

ABB BALDOR RELIANCE III

Customer information packet

EMVM3714D

7.5KW, 1768RPM, 3PH, 60HZ, D132MD, 3750M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D132MD
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	7.500 KW @ 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	CSA NEMA PREMIUM NEMA PREMIUM (OLD LOGO) UR
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	27.000 A @ 208.0 V 24.800 A @ 230.0 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
Frame Prefix	D

Part Detail

Revision	-
Type	AC
Mech. spec.	37E651
Base	
Status	PRD/A
Elec. spec.	37WGZ711
Layout	37LYE651
Eff. date	11-24-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-07-2025

Front Shaft Indicator	None
Heater Indicator	No Heater
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
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3750M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	21.22 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.497 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

NP2672L									
CAT.NO.	EMVM3714D								
SPEC.	37E651Z711								
IEC FRAME	D132MD	KW		7.5					
VOLTS	230/460								
AMP	24.8/12.4								
RPM	1768			ENCL			TEFC		
HZ	60	PH		3	CL		F		
SER.F.	1.15	DES		A	CODE		K		
NEMA-NOM-EFF	91.7	I.P.	54						
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V						N/A	
DE	6309	ODE	6206						
SER. #	SFA 28.2/14.1								

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

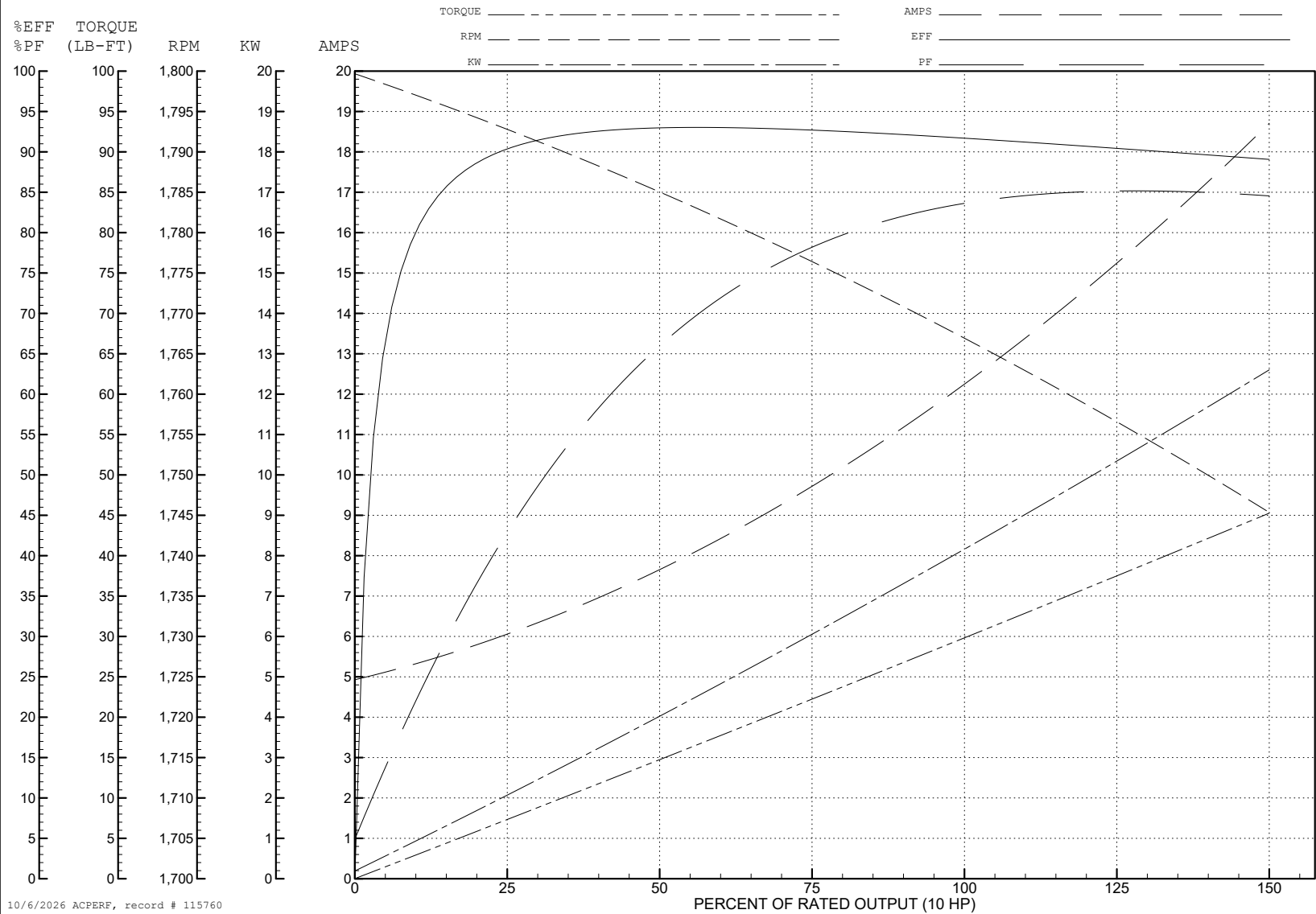
ABB Motors and Mechanical Inc.

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

