

ABB BALDOR RELIANCE III

Customer information packet

GNEM31154-G

1.5/1.1KWHP, 1755//1445RPM, 3PH, 60//50HZ, 5

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	1.500 HP @ 60 HZ 1.500 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 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	5.400 A @ 190.0 V 4.600 A @ 230.0 V 4.600 A @ 208.0 V

Part Detail

Revision	E
Type	AC
Mech. spec.	35Z946
Base	
Status	PRD/A
Elec. spec.	35WGZ801
Layout	35LYZ946
Eff. date	05-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	08-24-2023

	2.700 A @ 380.0 V
	2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.06 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	0.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1445 rpm
	1755 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.	GNEM31154-G								
SPEC.	35Z946Z801G1								
HP	1.5/1.1KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	4.6/2.3//5.4/2.7								
R.P.M. (1/MIN)	1755//1445					WT.	19KG		KG
FRAME	56		HZ	60//50		I.P.	22		
SER.F.	1.15	CODE	K	DES.	B	CLASS	H		
NOM.EFF.	86.5//84.2		% (100%)						
P.F.	80	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6205		ODE	6203					
ENCL	OPSB	SN							
	SFA 5.2-5/2.5//6/3								
	IE3-50HZ-85.5(75%),83.8(50%)								
	IE3-60HZ-86.3(75%),84.1(50%)								

AC Induction Motor Performance Data

Record # 102727

Preliminary Data Sheet

Winding: 35WGZ801-R043		Type: 3528M	Enclosure: OPEN
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	4.51 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	4.6/2.3//5.4/2.7	Breakdown Torque	21.49 LB-FT
R.P.M.	1755//1445	Pull-up Torque	14.77 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	18.15 LB-FT
NEMA Design Code	B KVA Code	Starting Current	20.62 A
Service Factor (S.F.)	1.15	No-load Current	1.45 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	9.85 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	41°C
S.F. Amps	5.2-5/2.5//6/3	Temp. Rise @ S.F. Load	48°C
		Locked-rotor Power Factor	60.6
		Rotor inertia	0.188 lb-ft ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	63	72	78	82	76
Efficiency	75.2	84.1	86.3	86.7	86.2	85	86.4
Speed	1788	1777	1766	1754	1741	1727	1746
Line amperes	1.52	1.69	1.95	2.26	2.63	3.05	2.48

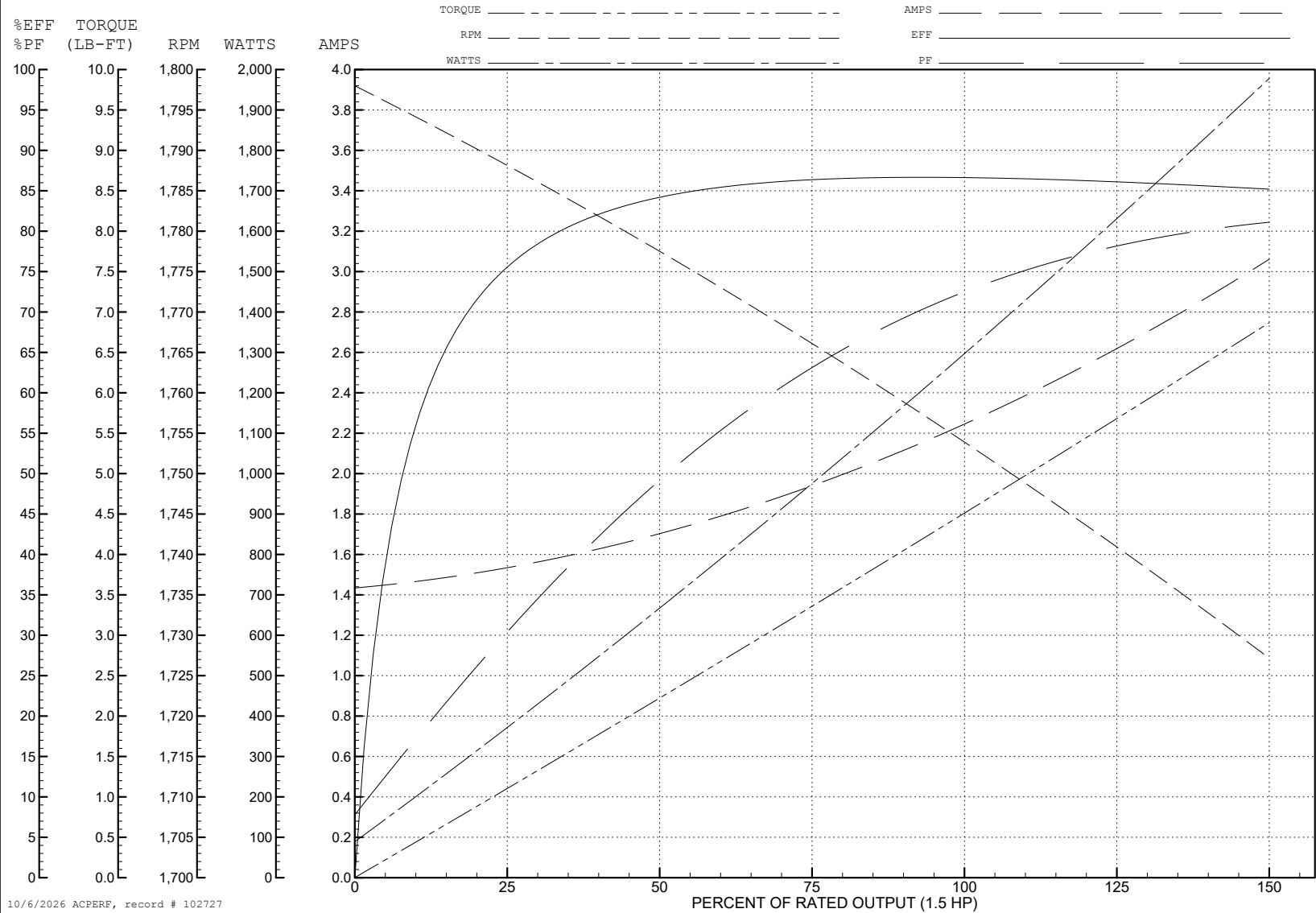
ABB Motors and Mechanical Inc.

WINDING # 35WGZ801

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1754 RPM 460 V 3528M

TORQUES (LB-FT): PO=21.49 PU=14.77 LR=18.15 LRA=20.62



AC Induction Motor Performance Data

Record # 102728

Typical performance - not guaranteed values

Winding: 35WZ801-R043		Type: 3528M	Enclosure: OPEN
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	5.45 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	4.6/2.3//5.4/2.7	Breakdown Torque	20.8 LB-FT
R.P.M.	1755//1445	Pull-up Torque	16.9 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	18.1 LB-FT
NEMA Design Code	B KVA Code	Starting Current	19 A
Service Factor (S.F.)	1.15	No-load Current	1.64 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	9.85 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	57°C
S.F. Amps	5.2-5/2.5//6/3	Temp. Rise @ S.F. Load	70°C
		Locked-rotor Power Factor	66.2
		Rotor inertia	0.188 lb-ft ²

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	67	75	81	84	79
Efficiency	76.1	83.8	85.5	85.1	83.8	81.8	84.3
Speed	1488	1475	1460	1445	1428	1409	1435
Line amperes	1.71	1.92	2.24	2.66	3.14	3.71	2.95

ABB Motors and Mechanical Inc.

WINDING # 35WGZ801

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 1445 RPM 380 V 3528M

TORQUES (LB-FT): PO=20.8 PU=16.9 LR=18.1 LRA=19

