



Customer information packet

SPM3607T

1.5HP, 1175RPM, 3PH, 60HZ, 182T, 3640M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM WEEE
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	2.500 A @ 460.0 V 5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a

Part detail

Revision	C
Type	AC
Mech. spec.	36P394
Base	
Status	PRD/A
Elec. spec.	36WGR643
Layout	36LYP394
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-07-2023

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.04 IN
Power Factor	63
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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 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 #	SPM3607T	WGT	90	LBS	
SPEC	36P394R643	ENCL	TEFC		
SER #		CC	010A	IP	54
HP	1.5	MAG CUR	3.4/1.7		
VOLTS	230/460	NEMA NOM. EFF		88.5	
AMPS	5/2.5	PF	63		
RATING	40C AMB-CONT				
RPM	1175	MAX RPM	1800		
FRAME	182T	HZ	60	CODE	M
		CLASS	F		
SER.F.	1.15	SF AMP	5.5/2.75	PH	3
		DES	B		
DE	6206	ODE	6205		
LUBRICATION	POLYREX EM				
ID LOGO	INVERTER TYPE	VPWM	CHP	60	TO
				90	1.5:1
ID LOGO	WK2	0.376	CT	6	TO
				60	10:1
ID LOGO	SL HZ	1.25	VT	3	TO
				60	20:1
YR				QR	

AC Induction Motor Performance Data

Record # 100911

Typical performance - not guaranteed values

Winding: 36WGR643-R003		Type: 3640M	Enclosure: TEFC	
Nameplate Data		460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1.5	Full Load Torque	6.69 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	5/2.5	Breakdown Torque	28.1 LB-FT	
R.P.M.	1175	Pull-up Torque	15 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	19.6 LB-FT
NEMA Design Code	B KVA Code	M	Starting Current	19.2 A
Service Factor (S.F.)		1.15	No-load Current	1.69 A
NEMA Nom. Eff.	88.5 Power Factor	63	Line-line Res. @ 25°C	5.99 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	40°C
S.F. Amps		5.5/2.75	Temp. Rise @ S.F. Load	46°C
			Locked-rotor Power Factor	29.1
			Rotor inertia	0.376 lb-ft ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	43	55	63	68	72	66
Efficiency	76.1	85.2	87.7	88.5	88.4	88	88.4
Speed	1196	1191	1184	1178	1170	1163	1173
Line amperes	1.75	1.94	2.2	2.52	2.9	3.34	2.75

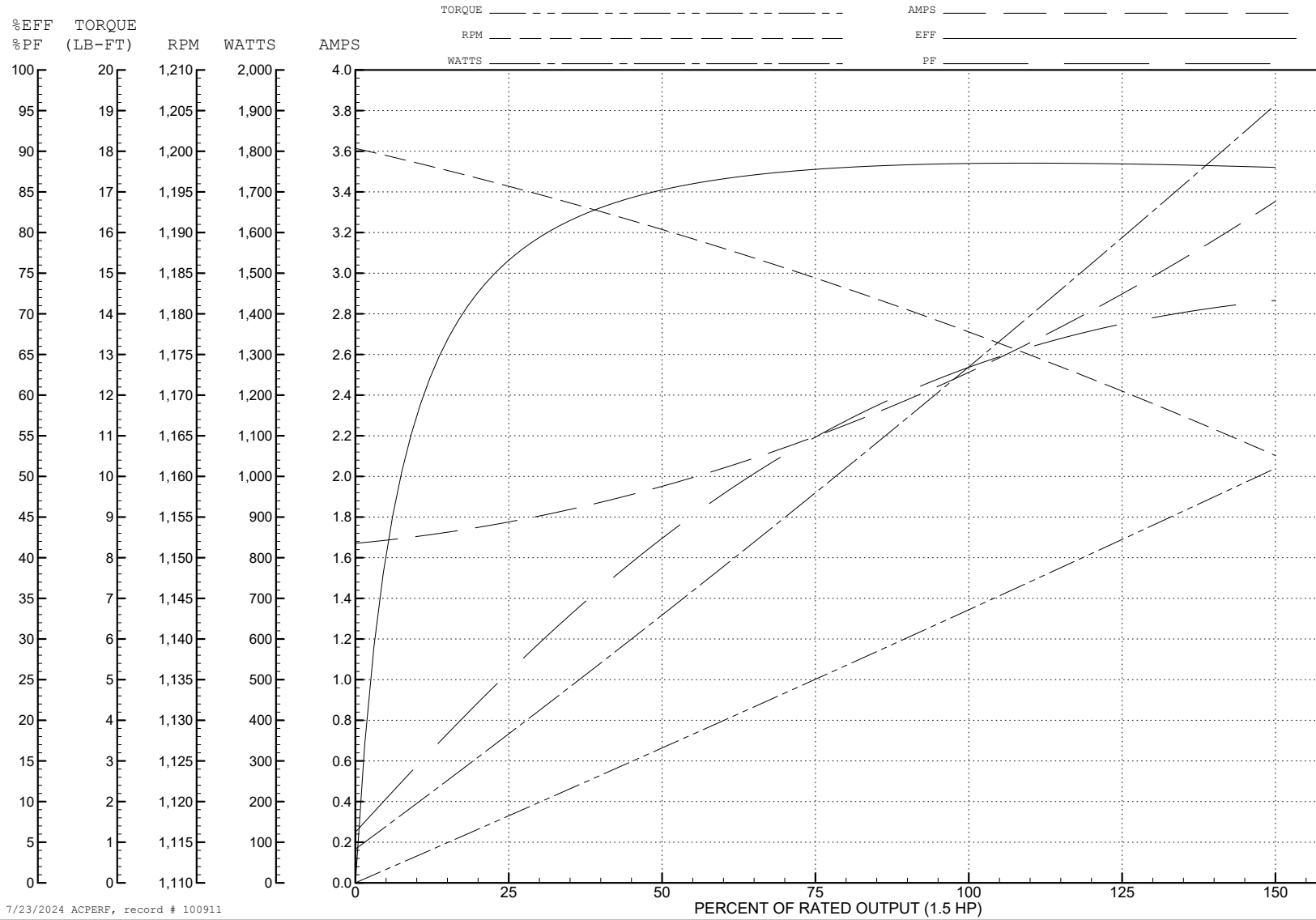
ABB Motors and Mechanical Inc.

WINDING # 36WGR643

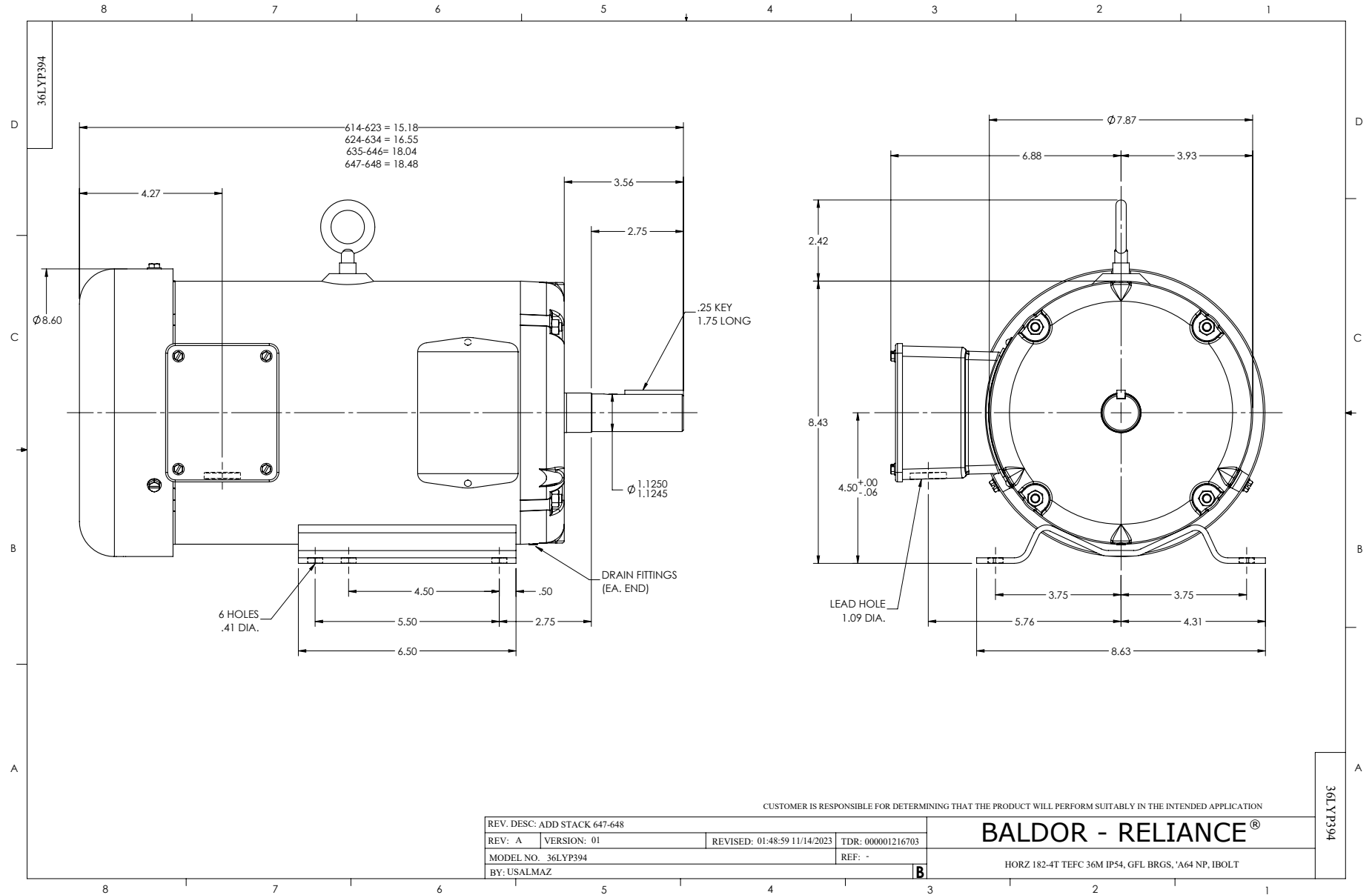
1.5 HP 3 PH 60 HZ 1175 RPM 460 V 3640M

Typical performance - not guaranteed values.

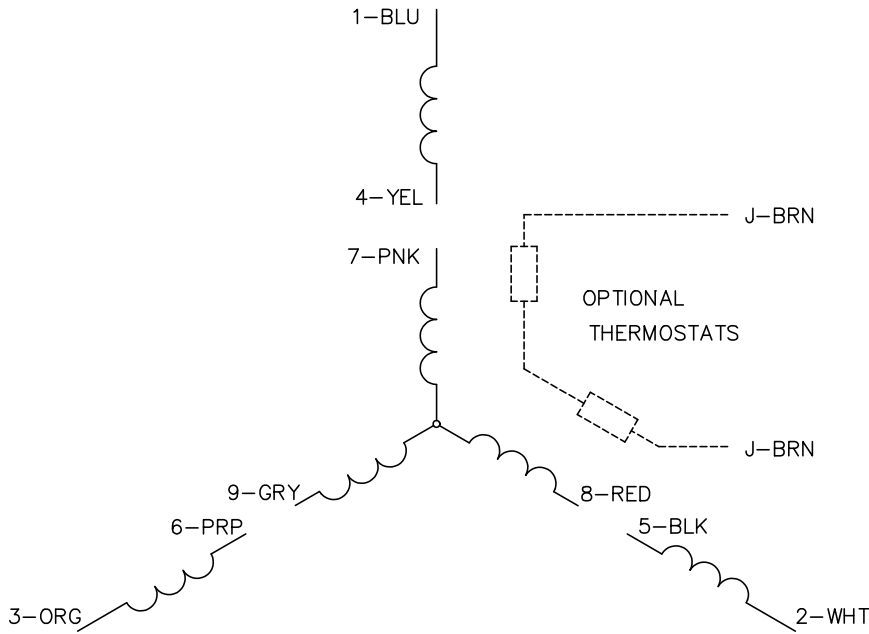
TORQUES (LB-FT): PO=28.1 PU=15 LR=19.6 LRA=19.2



7/23/2024 ACPERF, record # 100911



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

500000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS