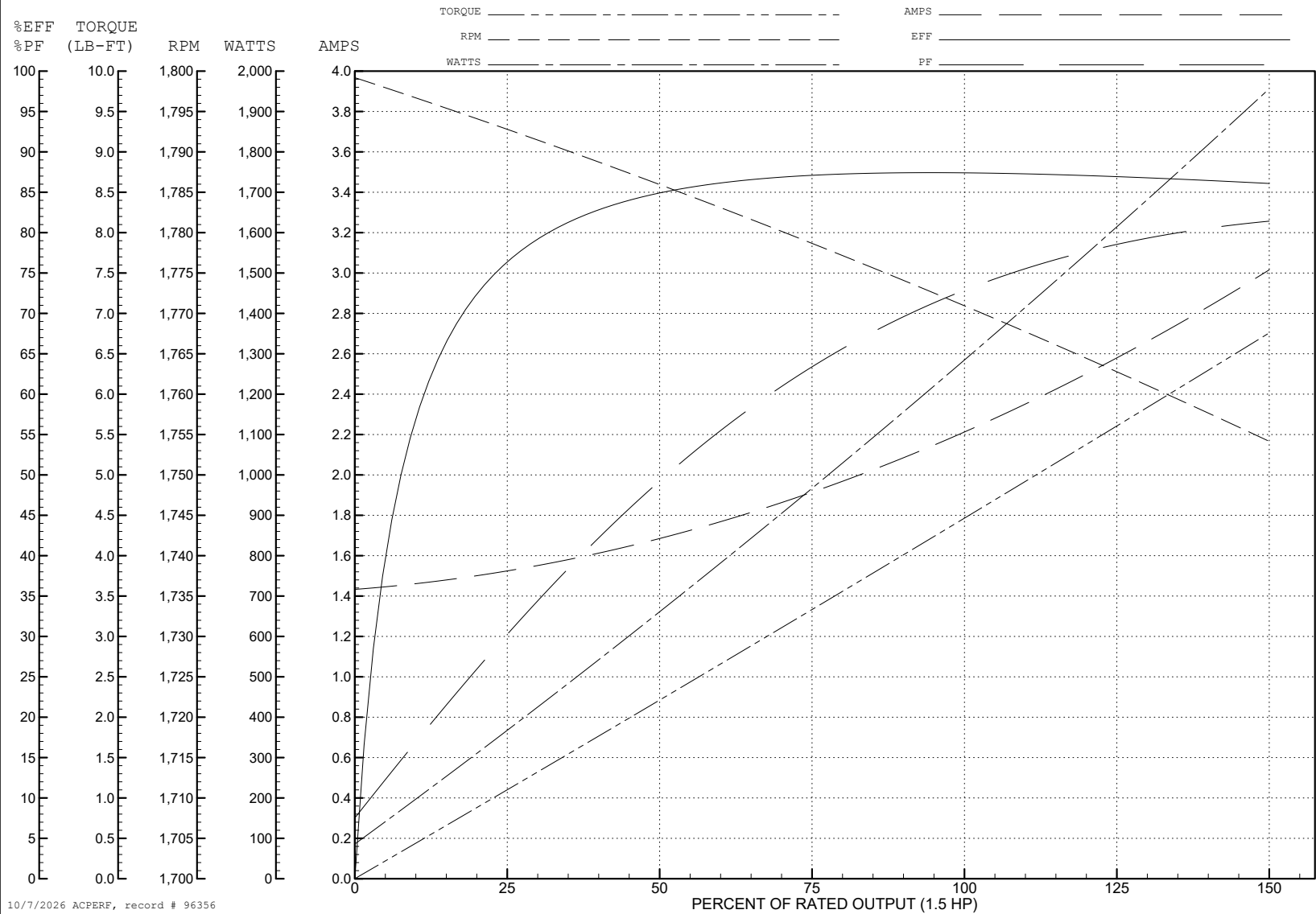
ABB Motors and Mechanical Inc.

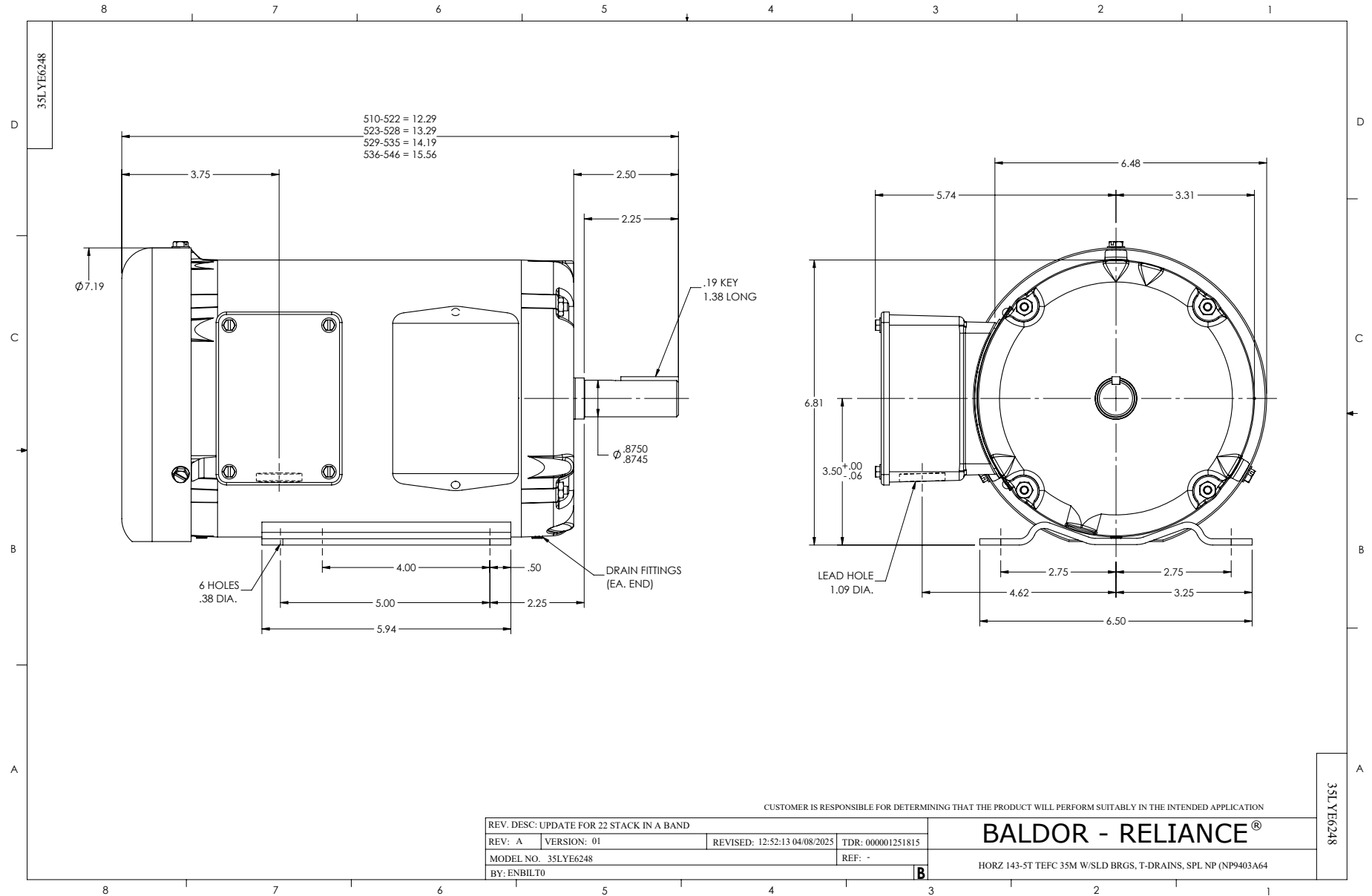
WINDING # 35WGZ964

Typical performance - not guaranteed values.

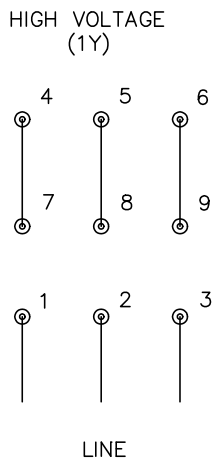
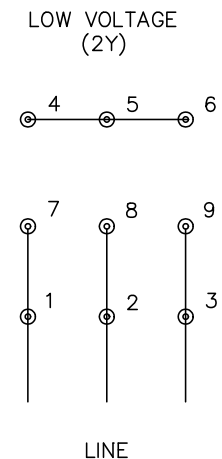
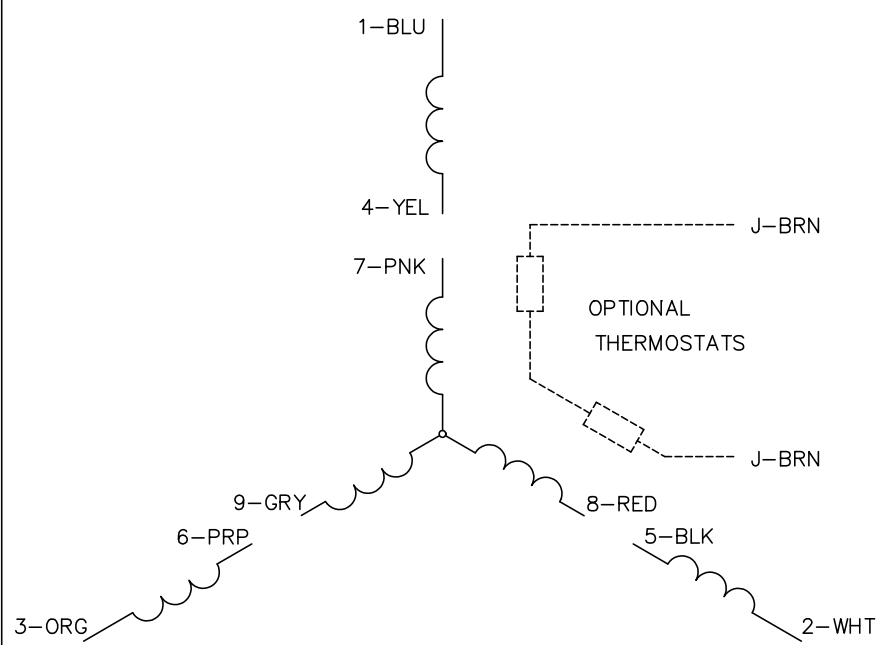
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3528M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005