

ABB BALDOR RELIANCE III

Customer information packet

GNEM3207T

1.5HP/1.1KW, 1170//960RPM, 3PH, 60//50HZ, 18

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	182T
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 1.100 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	5.800 A @ 190.0 V 5.100 A @ 208.0 V 5.000 A @ 230.0 V

Part Detail

Revision	B
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGS949
Layout	36LYG548
Eff. date	03-31-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-05-2023

	2.900 A @ 380.0 V
	2.500 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	2.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.00 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	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1170 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.	GNEM3207T								
SPEC.	36G548S949G3								
HP	1.5HP/1.1KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	5.1-5/2.5//5.8/2.9								
R.P.M. (1/MIN)	1170//960					WT.	31		KG
FRAME	182T		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	K	DES.	B	CLASS	F		
NOM.EFF.	86.5//81.1		% (100%)						
P.F.	64	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	OPSB	SN							
	SFA 5.8-5.6/2.8//6.4/3.2								
	IE3-50HZ-86.5(75%),85.6(50%)								
	IE3-60HZ-86.6(75%),84.3(50%)								

AC Induction Motor Performance Data

Record # 100983

Typical performance - not guaranteed values

Winding: 36WGS949-R011		Type: 3628M	Enclosure: OPSB
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	6.72 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	5.1-5/2.5//5.8/2.9	Breakdown Torque	22 LB-FT
R.P.M.	1170//960	Pull-up Torque	13.4 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	15.4 LB-FT
NEMA Design Code	B KVA Code	Starting Current	15.8 A
Service Factor (S.F.)	1.15	No-load Current	1.65 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	8.0884 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	24°C
S.F. Amps	5.8-5.6/2.8//6.4/3.2	Temp. Rise @ S.F. Load	28°C
		Locked-rotor Power Factor	36.4
		Rotor inertia	0.263 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	27	43	55	64	69	73	67
Efficiency	75.7	84.3	86.6	87	86.5	85.4	86.7
Speed	1192.8	1185.9	1178.5	1170.6	1161.7	1151.4	1165
Line amperes	1.72	1.91	2.18	2.52	2.94	3.39	2.77

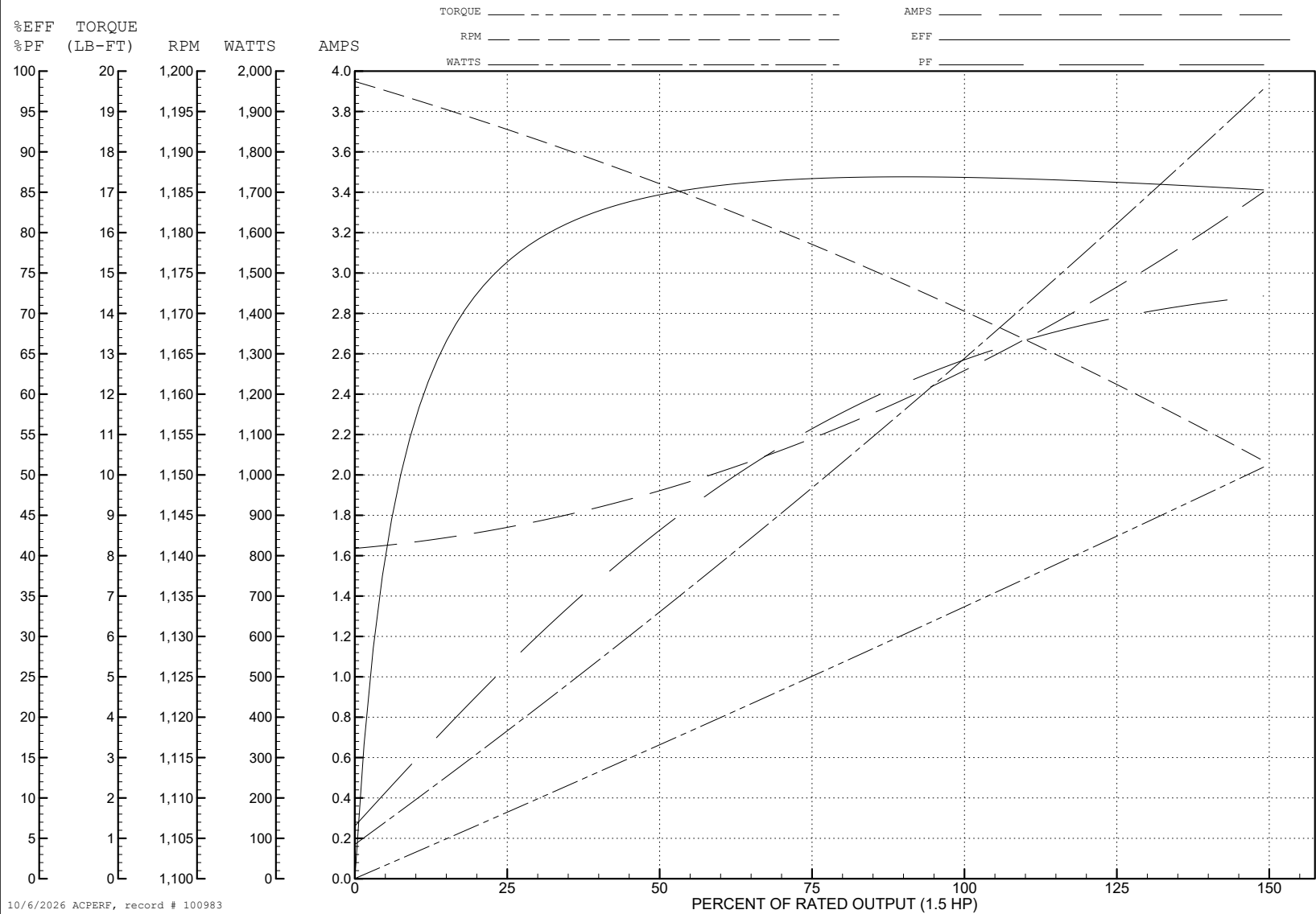
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WINDING # 36WGS949

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1170.6 RPM 460 V 3628M

TORQUES (LB-FT): PO=22 PU=13.4 LR=15.4 LRA=15.8



AC Induction Motor Performance Data

Record # 100984

Typical performance - not guaranteed values

Winding: 36WGS949-R011		Type: 3628M	Enclosure: OPSB	
Nameplate Data		380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	1.5	Full Load Torque	8.17 LB-FT	
Volts	208-230/460//190/380	Start Configuration	direct on line	
Full Load Amps	5.1-5/2.5//5.8/2.9	Breakdown Torque	21 LB-FT	
R.P.M.	1170//960	Pull-up Torque	14 LB-FT	
Hz	60//50 Phase	Locked-rotor Torque	16.1 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	15.3 A	
Service Factor (S.F.)	1.15	No-load Current	1.62 A	
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	7.82 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	30°C	
S.F. Amps	5.8-5.6/2.8//6.4/3.2	Temp. Rise @ S.F. Load	38°C	
		Locked-rotor Power Factor	36.4	
		Rotor inertia	0.263 lb-ft²	

Load Characteristics 380 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	50	62	69	73	75	71
Efficiency	78.7	85.6	86.5	85.8	83.9	81.1	84.7
Speed	992	983	974	963	951	935	956
Line amperes	1.72	1.99	2.37	2.86	3.47	4.18	3.23

ABB Motors and Mechanical Inc.

WINDING # 36WGS949

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 963 RPM 380 V 3628M

TORQUES (LB-FT): PO=21 PU=14 LR=16.1 LRA=15.3

