ABB BALDOR RELIANCE

Customer information packet

EBM3704TY

3HP, 1160RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	3.000 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
	CURUSEEV
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
Brake Torque	35.0 lb-ft
Current @ Voltage	4.600 A @ 460.0 V
	9.200 A @ 230.0 V
	9.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None

Part Detail

Revision	H
Type	AC
Mech. spec.	37A021
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYA021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	10-01-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.01 IN
Power Factor	68
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 Extension Location	Pulley End
Shaft Ground Indicator	No 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

	NP1259L								
CAT.NO.	EBM3704TY								
SPEC.	37A021S519G2								
HP	3								
VOLTS	230/460								
AMP	9.2/4.6								
RPM	1160								
FRAME	213T	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	68						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6306						
ENCL	TEFC	**SN**							

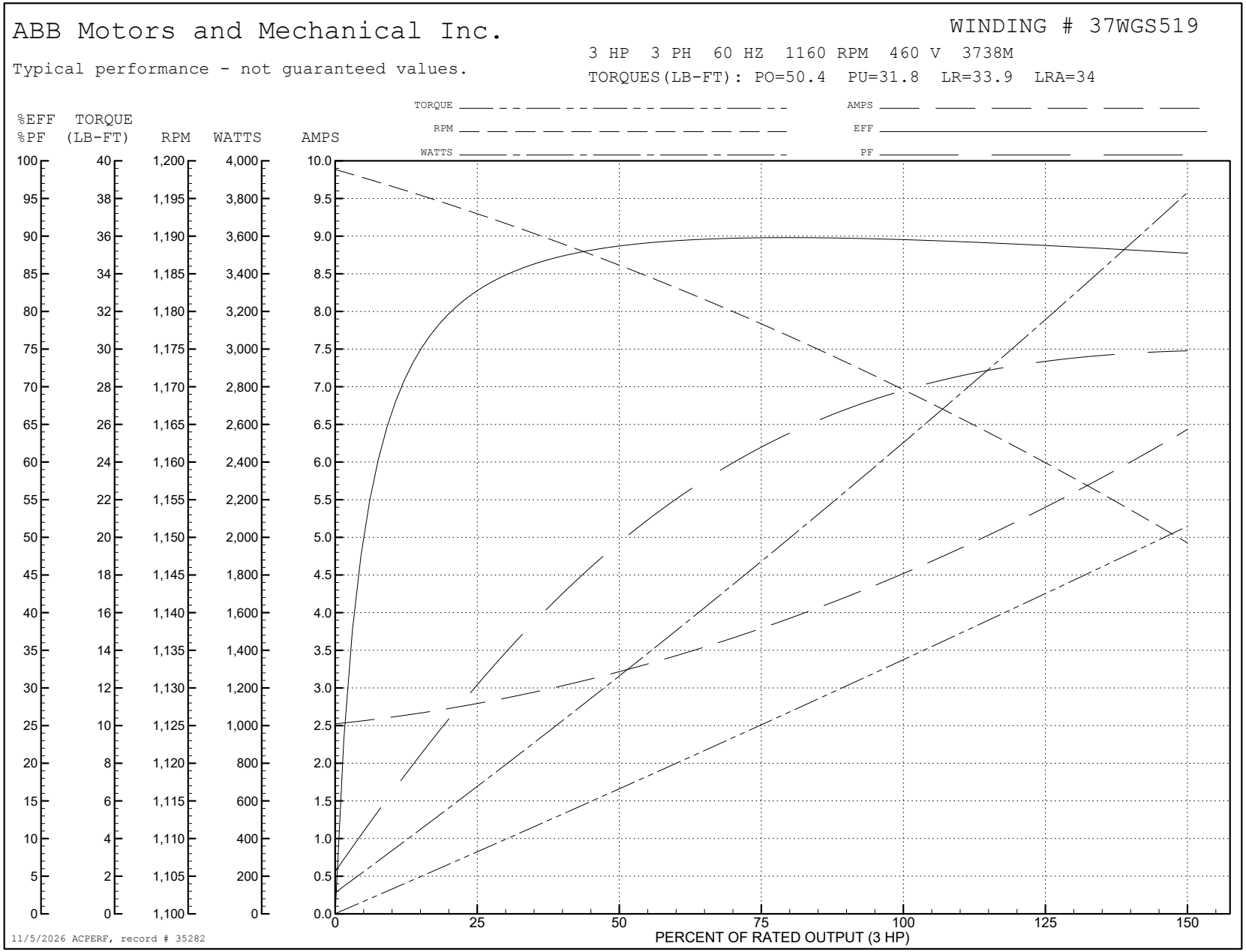
AC Induction Motor Performance Data
Record # 35282
Typical performance - not guaranteed values

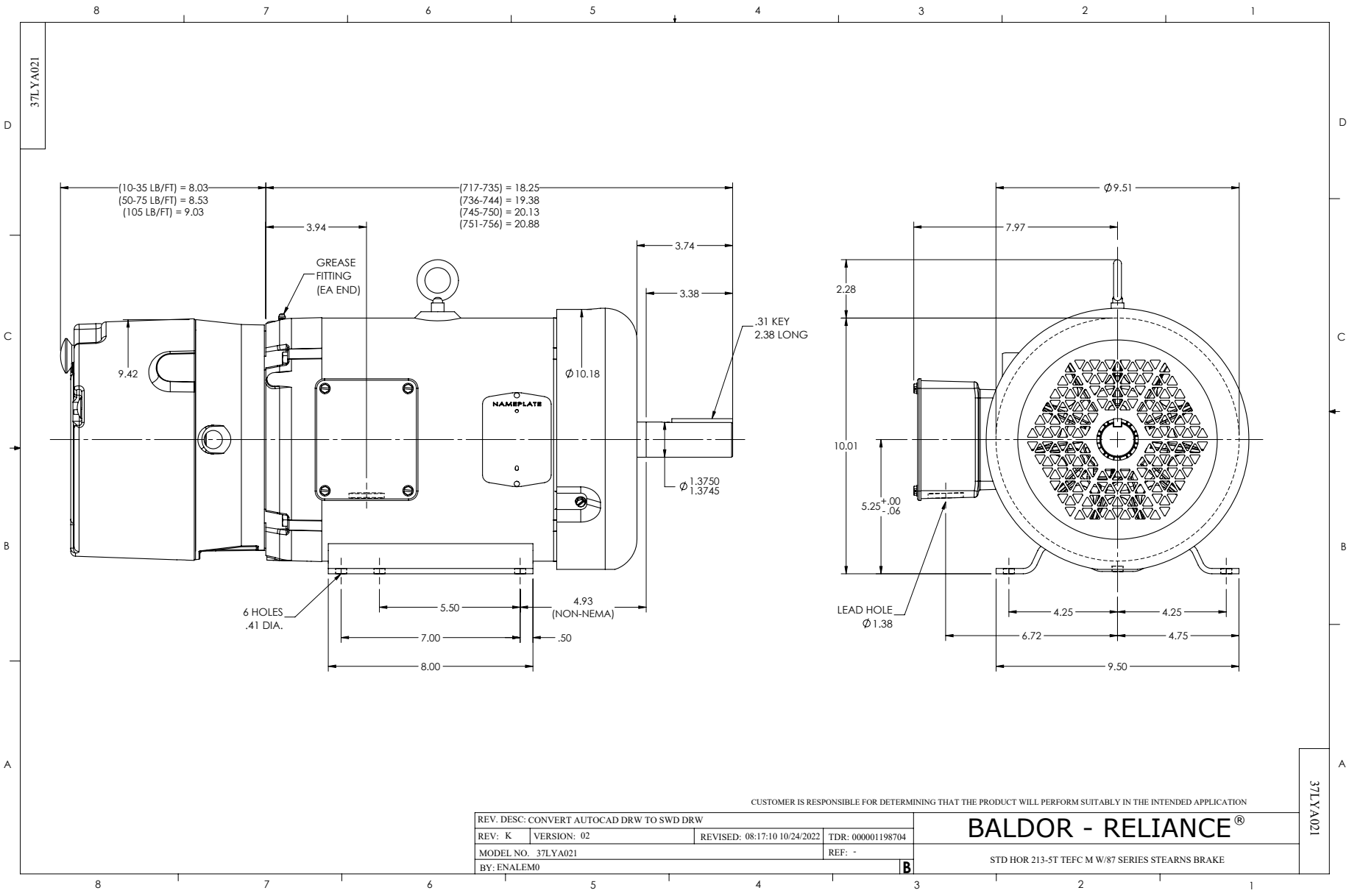
Winding: 37WGS519-R002	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6	**Breakdown Torque**	50.4 LB-FT
R.P.M.			1160	**Pull-up Torque**	31.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34 A
Service Factor (S.F.)			1.15	**No-load Current**	2.56 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

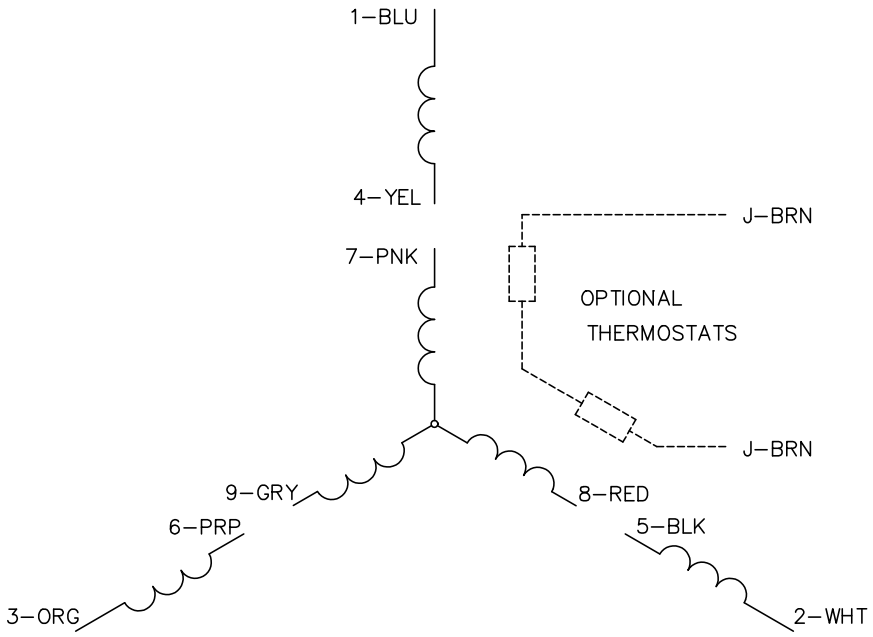
Load Characteristics 460 V, 60 Hz, 3 HP

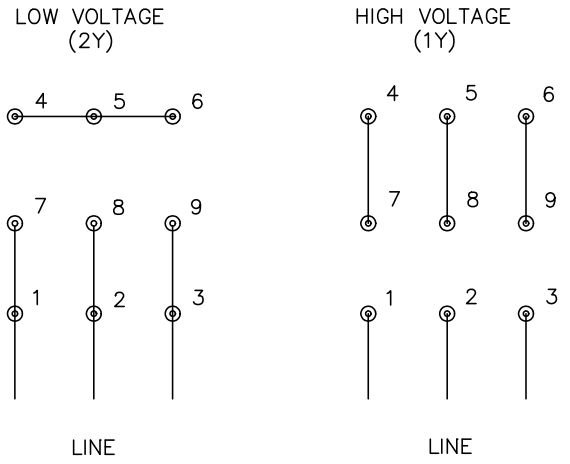
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14


ABB Motors and Mechanical Inc.
WINDING # 37WGS519
3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/5/2026 ACPERF, record # 35282


37LYA021
(10-35 LB/FT) = 8.03
(50-75 LB/FT) = 8.53
(105 LB/FT) = 9.03
(717-735) = 18.25
(736-744) = 19.38
(745-750) = 20.13
(751-756) = 20.88
3.94
3.74
3.38
GREASE FITTING (EA END)
.31 KEY 2.38 LONG
9.42
Ø10.18
NAMEPLATE
Ø1.3750 1.3745
6 HOLES .41 DIA.
5.50
4.93 (NON-NEMA)
7.00
.50
8.00
Ø9.51
7.97
2.28
10.01
5.25 +.00 -.06
LEAD HOLE Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: K
VERSION: 02
REVISED: 08:17:10 10/24/2022
TDR: 000001198704
MODEL NO. 37LYA021
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 213-5T TEFC M W/87 SERIES STEARNS BRAKE
37LYA021

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS