

ABB BALDOR RELIANCE III

Customer information packet

VEM3714T

10HP, 1768RPM, 3PH, 60HZ, 215TC, 3750M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.400 A @ 460.0 V 24.800 A @ 230.0 V 27.000 A @ 208.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.4 a

Part Detail

Revision	B
Type	AC
Mech. spec.	37A003
Base	
Status	PRD/A
Elec. spec.	37WGZ711
Layout	37LYA003
Eff. date	05-01-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-05-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	20.50 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1768 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

NP3441LUA									
CAT.NO.	VEM3714T								
SPEC	37A003Z711								
HP	10								
VOLTS	230/460								
AMPS	24.8/12.4								
RPM	1768								
FRAME	215TC		HZ	60		PH	3		
SF	1.15	CODE	K	DES	A	CLASS	F		
NEMA NOM. EFF	91.7	PF	85						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY		SFA 28.2/14.1							
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 10HP 190/380V 29.8/14.9A						SF1.0		

Parts List

Part number	Description	Quantity
SA443055	SA 37A003Z711	1.000 ea
RA435551	RA 37A003Z711	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSL D SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A18	THRUBOLT- 5/16-18 X14.000	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3441LUA	AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
PK3082	STYROFOAM CRADLE	2.000 ea

PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea

AC Induction Motor Performance Data

Record # 115760

Typical performance - not guaranteed values

Winding: 37WGZ711-R001			Type: 3750M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		29.79 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		24.8/12.4	Breakdown Torque		93.4 LB-FT		
R.P.M.		1768	Pull-up Torque		44.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		55.5 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		90.5 A
Service Factor (S.F.)		1.15	No-load Current		5.11 A		
NEMA Nom. Eff.		91.7	Power Factor	85	Line-line Res. @ 25°C		1.1801 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		77°C
S.F. Amps		28.2/14.1	Temp. Rise @ S.F. Load		108°C		
			Locked-rotor Power Factor		37.2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	82	85	85	84
Efficiency	89.9	92.6	92.6	91.8	90.5	88.9	91
Speed	1792.4	1785	1776.3	1767.2	1756.7	1745.2	1756
Line amperes	5.83	7.54	9.79	12.4	15.3	18.6	14.2

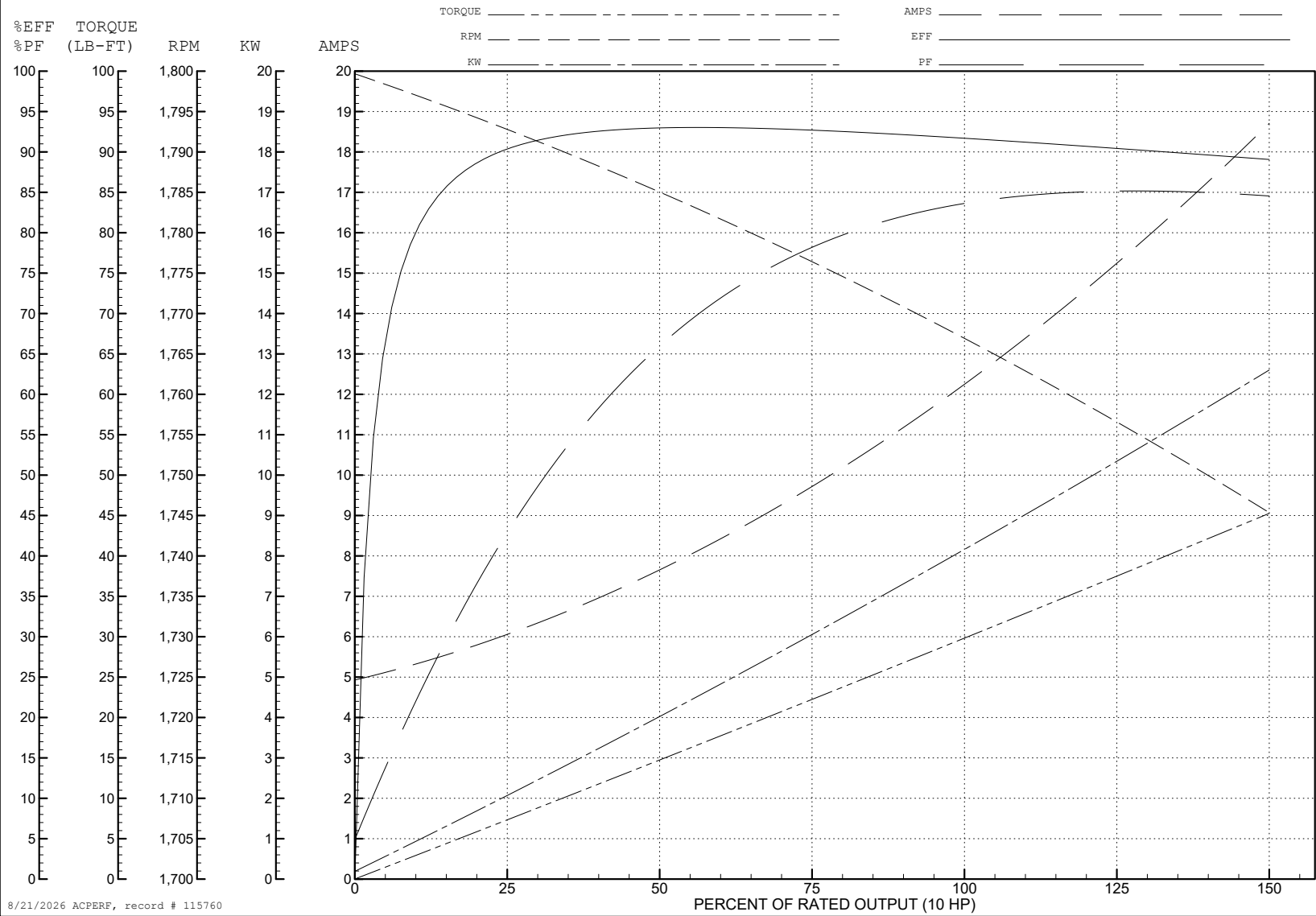
ABB Motors and Mechanical Inc.

WINDING # 37WGZ711

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1768 RPM 460 V 3750M

TORQUES (LB-FT): PO=93.4 PU=44.7 LR=55.5 LRA=90.5



8/21/2026 ACPERF, record # 115760

