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# Customer information packet

## EBM3714T-D

10HP, 1770RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CE CSA UR
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
Brake Torque	50.0 lb-ft
Current @ Voltage	24.000 A @ 230.0 V 25.400 A @ 208.0 V 12.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Fan Housing Cover For Brake

## Part detail

Revision	Q
Type	AC
Mech. spec.	37M908
Base	
Status	PRD/A
Elec. spec.	37WGS518
Layout	37LYM908
Eff. date	10-04-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-22-2013

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.92 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	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

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**Nameplate**

<b>NP4304L</b>									
<b>CAT.NO.</b>	EBM3714T-D								
<b>SPEC.</b>	37M908S518G1								
<b>HP</b>	10/7.5KW	<b>PH</b>	3						
<b>VOLTS</b>	230/460								
<b>AMPS</b>	24/12								
<b>R.P.M. (1/MIN)</b>	1770	<b>WT.</b>	75	<b>KG</b>					
<b>FRAME</b>	215T	<b>HZ</b>	60	<b>I.P.</b>	44				
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES.</b>	A	<b>CLASS</b>	F		
<b>NOM.EFF.</b>	91.7	% (100%)							
<b>P.F.</b>	85	IC411							
<b>RATING</b>	40C AMB-CONT	<b>CC</b>	010A						
<b>DE</b>	6307	<b>ODE</b>	6206						
<b>ENCL</b>	TEFC	<b>SN</b>							
	IE3 93.0 (75%) 92.6 (50%)								

**AC Induction Motor Performance Data**

Record # 89631

Typical performance - not guaranteed values

<b>Winding: 37WGS518-R015</b>		<b>Type: 3752M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.68 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	24/12	<b>Breakdown Torque</b>	110 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	58.7 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	68 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	K	<b>Starting Current</b>	103 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	5.52 A	
<b>NEMA Nom. Eff.</b>	91.7 <b>Power Factor</b>	85	<b>Line-line Res. @ 25°C</b>	0.95644 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	66°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	82°C	
			<b>Locked-rotor Power Factor</b>	35.5042	

**Load Characteristics 460 V, 60 Hz, 10 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	42	65	76	81	84	85	83
<b>Efficiency</b>	89	92.6	93	92.6	91.8	90.6	92.1
<b>Speed</b>	1792.8	1786.1	1778.9	1771.1	1762.8	1753.5	1766
<b>Line amperes</b>	6.22	7.82	9.98	12.5	15.2	18.2	14.1

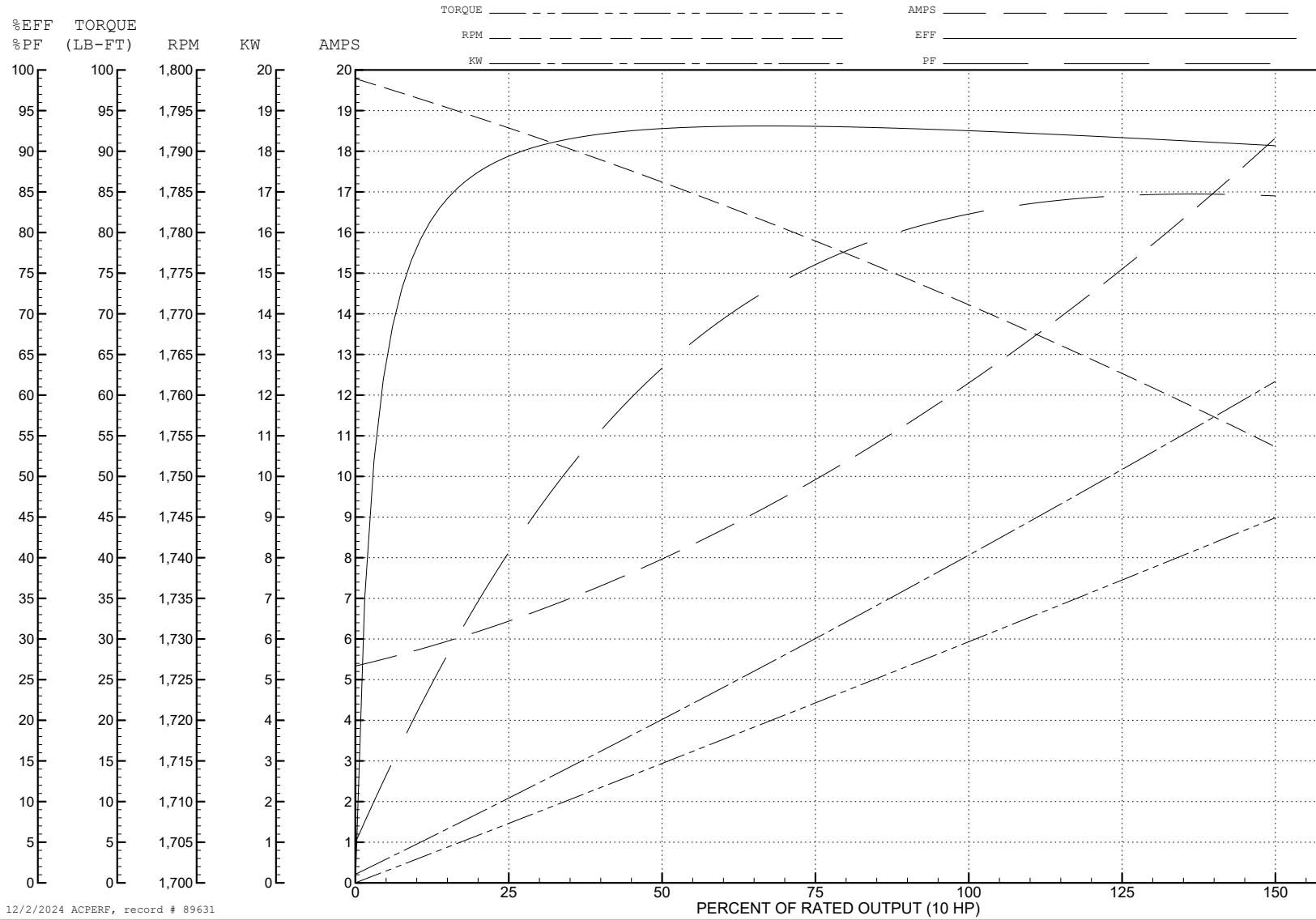
ABB Motors and Mechanical Inc.

WINDING # 37WGS518

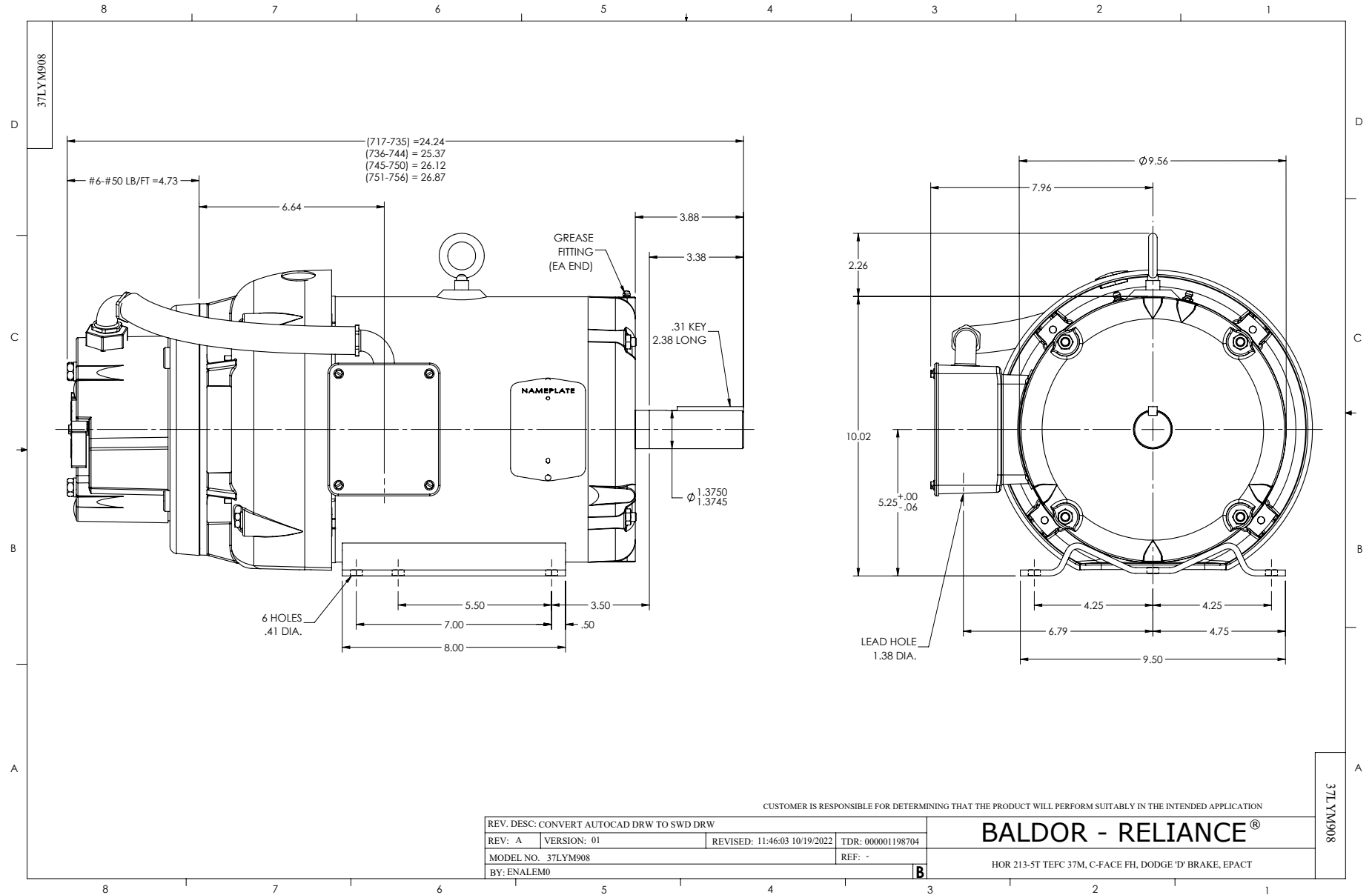
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

TORQUES (LB-FT): PO=110 PU=58.7 LR=68 LRA=103



12/2/2024 ACPERF, record # 89631

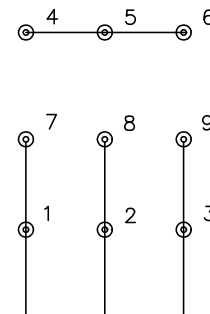




CD0005



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4

B1 WHITE  
B2 BLACK  
B3 GRAY  
B4 BLUE  
B5 RED

CD2120

REV. DESC: NEW		TDR: 000000741785	
REV. LTR: -	VERSION: 00	REVISD: 12: 28:11 04/12/2012	
FILE: \CKA\00037\282		BY: CKRONSO	
MTL: -			

**BALDOR • DODGE • RELIANCE**

D-SERIES MOTOR BRAKE 5LD AC\DC  
SH 1 of 1