

ABB BALDOR RELIANCE III

Customer information packet

GNEM3311T

7.5HP, 1770//1460RPM, 3PH, 60//50HZ, 213T, 37

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CE UKCA WEEE CURUS IE3 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	22.800 A @ 190.0 V 9.700 A @ 460.0 V

Part Detail

Revision	Q
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGZ617
Layout	37LYF614
Eff. date	01-22-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-16-2017

20.400 A @ 208.0 V

19.400 A @ 230.0 V

11.400 A @ 380.0 V

Design Code	B
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
Heater Indicator	No Heater
High Voltage Full Load Amps	9.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm 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

NP4304L									
CAT.NO.	GNEM3311T								
SPEC.	37F614Z617G1								
HP	7.5/5.5KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	20.4-19.4/9.7//22.8/11.4								
R.P.M. (1/MIN)	1770//1460						WT.	64KG	KG
FRAME	213T		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	J	DES.	B	CLASS	F		
NOM.EFF.	91.7//89.6		% (100%)						
P.F.	80	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	OPSB	SN							
	IE3-50HZ- 91.2(75%),90.4(50%)								
	IE3-60HZ- 91.8(75%),90.4(50%)								

AC Induction Motor Performance Data

Record # 86402

Typical performance - not guaranteed values

Winding: 37WGZ617-R003		Type: 3738M	Enclosure: OPSB
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5	Full Load Torque	22.4 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	20.4-19.4/9.7//22.8/11.4	Breakdown Torque	80.42 LB-FT
R.P.M.	1770//1460	Pull-up Torque	39.23 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	47.03 LB-FT
NEMA Design Code	B KVA Code	Starting Current	73.48 A
Service Factor (S.F.)	1.15	No-load Current	4.63 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	1.33 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	34°C
S.F. Amps		Temp. Rise @ S.F. Load	42°C
		Locked-rotor Power Factor	37.1
		Rotor inertia	0.934 lb-ft ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	73	80	82	84	81
Efficiency	85.7	90.4	91.9	91.8	91.1	90.1	91.4
Speed	1793	1786	1779	1770	1762	1752	1765
Line amperes	5.07	6.26	7.81	9.69	11.71	13.92	10.9

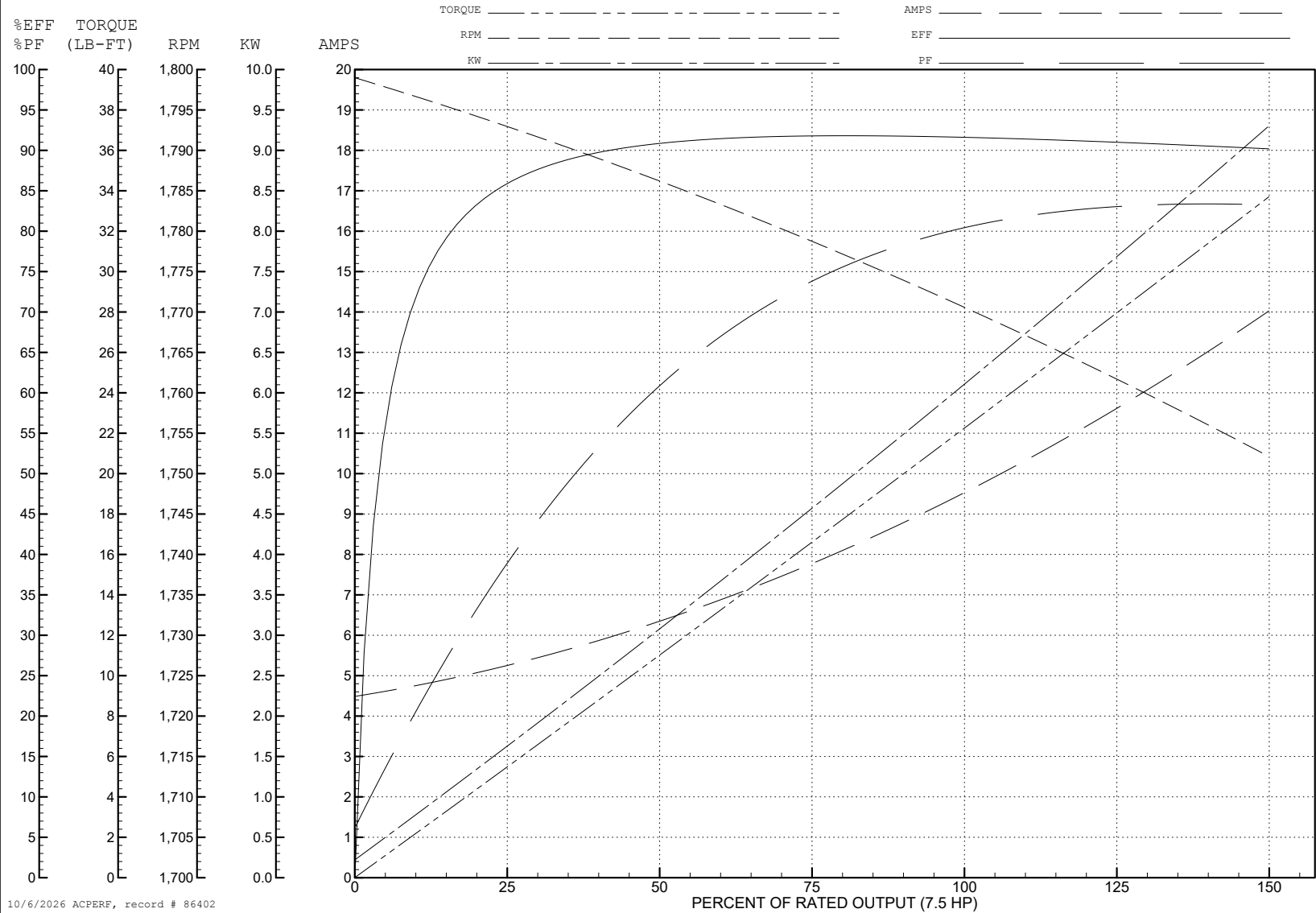
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WINDING # 37WGZ617

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3738M

TORQUES (LB-FT) : PO=80.42 PU=39.23 LR=47.03 LRA=73.48



AC Induction Motor Performance Data

Record # 86403

Typical performance - not guaranteed values

Winding: 37WGZ617-R003		Type: 3738M	Enclosure: OPSB	
Nameplate Data			380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	7.5	Full Load Torque	27.05 LB-FT	
Volts	208-230/460//190/380	Start Configuration	direct on line	
Full Load Amps	20.4-19.4/9.7//22.8/11.4	Breakdown Torque	76.52 LB-FT	
R.P.M.	1770//1460	Pull-up Torque	40.37 LB-FT	
Hz	60//50 Phase	Locked-rotor Torque	48.4 LB-FT	
NEMA Design Code	B	Starting Current	KVA Code	J
Service Factor (S.F.)	1.15	No-load Current	71.13 A	
NEMA Nom. Eff.	91.7	Line-line Res. @ 25°C	4.53 A	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	1.33 Ω	
S.F. Amps		Temp. Rise @ S.F. Load	44°C	
		Locked-rotor Power Factor	56°C	
		Rotor inertia	41.3	
			0.934 lb-ft²	

Load Characteristics 380 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	79	83	85	85	84
Efficiency	87.8	91	91.6	90.8	89.4	87.7	90
Speed	1492	1484	1475	1465	1455	1441	1459
Line amperes	5.14	6.76	8.84	11.35	14.06	17.08	13

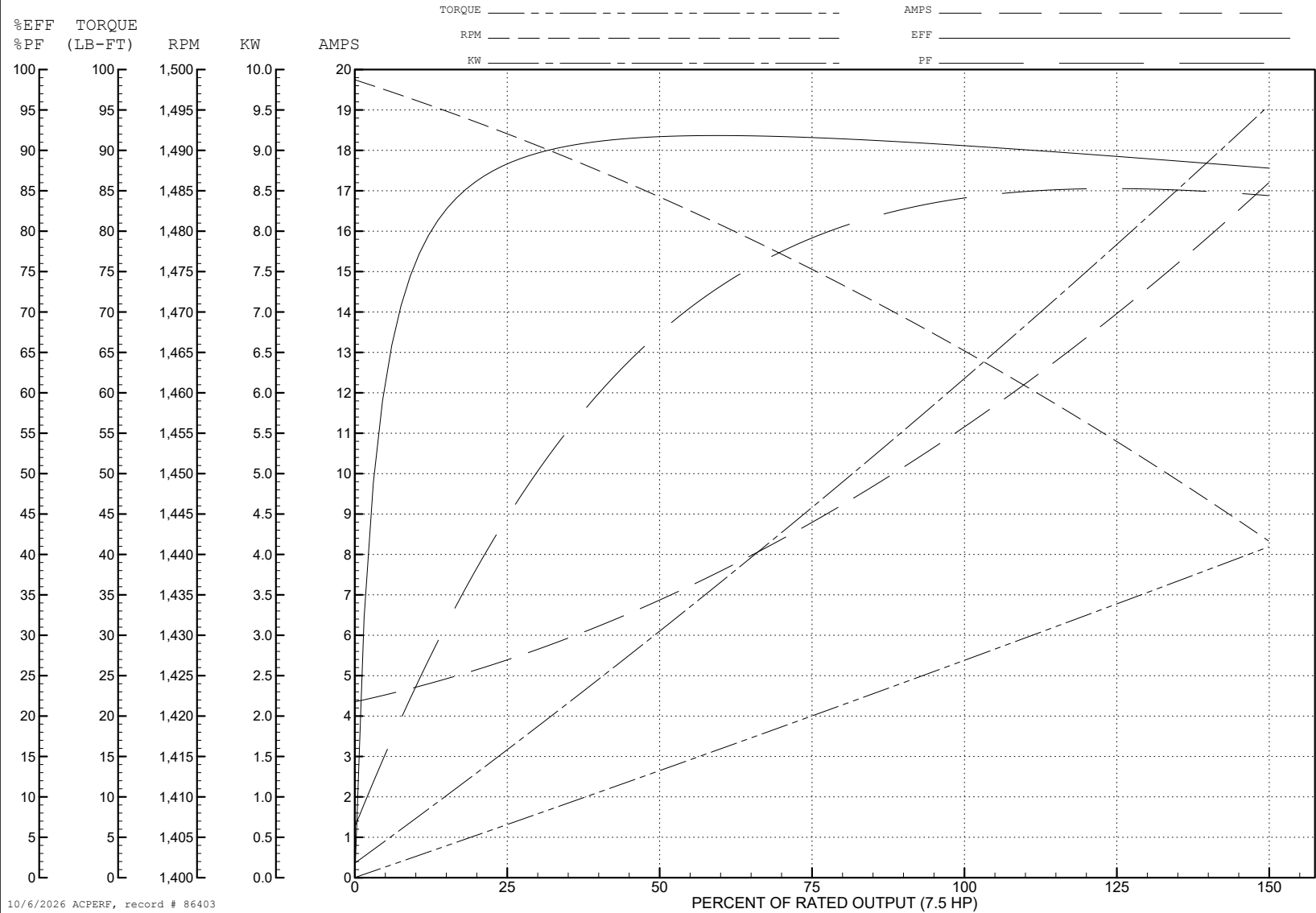
ABB Motors and Mechanical Inc.

WINDING # 37WGZ617

Typical performance - not guaranteed values.

7.5 HP 3 PH 50 HZ 1465 RPM 380 V 3738M

TORQUES (LB-FT) : PO=76.52 PU=40.37 LR=48.4 LRA=71.13



AC Induction Motor Performance Data

Record # 104158

Typical performance - not guaranteed values

Winding: 37WGZ617-R003			Type: 3738M		Enclosure: OPSB		
Nameplate Data			208 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		22.45 LB-FT		
Volts		208-230/460//190/380	Start Configuration		direct on line		
Full Load Amps		20.4-19.4/9.7//22.8/11.4	Breakdown Torque		64.9 LB-FT		
R.P.M.		1770//1460	Pull-up Torque		31.1 LB-FT		
Hz		60//50 Phase	3	Locked-rotor Torque		37.3 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		131 A
Service Factor (S.F.)		1.15	No-load Current		7.65 A		
NEMA Nom. Eff.		91.7	Power Factor	80	Line-line Res. @ 25°C		0.333 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps					Temp. Rise @ S.F. Load		45°C
					Locked-rotor Power Factor		37.1
					Rotor inertia		0.934 lb-ft²

Load Characteristics 208 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	80	84	85	86	85
Efficiency	87.2	91.1	92	91.5	90.4	89	90.8
Speed	1792	1783	1775	1764	1754	1741	1758
Line amperes	8.88	11.97	15.78	20.34	25.23	30.58	23.3

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WINDING # 37WGZ617

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1764 RPM 208 V 3738M

TORQUES (LB-FT): PO=64.9 PU=31.1 LR=37.3 LRA=131

