

ABB BALDOR RELIANCE III

Customer information packet

GNEM3305T

3HP//2.2KW, 1165//960RPM, 3PH, 60//50HZ, 213

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	3.000 HP @ 60 HZ 2.200 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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 WEEE UKCA CURUSEEV IE3 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
Current @ Voltage	9.400 A @ 208.0 V 9.400 A @ 190.0 V 9.000 A @ 230.0 V

Part Detail

Revision	C
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGR333
Layout	37LYF614
Eff. date	04-06-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	09-01-2023

	4.700 A @ 380.0 V
	4.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.32 IN
Power Factor	70
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1165 rpm
	960 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.	GNEM3305T								
SPEC.	37F614R333G2								
HP	3HP//2.2KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	9.4-9/4.5//9.4/4.7								
R.P.M. (1/MIN)	1165//960						WT.	54KG	KG
FRAME	213T		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	K	DES.	B	CLASS	F		
NOM.EFF.	88.5//84.4		% (100%)						
P.F.	70	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	OPSB	SN							
	SFA 9.4-10/5//10.6/5.3								
	IE3-50HZ-88.5(75%),88.6(50%)								
	IE3-60HZ-89.4(75%),88.4(50%)								

AC Induction Motor Performance Data

Record # 100985

Typical performance - not guaranteed values

Winding: 37WGR333-R013		Type: 3734M	Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3		Full Load Torque	13.59 LB-FT
Volts	208-230/460//190/380		Start Configuration	direct on line
Full Load Amps	9.4-9/4.5//9.4/4.7		Breakdown Torque	46.48 LB-FT
R.P.M.	1165//960		Pull-up Torque	21.64 LB-FT
Hz	60//50	Phase 3	Locked-rotor Torque	35.84 LB-FT
NEMA Design Code	B	KVA Code K	Starting Current	31.11 A
Service Factor (S.F.)	1.15		No-load Current	2.38 A
NEMA Nom. Eff.	88.5	Power Factor 70	Line-line Res. @ 25°C	3.48 Ω
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load	20°C
S.F. Amps	9.4-10/5//10.6/5.3		Temp. Rise @ S.F. Load	24°C
			Locked-rotor Power Factor	25.2
			Rotor inertia	0.846 lb-ft ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	64	71	74	76	73
Efficiency	82.9	88.4	89.4	88.9	88	86.1	88.3
Speed	1192	1185	1177	1168	1158	1147	1161
Line amperes	2.57	3.06	3.73	4.49	5.41	6.45	5.04

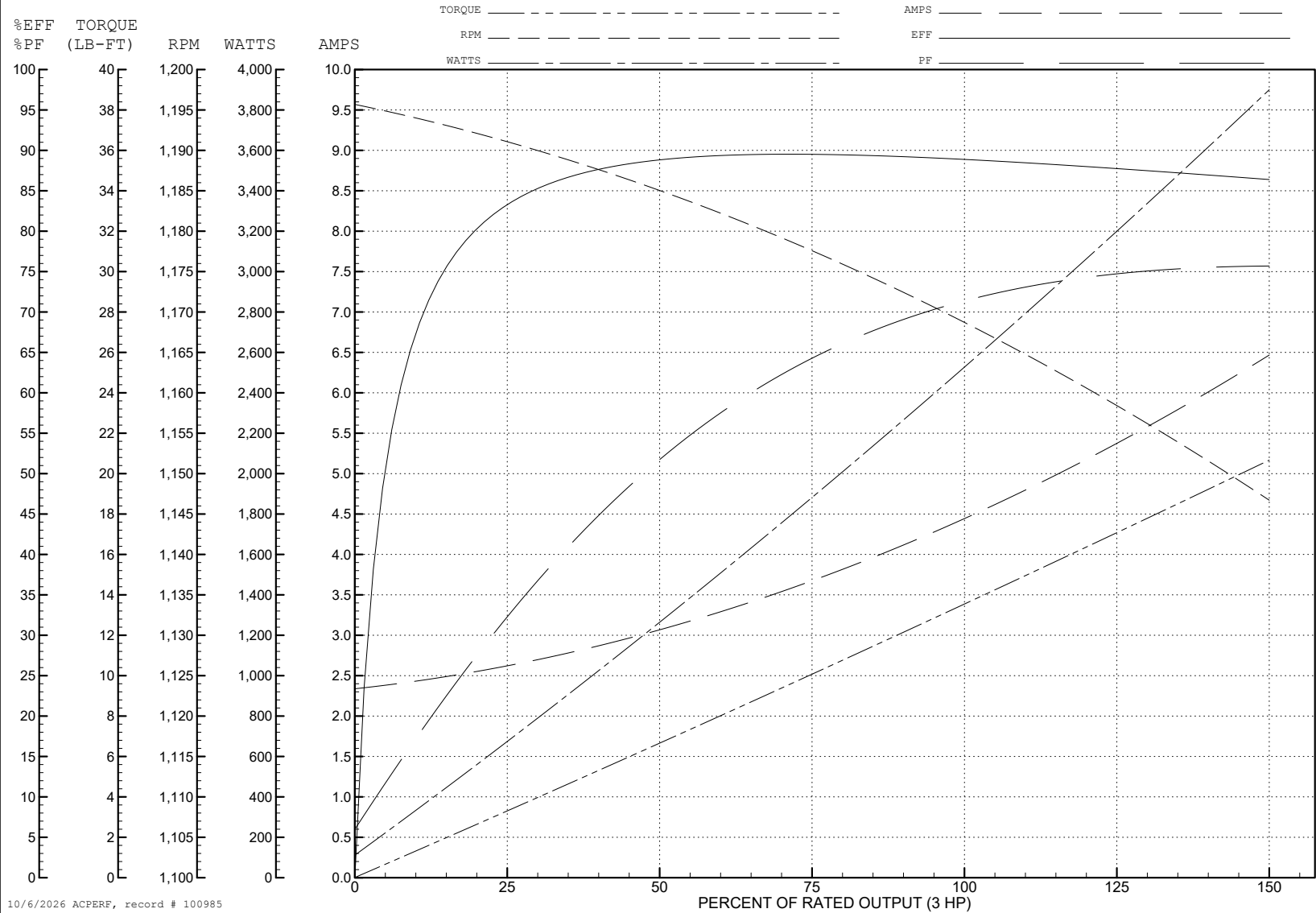
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WINDING # 37WGR333

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1168 RPM 460 V 3734M

TORQUES (LB-FT) : PO=46.48 PU=21.64 LR=35.84 LRA=31.11



AC Induction Motor Performance Data

Record # 100986

Typical performance - not guaranteed values

Winding: 37WGR333-R013		Type: 3734M	Enclosure: OPSB	
Nameplate Data			380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	3		Full Load Torque	16.55 LB-FT
Volts	208-230/460//190/380		Start Configuration	direct on line
Full Load Amps	9.4-9/4.5//9.4/4.7		Breakdown Torque	44.6 LB-FT
R.P.M.	1165//960		Pull-up Torque	23.8 LB-FT
Hz	60//50	Phase 3	Locked-rotor Torque	39.4 LB-FT
NEMA Design Code	B	KVA Code K	Starting Current	30.4 A
Service Factor (S.F.)	1.15		No-load Current	2.35 A
NEMA Nom. Eff.	88.5	Power Factor 70	Line-line Res. @ 25°C	3.48 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	27°C
S.F. Amps	9.4-10/5//10.6/5.3		Temp. Rise @ S.F. Load	35°C
			Locked-rotor Power Factor	29.2
			Rotor inertia	0.846 lb-ft ²

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	70	75	77	76	76
Efficiency	84.4	88.6	88.5	87	84.9	81.1	85.7
Speed	990	982	971	959	945	925	951
Line amperes	2.6	3.26	4.18	5.26	6.6	8.31	6.06

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WINDING # 37WGR333

Typical performance - not guaranteed values.

3 HP 3 PH 50 HZ 959 RPM 380 V 3734M

TORQUES (LB-FT) : PO=44.6 PU=23.8 LR=39.4 LRA=30.4

