

ABB BALDOR RELIANCE III

Customer information packet

SPM3313T

10HP, 1770RPM, 3PH, 60HZ, 215T, 3750M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	215T
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	10.000 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	12.100 A @ 460.0 V 24.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.1 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	37T645
Base	
Status	PRD/A
Elec. spec.	37WGZ671
Layout	37LYT645
Eff. date	05-03-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	09-05-2023

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.20 IN
Power Factor	82
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	1.375 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 #	SPM3313T					WGT	158	LBS					
SPEC	37T645Z671					ENCL	OPSB						
SER #						CC	010A	IP	22				
HP	10	MAG CUR				10.2/5.1							
VOLTS	230/460					NEMA NOM. EFF					92.4		
AMPS	24.2/12.1					PF	82						
RATING	40C AMB-CONT												
RPM	1770					MAX RPM			2700				
FRAME	215T	HZ	60	CODE		J	CLASS		F				
SER.F.	1.15	SF AMP	27.6/13.8				PH	3	DES	A			
DE	6307		ODE	6206									
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	1.18	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 # 96652

Typical performance - not guaranteed values

Winding: 37WGZ671-R001			Type: 3750M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.83 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		24.2/12.1	Breakdown Torque		105 LB-FT		
R.P.M.		1770	Pull-up Torque		47.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		66.1 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		107 A
Service Factor (S.F.)		1.15	No-load Current		6.05 A		
NEMA Nom. Eff.		92.4	Power Factor	82	Line-line Res. @ 25°C		0.89616 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps		27.6/13.8	Temp. Rise @ S.F. Load		44°C		
			Locked-rotor Power Factor		35.2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	74	79	82	84	81
Efficiency	87.9	92.1	92.9	92.7	92	91.2	92.3
Speed	1793.1	1787.3	1781.1	1774.3	1767.2	1759.6	1770
Line amperes	6.71	8.27	10.4	12.8	15.5	18.4	14.4

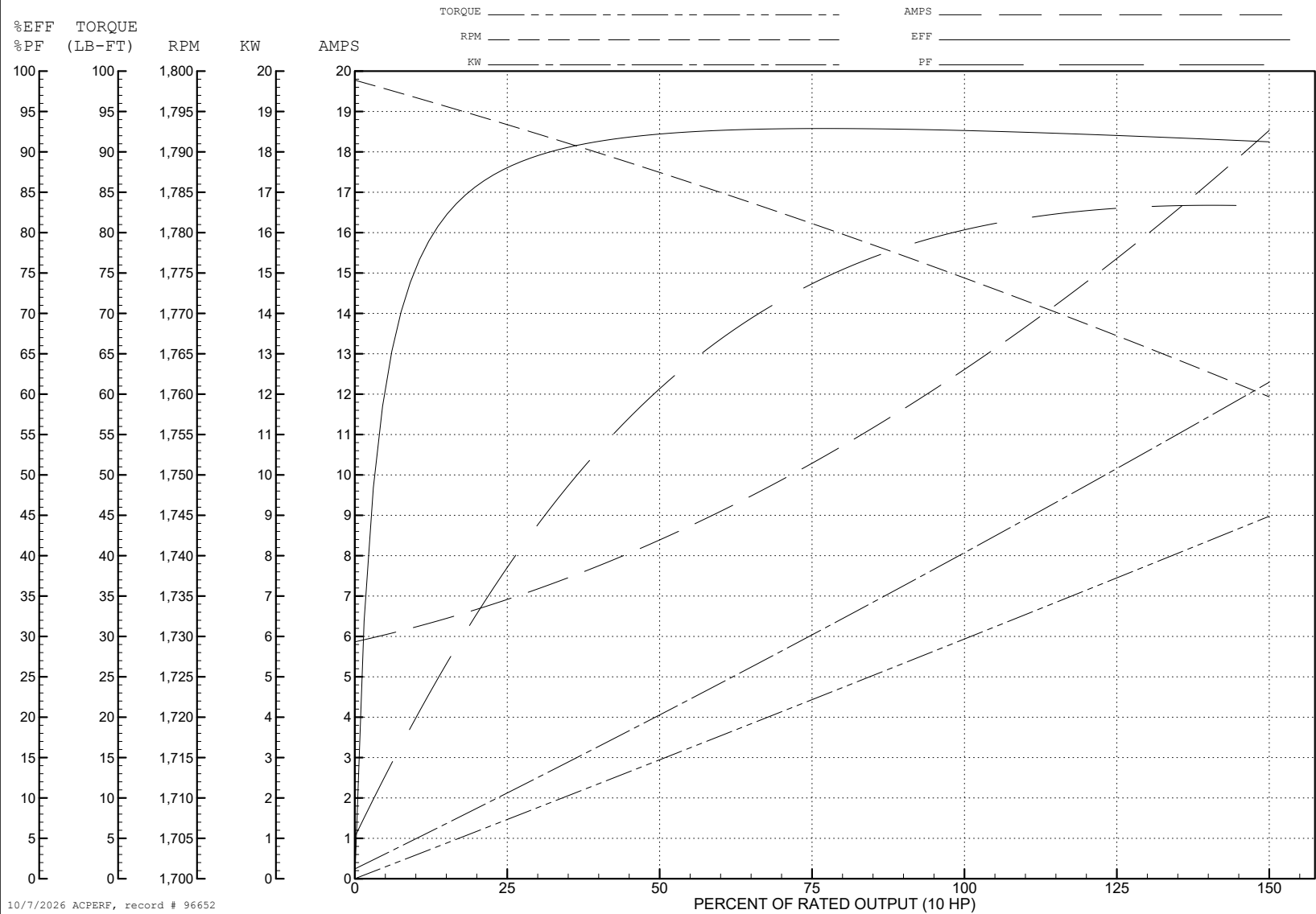
ABB Motors and Mechanical Inc.

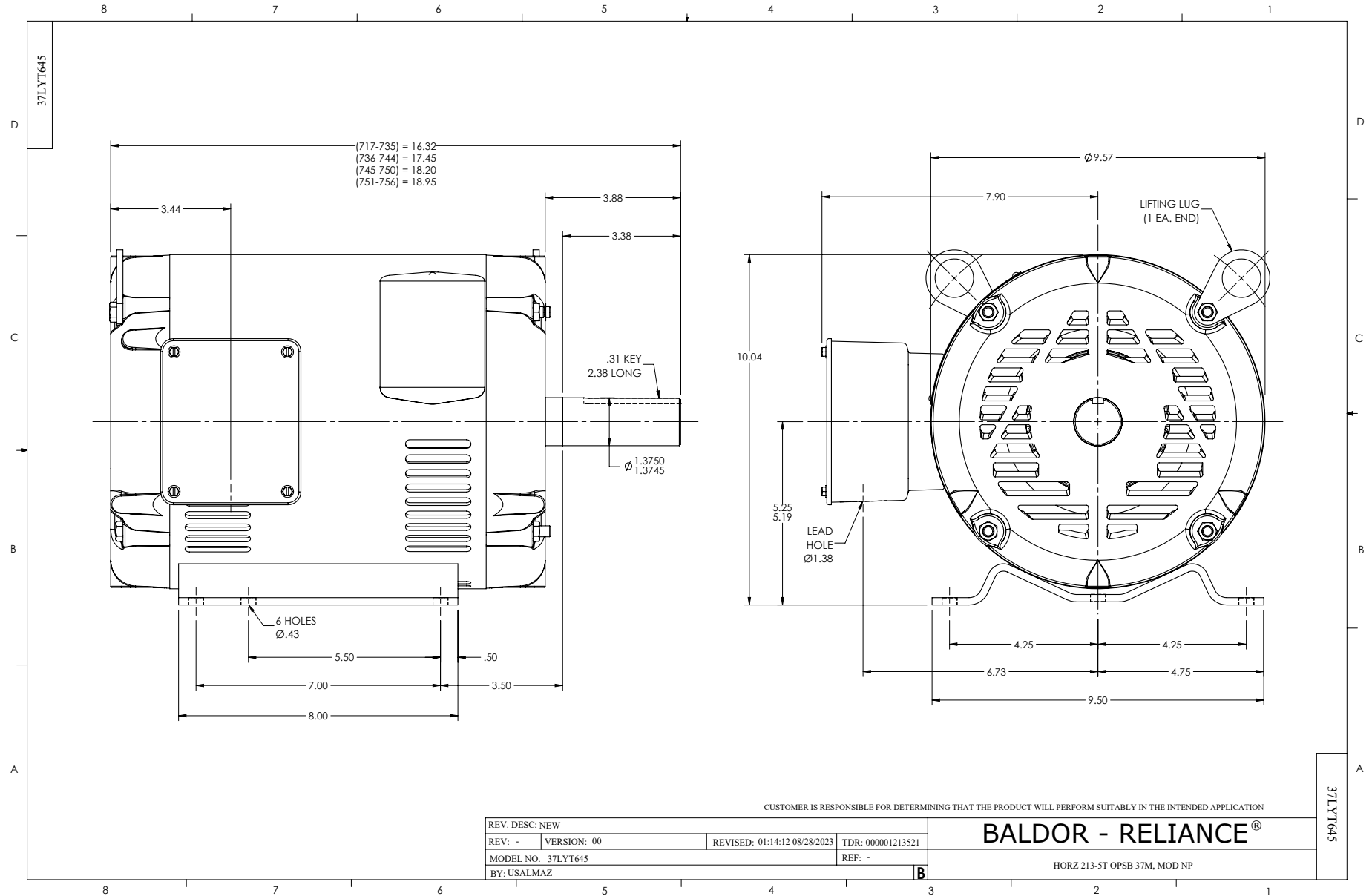
WINDING # 37WGZ671

Typical performance - not guaranteed values.

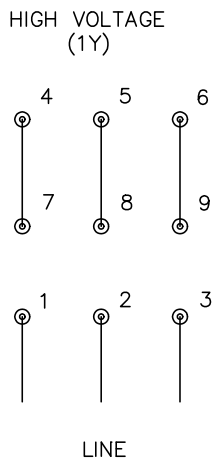
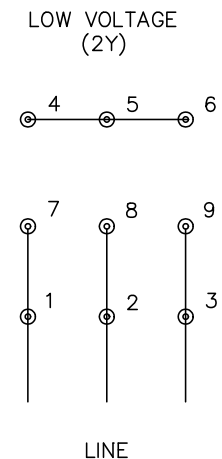
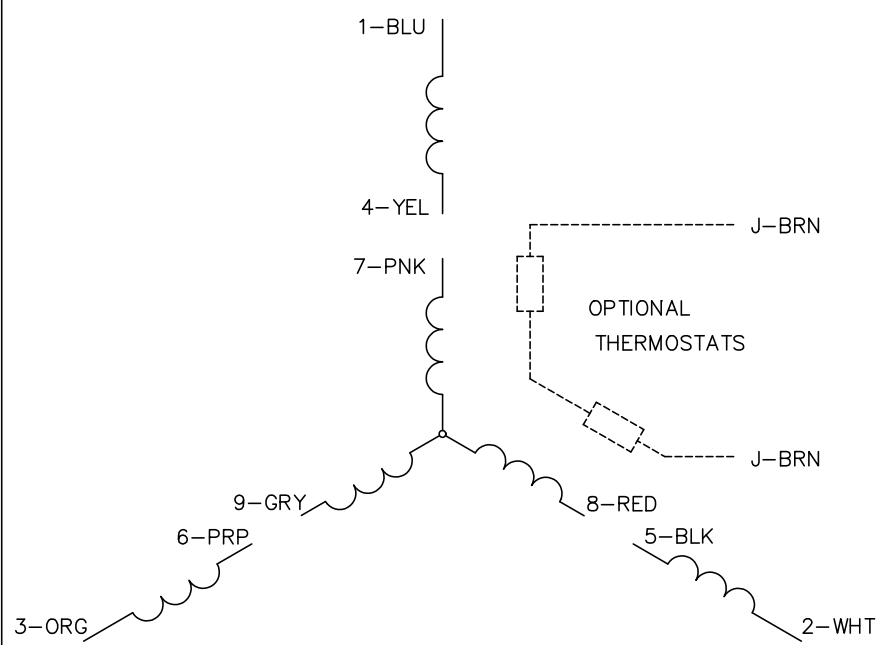
10 HP 3 PH 60 HZ 1770 RPM 460 V 3750M

TORQUES (LB-FT): PO=105 PU=47.5 LR=66.1 LRA=107





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