

ABB BALDOR RELIANCE III

Customer information packet

GNEM31156-G

1HP//.75KW, 1170//965RPM, 3PH, 60//50HZ, 56

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	56
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	1.000 HP @ 60 HZ .750 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	4.000 A @ 190.0 V 3.600 A @ 208.0 V 3.560 A @ 230.0 V

Part Detail

Revision	D
Type	AC
Mech. spec.	35Z946
Base	
Status	PRD/A
Elec. spec.	35WGG330
Layout	35LYZ946
Eff. date	01-14-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-11-2023

	2.000 A @ 380.0 V
	1.780 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.06 IN
Power Factor	64
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	0.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1170 rpm 965 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.	GNEM31156-G								
SPEC.	35Z946G330G1								
HP	1HP//.75KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	3.6-3.56/1.78//4/2								
R.P.M. (1/MIN)	1170//965					WT.	18KG		KG
FRAME	56		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	K	DES.	B	CLASS	H		
NOM.EFF.	82.5//78.9		% (100%)						
P.F.	64	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6205		ODE	6203					
ENCL	OPSB	SN							
	SFA 4/2//4.6/2.3								
	IE3-50HZ 81.7(75%),81.0(50%)								
	IE3-60HZ 82.3(75%),80.1(50%)								

AC Induction Motor Performance Data

Record # 102723

Typical performance - not guaranteed values

Winding: 35WGG330-R015			Type: 3526M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1HP//.75KW		Full Load Torque		4.47 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		3.6-3.56/1.78//4/2		Breakdown Torque		13.2 LB-FT	
R.P.M.		1170//965		Pull-up Torque		7.9 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		9.7 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		10.2 A
Service Factor (S.F.)		1.15		No-load Current		1.19 A	
NEMA Nom. Eff.		82.5	Power Factor	64	Line-line Res. @ 25°C		19.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps		4/2//4.6/2.3		Temp. Rise @ S.F. Load		57°C	
				Locked-rotor Power Factor		50.1	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	64	70	73	68
Efficiency	70.2	80.1	82.3	82.5	81.5	79.4	81.9
Speed	1193	1187	1180	1172	1163	1153	1167
Line amperes	1.23	1.36	1.54	1.78	2.06	2.41	1.95

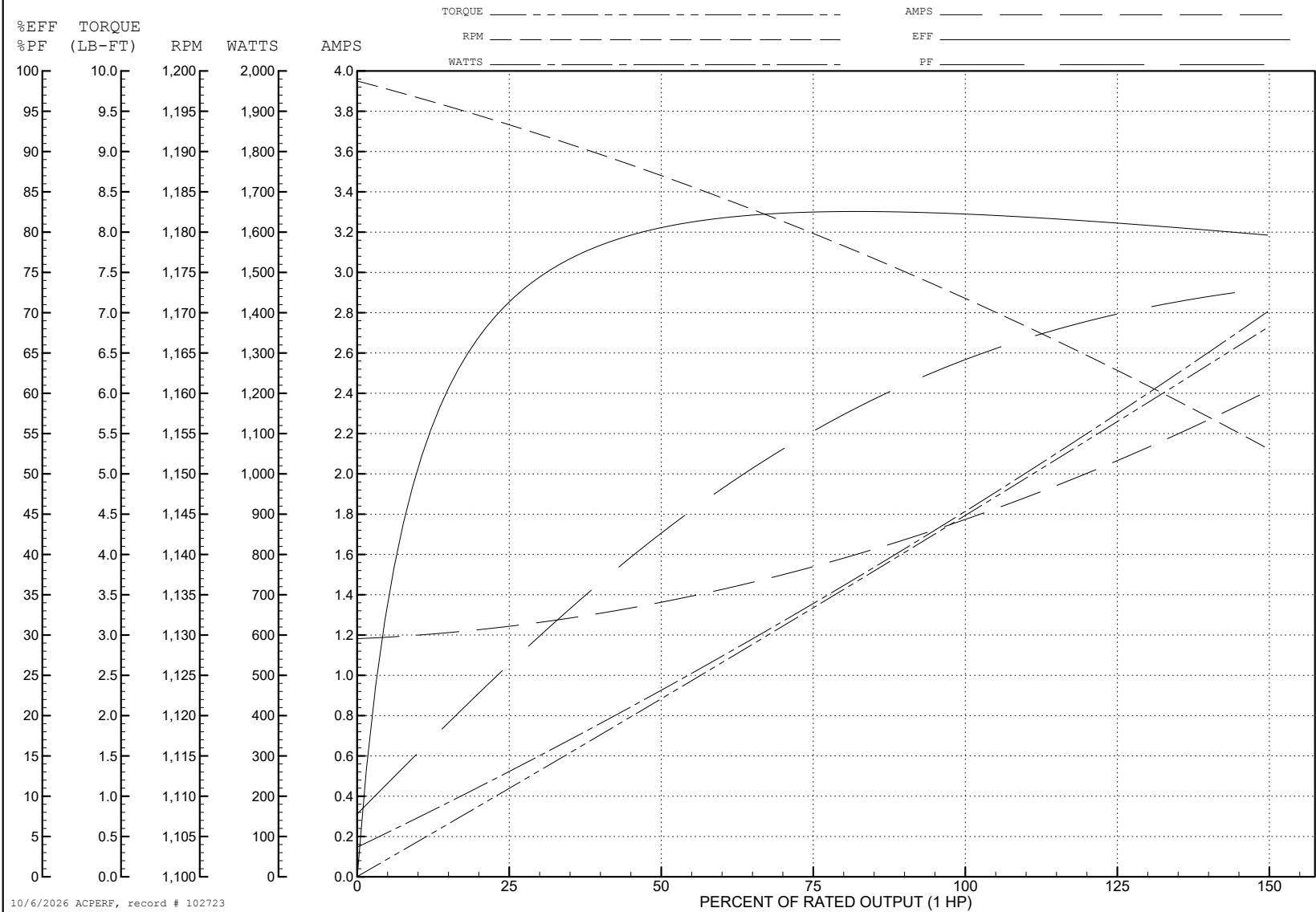
ABB Motors and Mechanical Inc.

WINDING # 35WGG330

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1172 RPM 460 V 3526M

TORQUES (LB-FT): PO=13.2 PU=7.9 LR=9.7 LRA=10.2



AC Induction Motor Performance Data

Record # 102724

Typical performance - not guaranteed values

Winding: 35WGG330-R015			Type: 3526M		Enclosure: OPSB		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		1HP//.75KW		Full Load Torque		5.42 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		3.6-3.56/1.78//4/2		Breakdown Torque		12.2 LB-FT	
R.P.M.		1170//965		Pull-up Torque		7.8 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		9.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		9.7 A
Service Factor (S.F.)		1.15		No-load Current		1.17 A	
NEMA Nom. Eff.		82.5	Power Factor	64	Line-line Res. @ 25°C		19.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C	
S.F. Amps		4/2//4.6/2.3		Temp. Rise @ S.F. Load		78°C	
				Locked-rotor Power Factor		55.4	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	50	62	70	75	77	73
Efficiency	72.9	81	81.7	80.6	78	74.1	79
Speed	992	985	976	966	954	938	959
Line amperes	1.22	1.4	1.66	2.01	2.43	2.98	2.26

ABB Motors and Mechanical Inc.

WINDING # 35WGG330

Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 966 RPM 380 V 3526M

TORQUES (LB-FT): PO=12.2 PU=7.8 LR=9.5 LRA=9.7

