

ABB BALDOR RELIANCE III

Customer information packet

CEDM3714T

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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	24.800 A @ 230.0 V 27.000 A @ 208.0 V 12.400 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 Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	-
Type	AC
Mech. spec.	37N854
Base	
Status	PRD/A
Elec. spec.	37WGZ711
Layout	37LYN854
Eff. date	11-24-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-10-2025

High Voltage Full Load Amps	12.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	20.51 IN
Power Factor	85
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
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

NP3504											
CAT NO	CEDM3714T										
SPEC.	37N854Z711					ENCL	TEFC				
FRAME	215TC	HP	10								
VOLTS	230/460										
FLA	24.8/12.4			I.P.	56						
RPM	1768	RPM MAX			2700						
HZ	60	PH	3	CLASS	F						
SER.F.	1.15	DES	A	CC	010A						
NEMA-NOM-EFF	91.7										
RATING	40C AMB-CONT										
DE BRG	6307	ODE BRG			6206						
GREASE	POLYREX EM										
INV.TYPE		C HP FR		60	C HP TO	90					
CT HZ FROM	6	CT HZ TO		60	VT HZ FROM	6	VT HZ TO	60			
SER.NO	50C AT 1.0 SF										

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

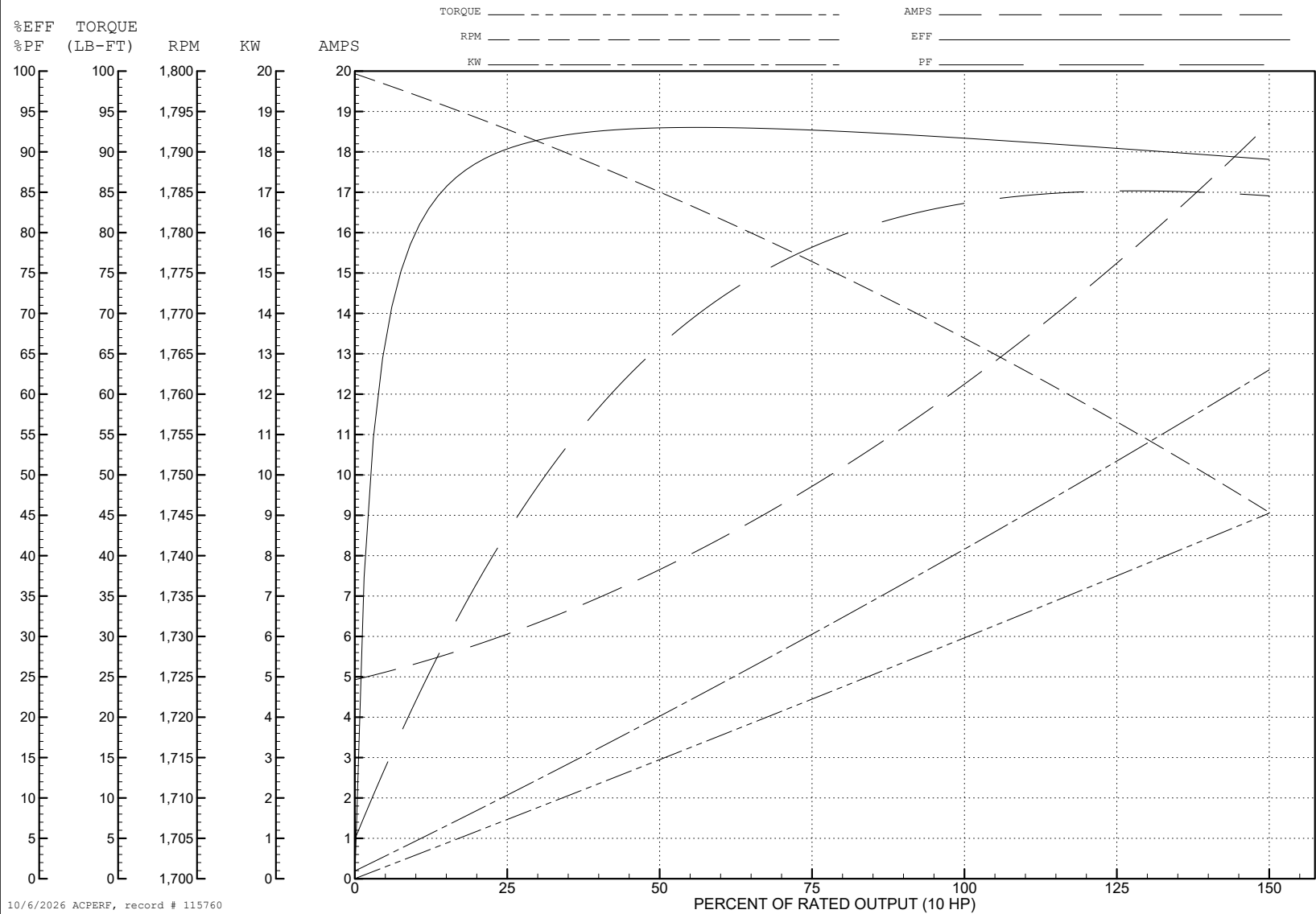
ABB Motors and Mechanical Inc.

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



10/6/2026 ACPERF, record # 115760

