

ABB BALDOR RELIANCE III

Customer information packet

EWCM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TCZ, 3756M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TCZ
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	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	25.200 A @ 230.0 V 26.600 A @ 208.0 V 12.600 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	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	37N046
Base	
Status	PRD/A
Elec. spec.	37WGR366
Layout	37LYN046
Eff. date	04-22-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	05-19-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	12.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.45 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 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

Nameplate

NP3441L											
CAT.NO.	EWCM3714T										
SPEC.	37N046R366G1										
HP	10										
VOLTS	230/460										
AMP	25.2/12.6										
RPM	1770										
FRAME	215TCZ		HZ	60				PH	3		
SER.F.	1.15	CODE	L	DES	A	CL	F				
NEMA-NOM-EFF	91.7	PF	80								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Parts List

Part number	Description	Quantity
SA301353	SA 37N046R366G1	1.000 ea
RA288431	RA 37N046R366G1	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
37EP3101A29	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3401T11	EP PU ENCL 309 BRG W/GRSR & RELIEF, META	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD 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
HA2009A02	ALUM SLINGER 309 BRG CLOSE CPL PUMP MOTO	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	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
HA3104A25	THRUBOLT .31-18 X 14.75	4.000 ea

LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 50991

Typical performance - not guaranteed values

Winding: 37WGR366-R002			Type: 3756M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10	Full Load Torque		29.4 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		25.2/12.6	Breakdown Torque		152 LB-FT	
R.P.M.		1770	Pull-up Torque		55.9 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		78 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		116 A
Service Factor (S.F.)		1.15	No-load Current		6.25 A	
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		0.793 Ω
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load		61°C
S.F. Amps				Temp. Rise @ S.F. Load		75°C
				Locked-rotor Power Factor		35.1
				Rotor inertia		1.38 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	74	80	84	87	82
Efficiency	87.7	92.4	92.7	92.1	91.1	89.5	91.5
Speed	1795	1788	1782	1775	1767	1758	1770
Line amperes	6.81	8.37	10.3	12.6	15.2	18	14.2

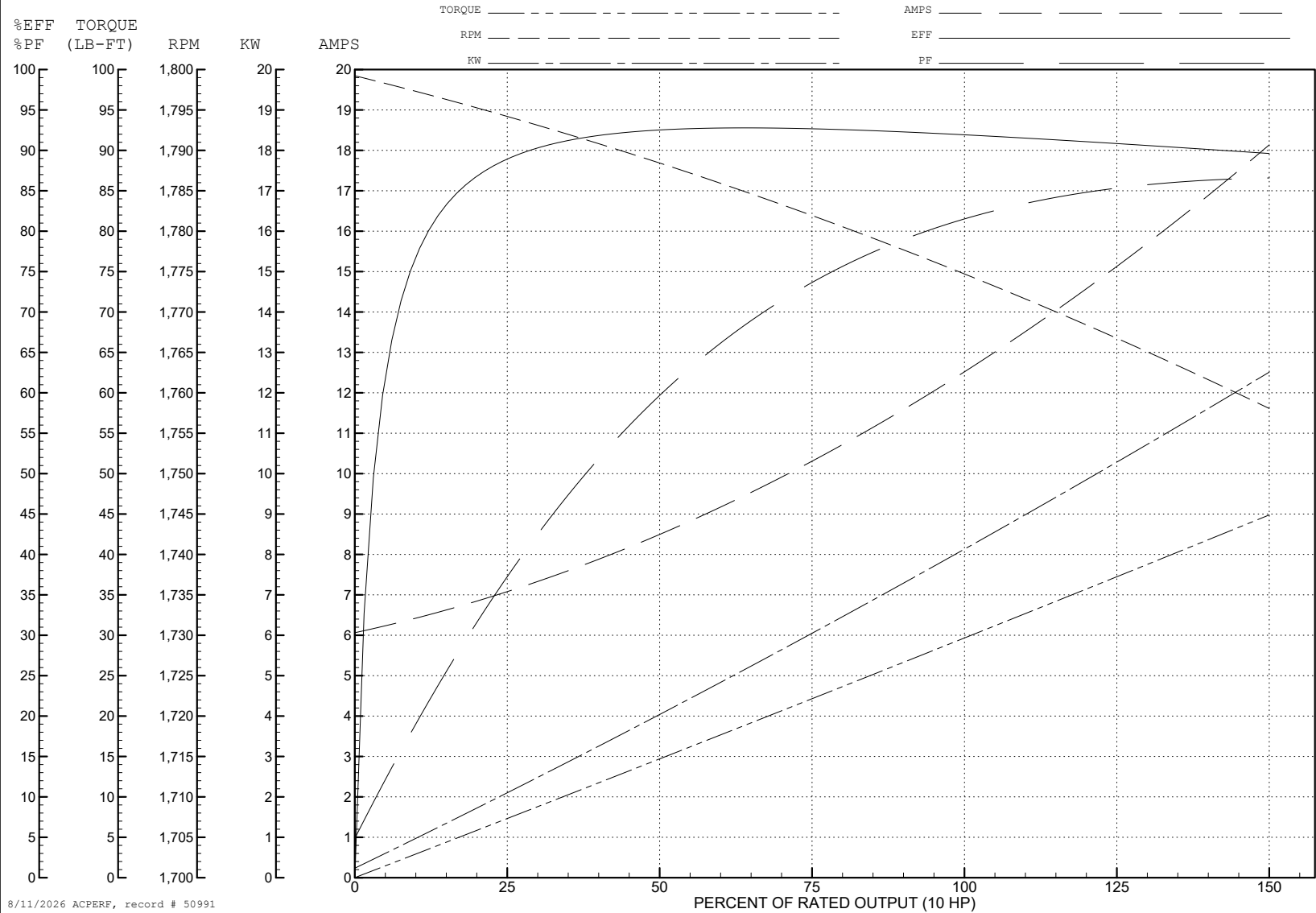
ABB Motors and Mechanical Inc.

WINDING # 37WGR366

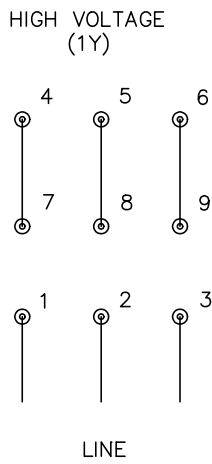
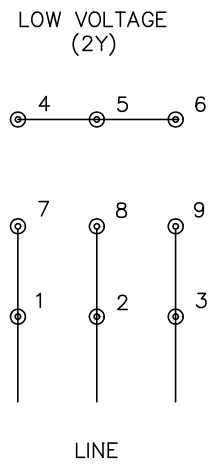
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3756M

TORQUES (LB-FT): PO=152 PU=55.9 LR=78 LRA=116



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