

ABB BALDOR RELIANCE III

Customer information packet

SPM3212T

5HP, 3490RPM, 3PH, 60HZ, 182T, 3634M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM 4 WEEE
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	11.200 A @ 230.0 V 12.200 A @ 208.0 V 5.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a

Part Detail

Revision	C
Type	AC
Mech. spec.	36P391
Base	
Status	PRD/A
Elec. spec.	36WGT826
Layout	36LYP391
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	09-07-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.49 IN
Power Factor	93
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	3490 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 #	SPM3212T					WGT	81		LBS						
SPEC	36P391T826					ENCL	OPSB								
SER #						CC	010A		IP	22					
HP	5		MAG CUR			11.2/5.6									
VOLTS	230/460					NEMA NOM. EFF					91				
AMPS	11.2/5.6					PF	93								
RATING	40C AMB-CONT														
RPM	3490					MAX RPM		5400							
FRAME	182T		HZ	60		CODE	L		CLASS	F					
SER.F.	1.15		SF AMP						PH	3		DES	A		
DE	6206			ODE	6205										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	60		TO	90		1.5:1		
ID LOGO	WK2	0.15		CT	6		TO	60		10:1					
ID LOGO	SL HZ	1.8		VT	3		TO	60		20:1					
								QR							
YR															

AC Induction Motor Performance Data

Record # 100980

Typical performance - not guaranteed values

Winding: 36WGT826-R009			Type: 3634M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.6 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		11.2/5.6	Breakdown Torque		41.6 LB-FT		
R.P.M.		3490	Pull-up Torque		26 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		30.5 LB-FT		
NEMA Design Code		A	KVA Code		L	Starting Current	59.9 A
Service Factor (S.F.)		1.15	No-load Current		1.61 A		
NEMA Nom. Eff.		91	Power Factor		93	Line-line Res. @ 25°C	2.17 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		24°C		
S.F. Amps			Temp. Rise @ S.F. Load		31°C		
			Locked-rotor Power Factor		43.2		
			Rotor inertia		0.152 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	83	90	93	94	95	94
Efficiency	89.2	92	91.9	91.1	89.8	88.3	90.3
Speed	3572	3546	3518	3490	3458	3423	3471
Line amperes	2.16	3.15	4.32	5.58	6.96	8.51	6.41

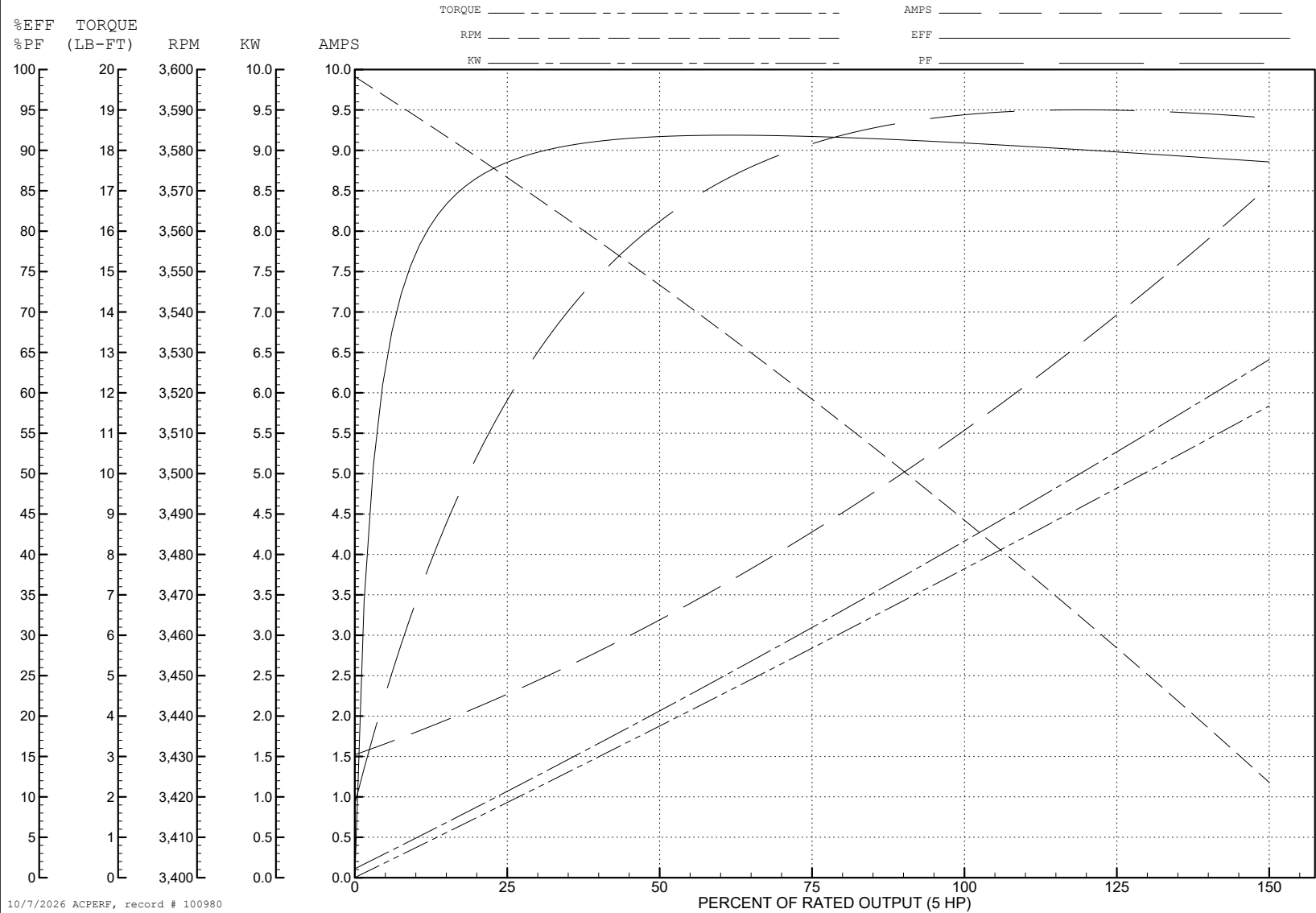
ABB Motors and Mechanical Inc.

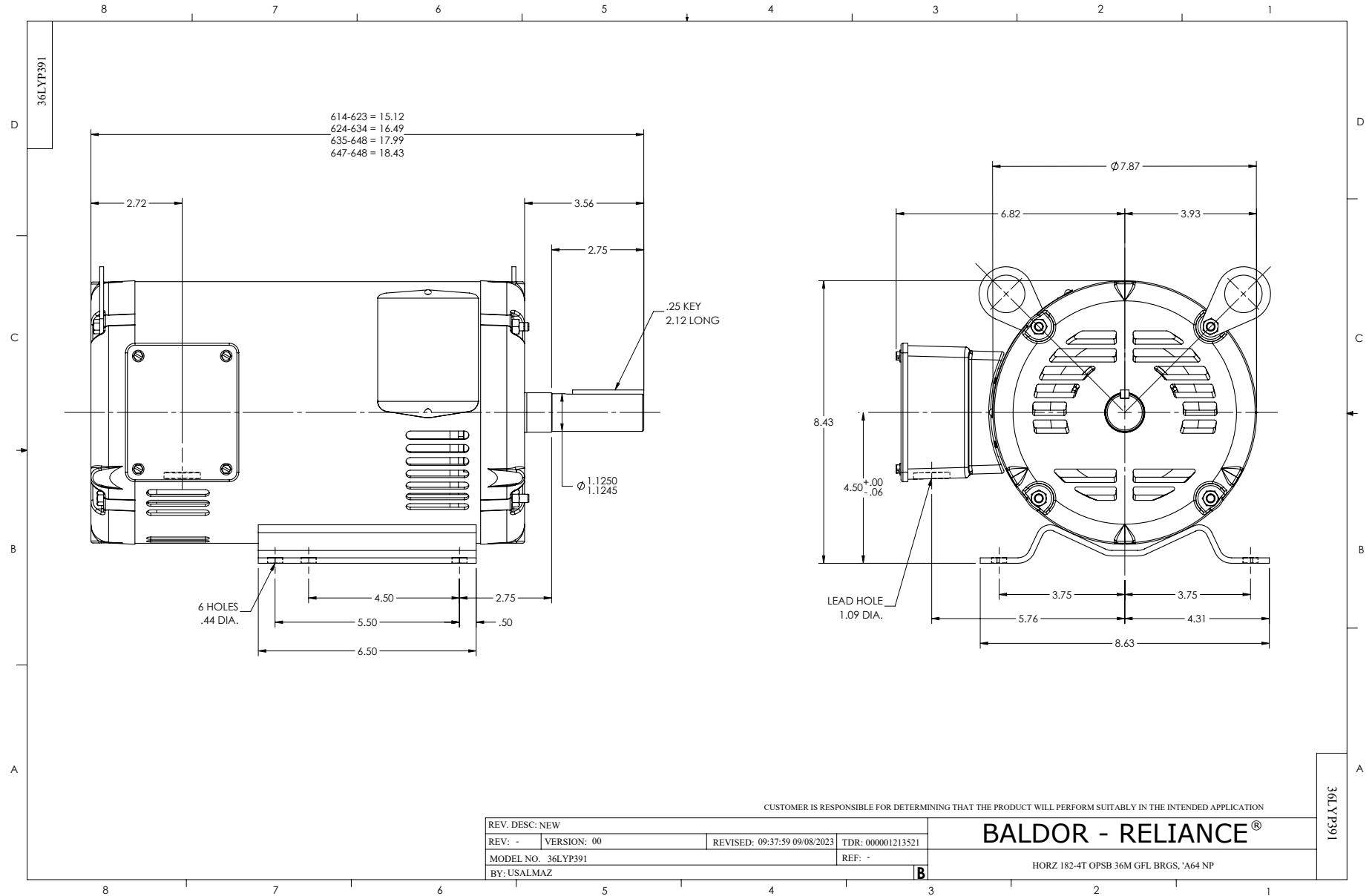
WINDING # 36WGT826

Typical performance - not guaranteed values.

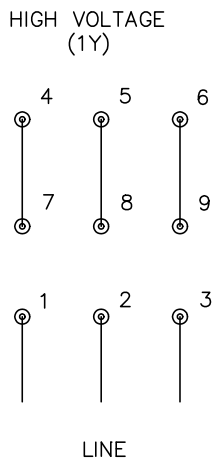
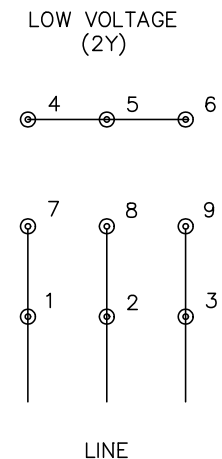
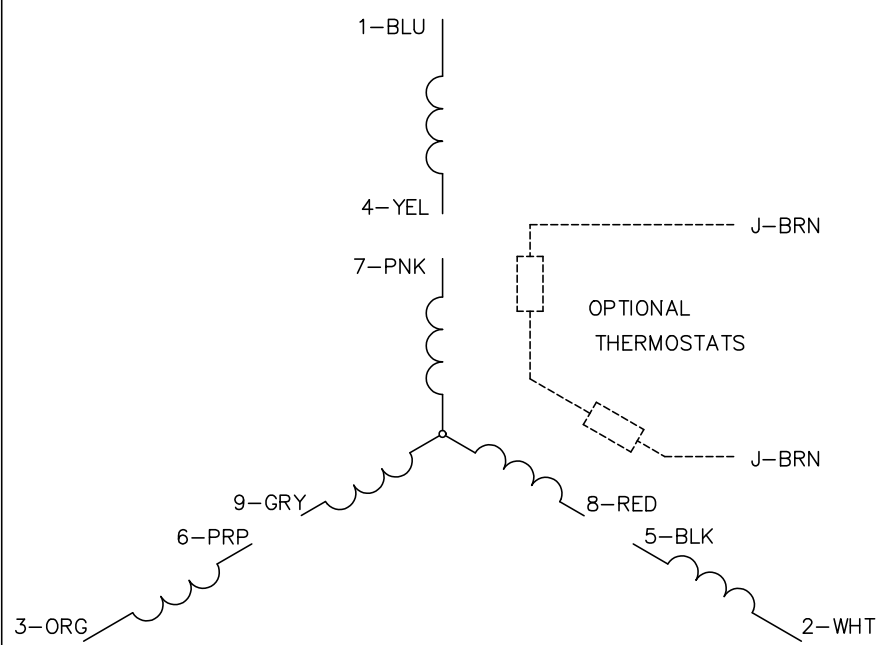
5 HP 3 PH 60 HZ 3490 RPM 460 V 3634M

TORQUES (LB-FT) : PO=41.6 PU=26 LR=30.5 LRA=59.9





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