

**BALDOR • RELIANCE**

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# Customer information packet

## HBEM3704T

38M 6P TEFC HOR 213T

Class - None

Division - Not Applicable

## 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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV 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	9.200 A @ 230.0 V 9.600 A @ 208.0 V 4.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	G
Type	AC
Mech. spec.	37T556
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYT556
Eff. date	02-03-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-05-2022

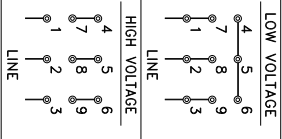
High Voltage Full Load Amps	4.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.02 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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	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

**BALDOR • RELIANCE**  
**CRITICAL COOLING**

CAT#	HBEM3704T	WGT	138	LBS	
SPEC	3T156S51961	ENCL	TEFC		
SER#	***	CC	070A	IP	54
HP	3	INS	5-1/2-55	NEMA	89.5 %
VOLTS	230/460	EFF	68	PF	68 %
AMPS	9.2/4.6				
RATING	40C AMB-CONT				
RPM	1160	MAX RPM	1800		
FRAME	213T	HZ	60	CODE	L
SER.F.	1.15	SF AMP	10.2/5.1	PH	3 DES B
BEARINGS	DE 6307	IDDE	6206	YR	***
LUBE	POLYREX EM				



INW. TYPE:	WPMW	HP	60	TO 90	HZ(1.5:1)
WK	0.9650	LBFT	CT 6	TO 60	HZ(10:1)
SL. HZ	1.50	WT	3	TO 60	HZ(20:1)



T*STAT {0 J	
LEADS {0 J	
(WHEN RED D.)	
INTERCHANGE ANY TWO LINE	
LEADS TO REV. ROTATION.	

**NEMA ENERGY PREMIUM**  
**EFFUS E46145**

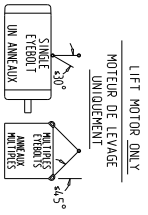
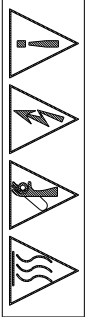


ABB MOTORS AND MECHANICAL INC.  
5771 R.S. BOREHAM JR., ST. FORT SMITH, AR.  
MFG IN U.S.A.

**AC Induction Motor Performance Data**

Record # 57247

Typical performance - not guaranteed values

Winding: 37WGS519-R037		Type: 3738M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
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	Locked-rotor Torque	33.9 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	34 A	
Service Factor (S.F.)	1.15	No-load Current	2.56 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	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-FT <sup>2</sup>	

**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

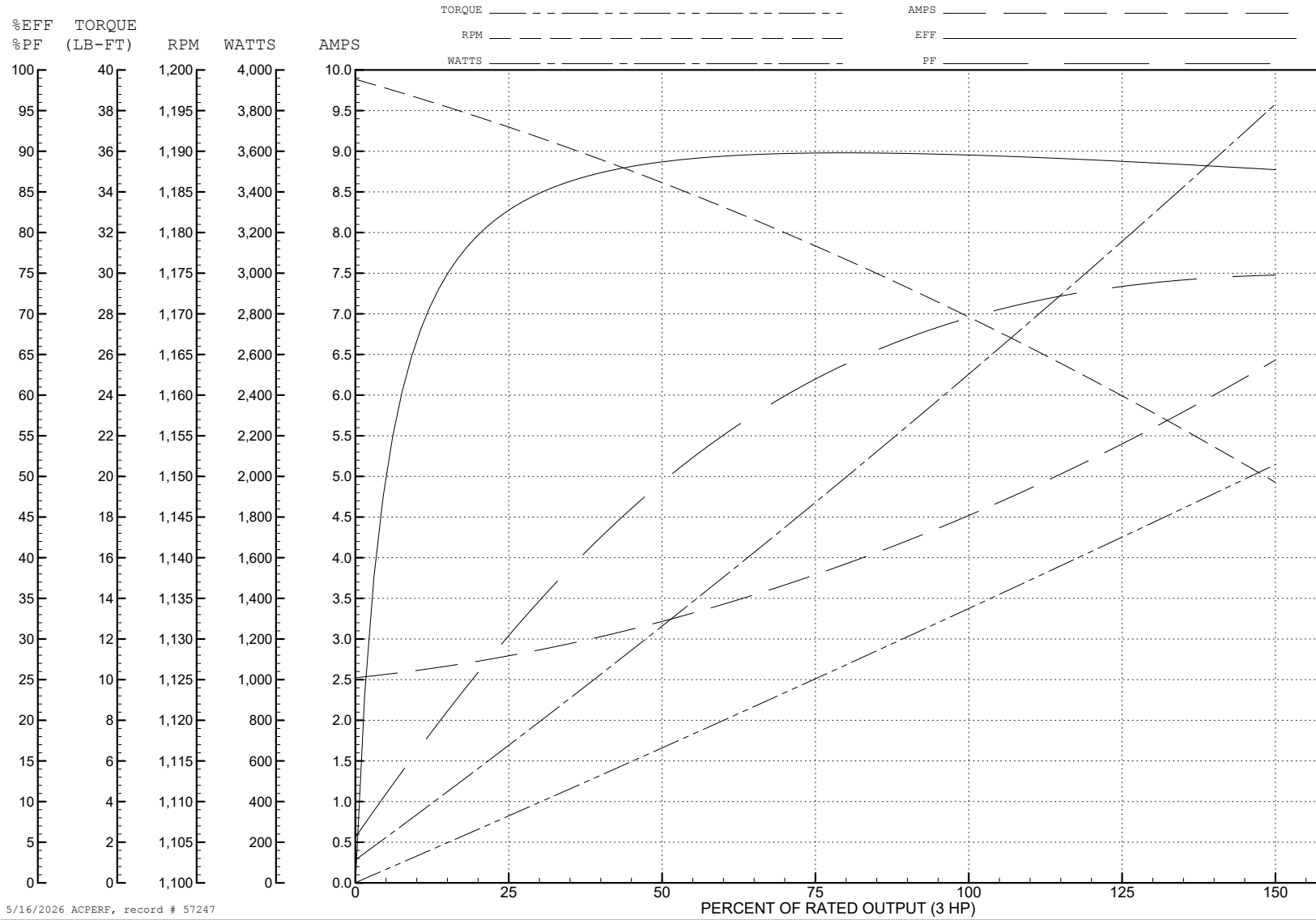
ABB Motors and Mechanical Inc.

WINDING # 37WGS519

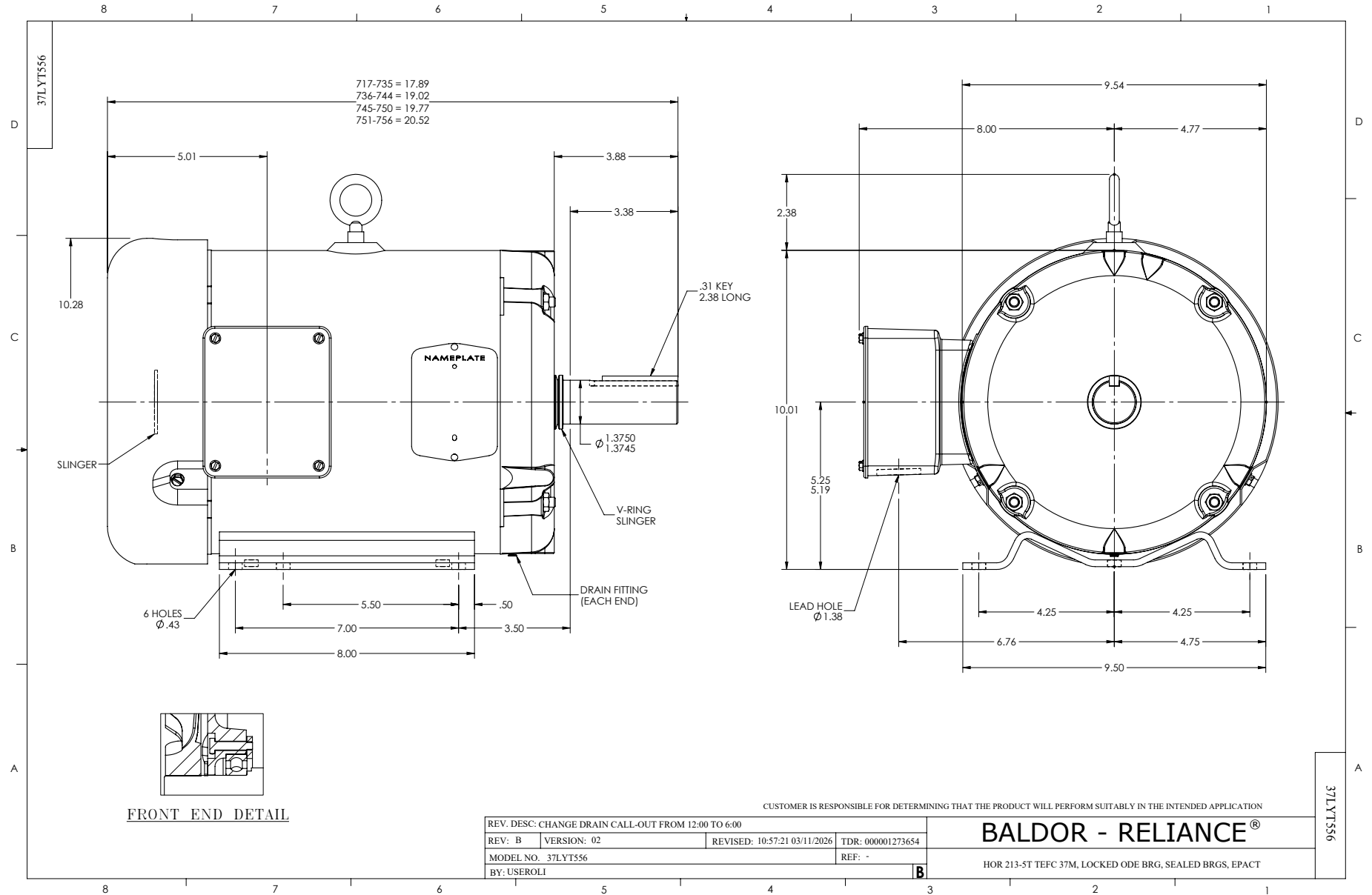
3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34



5/16/2026 ACPERF, record # 57247



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.

CD0005

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