

ABB BALDOR RELIANCE III

Customer information packet

SPM3309T-G

5HP, 1160RPM, 3PH, 60HZ, 215T, 3744M, 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	5.000 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	NEMA PREMIUM 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	14.600 A @ 230.0 V 15.700 A @ 208.0 V 7.300 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.3 a

Part Detail

Revision	A
Type	AC
Mech. spec.	37T743
Base	
Status	PRD/A
Elec. spec.	37WGT973
Layout	37LYT743
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-03-2025

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.45 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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 #	SPM3309T-G					WGT	141	LBS					
SPEC	37T743T973					ENCL	OPSB						
SER #						CC	010A	IP	23				
HP	5	MAG CUR				7.6/3.8							
VOLTS	230/460					NEMA NOM. EFF					90.2		
AMPS	14.6/7.3						PF	71					
RATING	40C AMB-CONT												
RPM	1160					MAX RPM			1800				
FRAME	215T	HZ	60		CODE		K	CLASS		H			
SER.F.	1.25	SF AMP	17.6/8.8				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	1.09	CT	6	TO	60	10:1						
ID LOGO	SL HZ	2	VT	3	TO	60	20:1						
							QR						
YR													

AC Induction Motor Performance Data

Record # 112295

Typical performance - not guaranteed values

Winding: 37WGT973-R006			Type: 3744M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.6/7.3	Breakdown Torque		74.5 LB-FT		
R.P.M.		1160	Pull-up Torque		46 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		52.1 LB-FT	
NEMA Design Code		A	KVA Code		K		
Service Factor (S.F.)		1.25	Starting Current		52.1 A		
NEMA Nom. Eff.		90.2	Power Factor		71		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		30°C
S.F. Amps		17.6/8.8	Temp. Rise @ S.F. Load		41°C		
			Locked-rotor Power Factor		22.3		
			Rotor inertia		1.09 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	64	71	74	76	74
Efficiency	86.3	90.4	91	90.1	89.7	87.6	89.7
Speed	1190	1182	1174	1164	1153	1141	1153
Line amperes	4.18	4.95	6.01	7.31	8.82	10.6	8.82

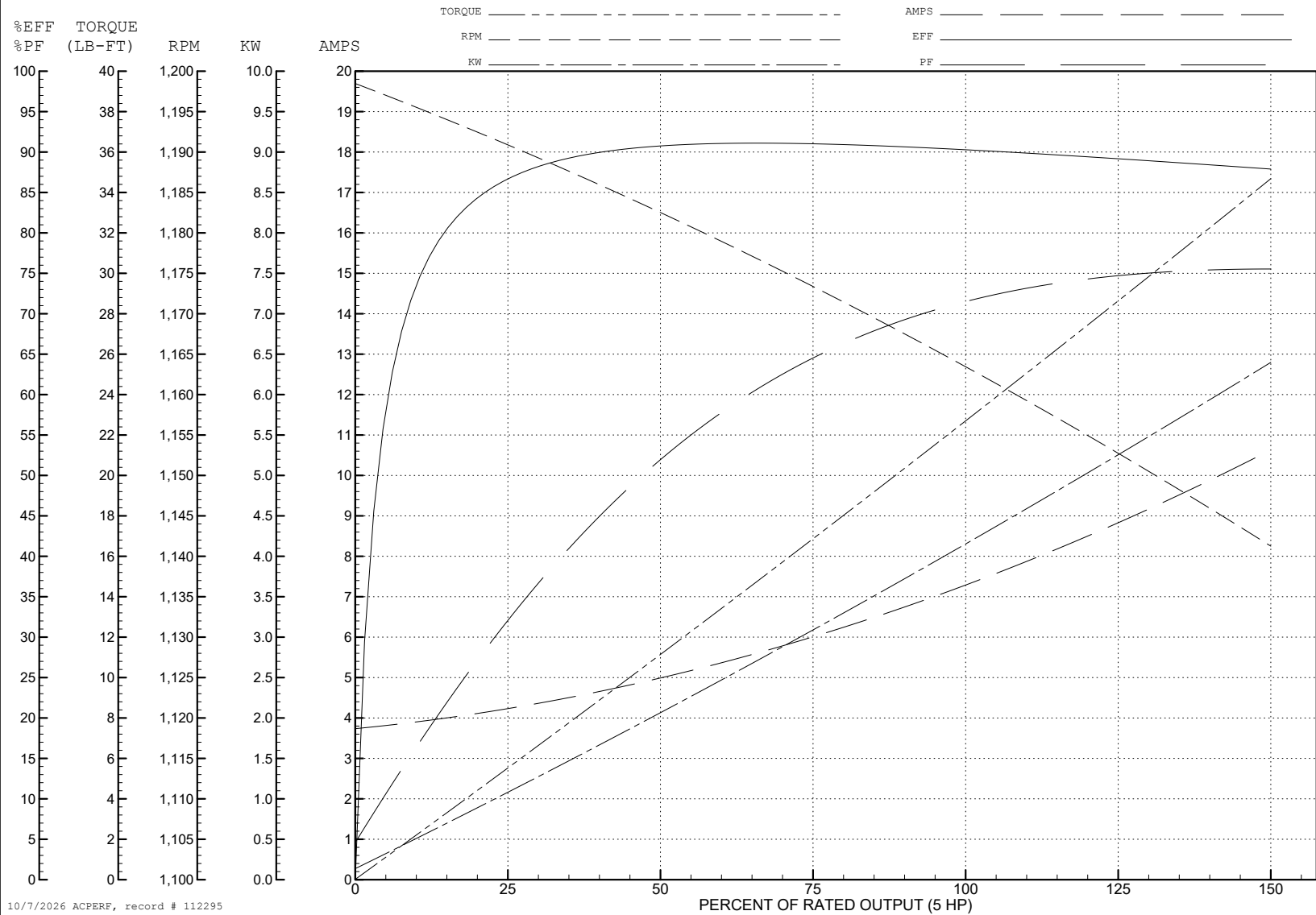
ABB Motors and Mechanical Inc.

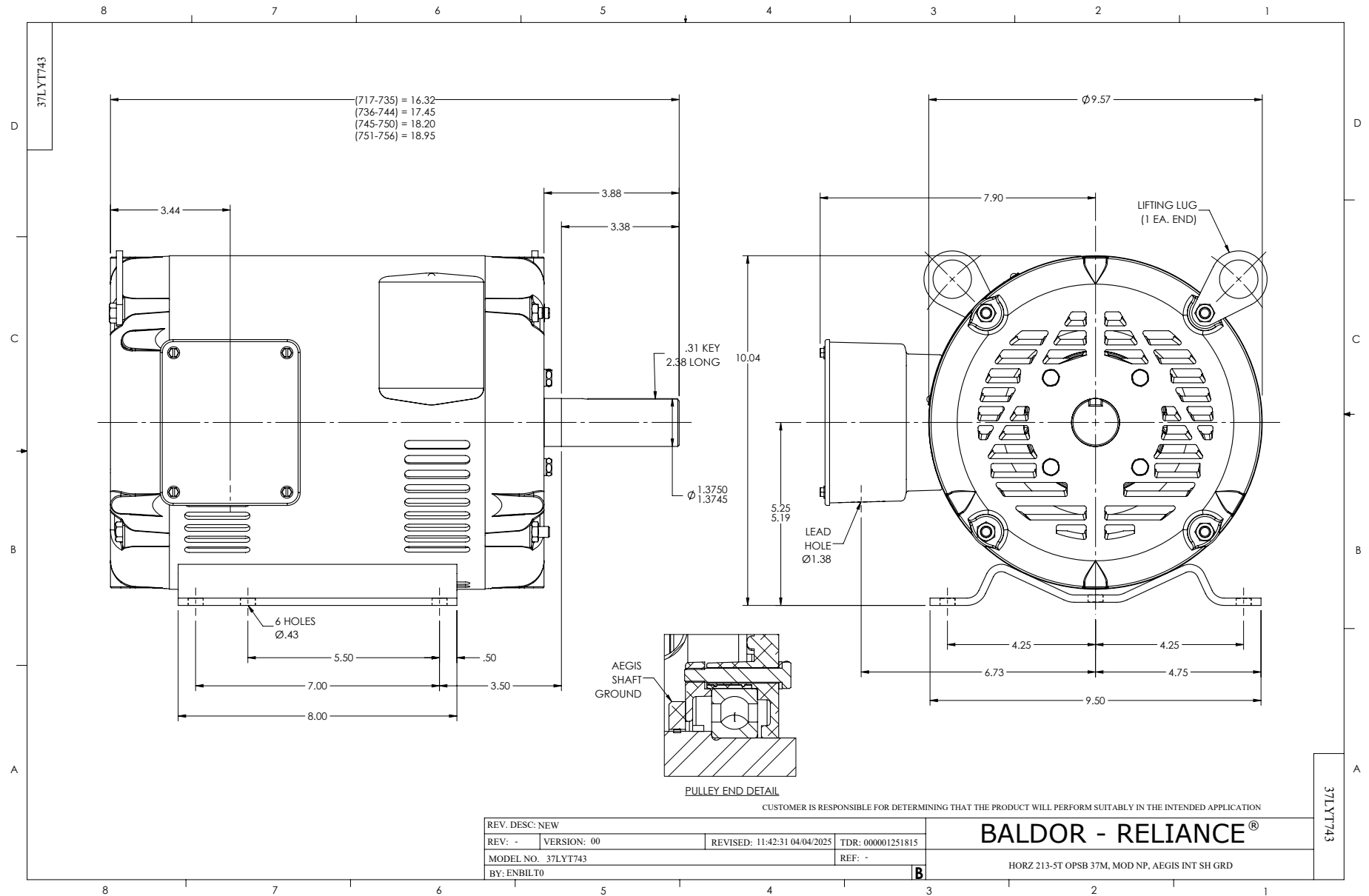
WINDING # 37WGT973

Typical performance - not guaranteed values.

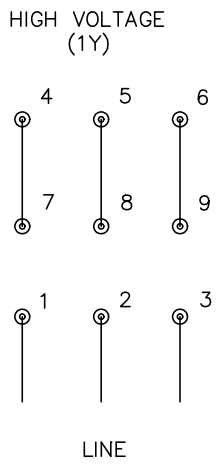
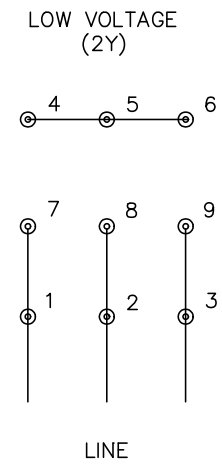
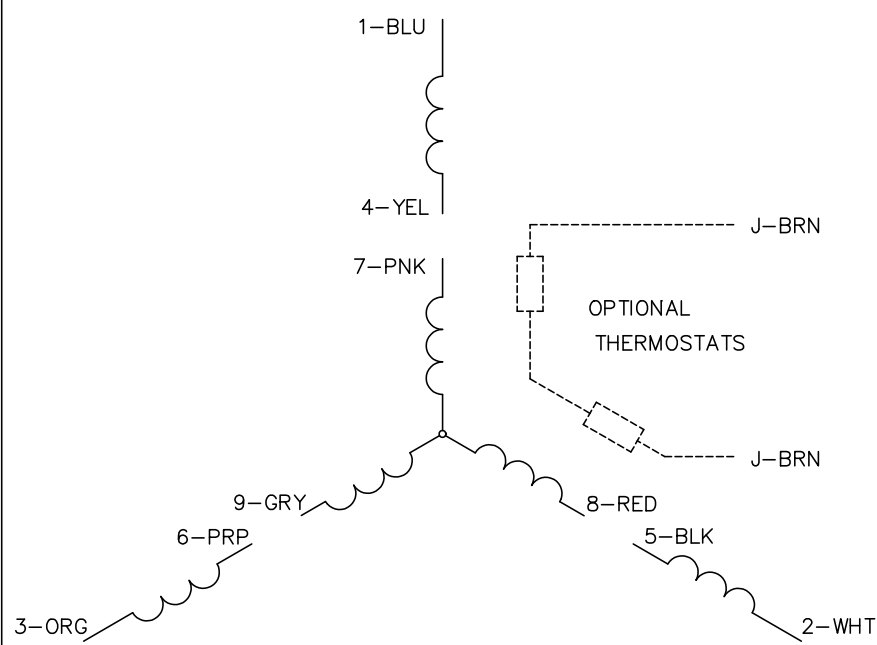
5 HP 3 PH 60 HZ 1160 RPM 460 V 3744M

TORQUES (LB-FT): PO=74.5 PU=46 LR=52.1 LRA=52.1





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