

ABB BALDOR RELIANCE III

Customer information packet

GNEM3607T-G

1.5HP//1.1KW, 1175//970RPM, 3PH, 60//50HZ, 1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	5.600 A @ 190.0 V 5.200 A @ 208.0 V 5.000 A @ 230.0 V

Part Detail

Revision	E
Type	AC
Mech. spec.	36M524
Base	
Status	PRD/A
Elec. spec.	36WGZ634
Layout	36LYM524
Eff. date	04-25-2025
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-12-2023

	2.800 A @ 380.0 V
	2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
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	H
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3638M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.04 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	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1175 rpm
	970 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.	GNEM3607T-G								
SPEC.	36M524Z634G1								
HP	1.5HP//1.1KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	5.2-5/2.5//5.6/2.8								
R.P.M. (1/MIN)	1175//970						WT.	90	KG
FRAME	182T		HZ	60//50			I.P.	44	
SER.F.	1.15	CODE	L	DES.	B	CLASS	H		
NOM.EFF.	87.5//81.1		% (100%)						
P.F.	64	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	TEFC	SN							
	SFA 5.8-5.4/2.7//6.4/3.2								
	IE3-50HZ 87.6(75%),86.4(50%)								
	IE3-60HZ 87.4(75%),85.5(50%)								

AC Induction Motor Performance Data

Record # 102691

Typical performance - not guaranteed values

Winding: 36WGZ634-R002			Type: 3638M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5HP//1.1KW		Full Load Torque		6.7 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		5.2-5/2.5//5.6/2.8		Breakdown Torque		27.2 LB-FT	
R.P.M.		1175//970		Pull-up Torque		14.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		19.1 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		18.8 A
Service Factor (S.F.)		1.15		No-load Current		1.65 A	
NEMA Nom. Eff.		87.5	Power Factor	64	Line-line Res. @ 25°C		6.67 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C	
S.F. Amps		5.8-5.4/2.7//6.4/3.2		Temp. Rise @ S.F. Load		31°C	
				Locked-rotor Power Factor		30.3	
				Rotor inertia		0.357 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	44	55	64	69	72	67
Efficiency	76.2	84.9	87.4	88.1	87.7	86.8	87.9
Speed	1196	1190	1184	1177	1170	1162	1173
Line amperes	1.72	1.91	2.18	2.51	2.89	3.33	2.74

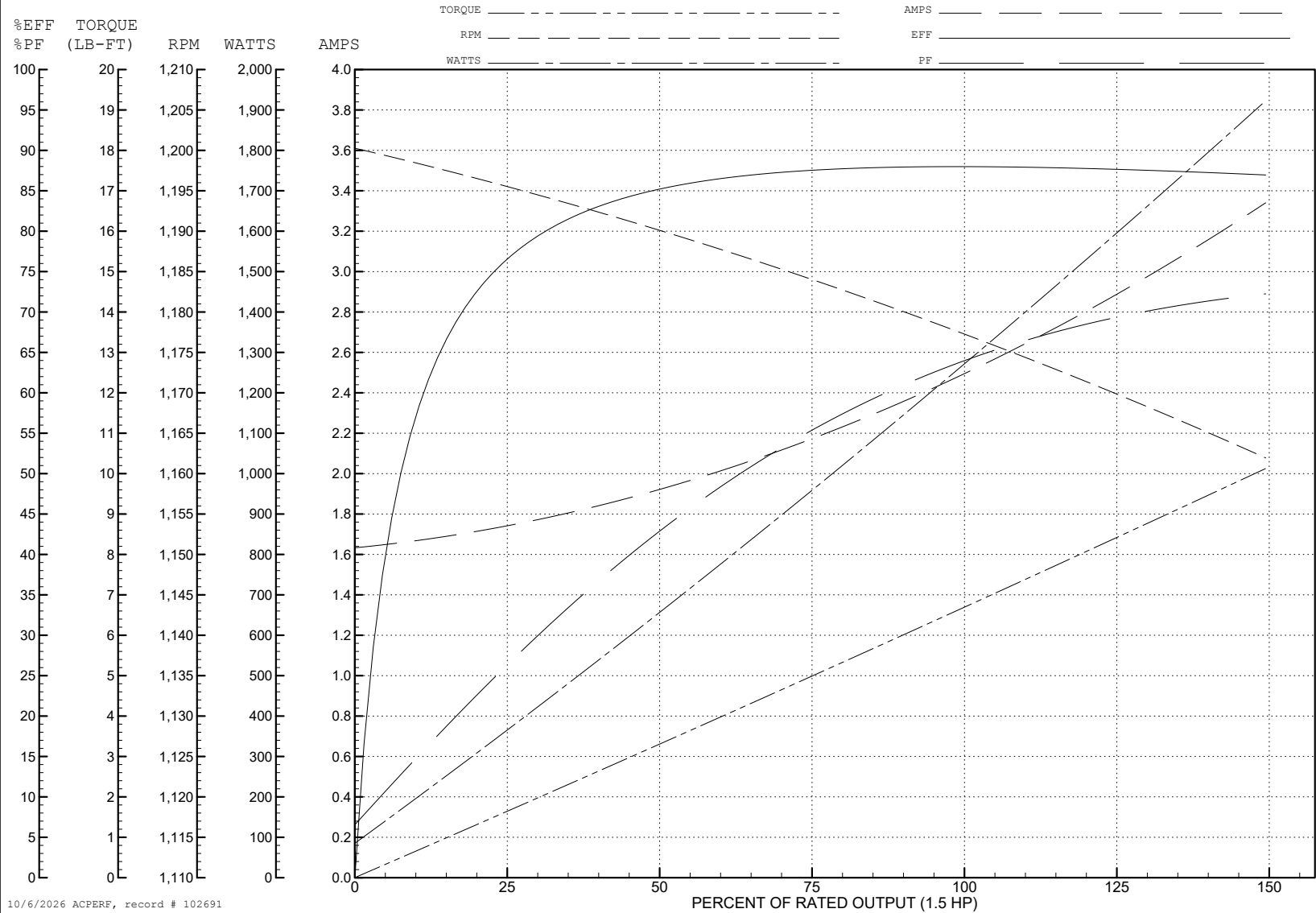
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WINDING # 36WGZ634

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1177 RPM 460 V 3638M

TORQUES (LB-FT): PO=27.2 PU=14.7 LR=19.1 LRA=18.8



AC Induction Motor Performance Data

Record # 102692

Typical performance - not guaranteed values

Winding: 36WGZ634-R002				Type: 3638M		Enclosure: TEFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		1.5HP//1.1KW		Full Load Torque		8.12 LB-FT			
Volts		208-230/460//190/380		Start Configuration		direct on line			
Full Load Amps		5.2-5/2.5//5.6/2.8		Breakdown Torque		26 LB-FT			
R.P.M.		1175//970		Pull-up Torque		15.5 LB-FT			
Hz		60//50 Phase		3		Locked-rotor Torque		20.1 LB-FT	
NEMA Design Code		B		KVA Code		L		Starting Current	18.3 A
Service Factor (S.F.)		1.15		No-load Current		1.64 A			
NEMA Nom. Eff.		87.5		Power Factor		64		Line-line Res. @ 25°C	6.67 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		33°C			
S.F. Amps		5.8-5.4/2.7//6.4/3.2		Temp. Rise @ S.F. Load		41°C			
				Locked-rotor Power Factor		34.2			
				Rotor inertia		0.357 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	61	69	73	75	67
Efficiency	79.7	86.4	87.6	87.2	85.9	83.7	87.9
Speed	994	987	979	970	960	948	1173
Line amperes	1.73	1.99	2.38	2.83	3.39	4.05	2.74

ABB Motors and Mechanical Inc.

WINDING # 36WGZ634

Typical performance - not guaranteed values.

1.5 HP 3 PH 50 HZ 970 RPM 380 V 3638M

TORQUES (LB-FT): PO=26 PU=15.5 LR=20.1 LRA=18.3

