

ABB BALDOR RELIANCE III

Customer information packet

GNEM3615T-G

5HP, 1750//1440RPM, 3PH, 60//50HZ, 184T, 3646

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
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	5.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CE CSA UR
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	7.700 A @ 380.0 V 6.600 A @ 460.0 V 15.400 A @ 190.0 V 14.000 A @ 208.0 V 13.000 A @ 230.0 V
Design Code	A

Part Detail

Revision	K
Type	AC
Mech. spec.	36M524
Base	
Status	PRD/A
Elec. spec.	36WGR014
Layout	36LYM524
Eff. date	04-25-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-26-2017

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.04 IN
Power Factor	78
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 Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1440 rpm
	1750 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

NP2716L									
CAT NO	GNEM3615T-G								
SPEC.	36M524R014G1								
HP	5/3.7KW					PH	3		
VOLTS	208-230/460//190/380								
AMP	14-13/6.6//15.4/7.7								
R.P.M. (1/MIN)	1750//1440								
FRAME	184T		HZ	60//50		I.P.	44		
SER.F.	1.15	CODE	L	DES	A	CL	H		
NOM.EFF.	90.2//88.6		% (100%)						
PF	78	IC411 46KG							
RATING	40C AMB-S1 CONT				CC	010A			
DE BRG	6206		ODE	6205					
ENCL	TEFC	SN							
BLANK	IE3-60HZ-90.4(75%)89.3(50%)								
	IE3-50HZ-89.8(75%)89.7(50%)								

AC Induction Motor Performance Data

Record # 62751

Typical performance - not guaranteed values

Winding: 36WGR014-R013		Type: 3646M	Enclosure: TEFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	18.16 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	14-13/6.6//15.4/7.7	Breakdown Torque	63.26 LB-FT
R.P.M.	1750//1440	Pull-up Torque	33.01 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	42.9 LB-FT
NEMA Design Code	A KVA Code	Starting Current	55.17 A
Service Factor (S.F.)	1.15	No-load Current	3.5 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	2.03 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	76°C
S.F. Amps		Temp. Rise @ S.F. Load	95°C
		Locked-rotor Power Factor	51.6
		Rotor inertia	0.427 LB-FT ²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	67	78	83	85	86	84
Efficiency	85.8	89.8	89.8	89.4	88	86.3	88.6
Speed	1487	1475	1463	1449	1435	1420	1441
Line amperes	3.89	4.81	6.12	7.67	9.38	11.33	8.7

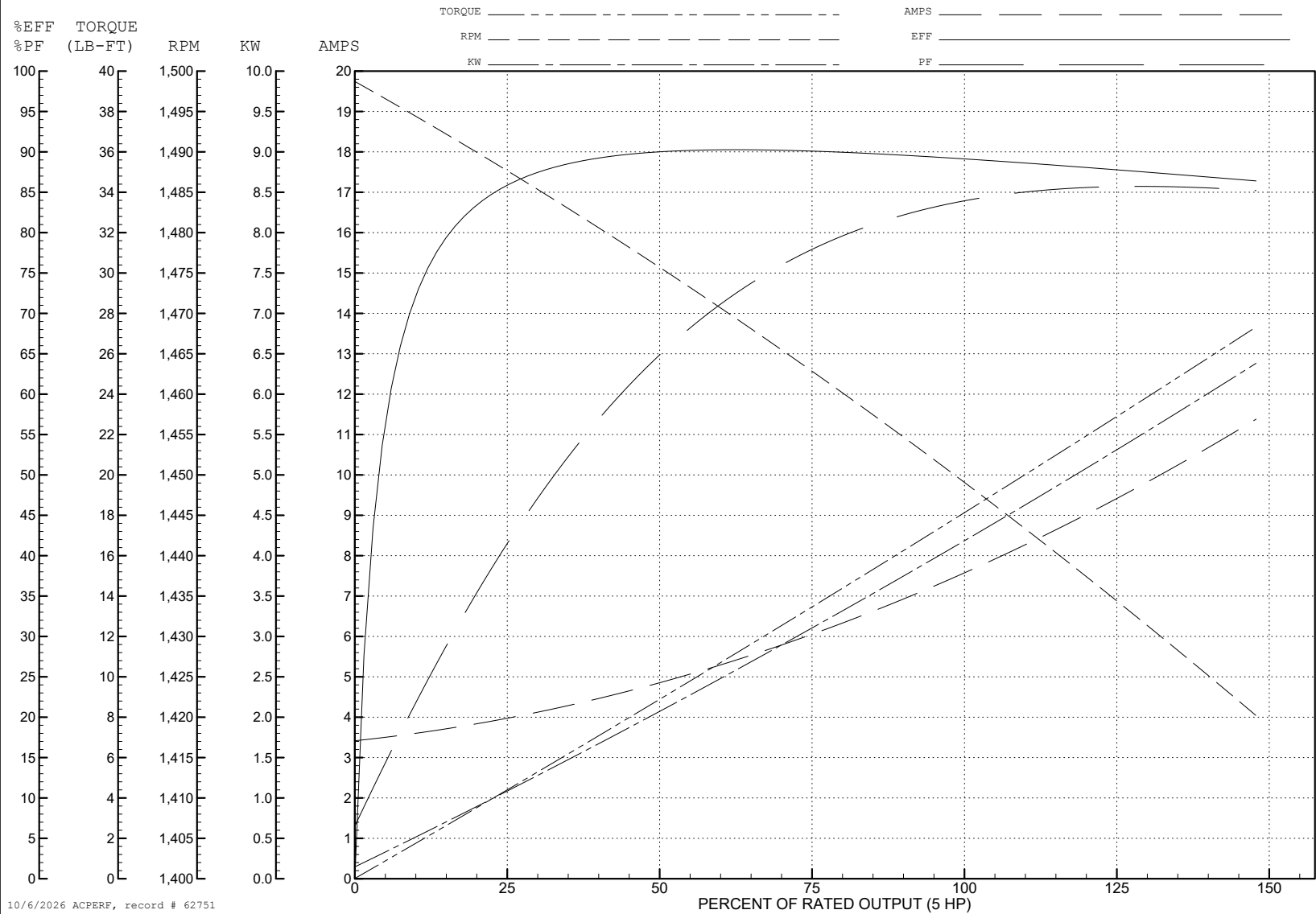
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WINDING # 36WGR014

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 1449 RPM 380 V 3646M

TORQUES (LB-FT) : PO=63.26 PU=33.01 LR=42.9 LRA=55.17



AC Induction Motor Performance Data

Record # 62752

Typical performance - not guaranteed values

Winding: 36WGR014-R013		Type: 3646M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	15 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	14-13/6.6//15.4/7.7	Breakdown Torque	67.5 LB-FT
R.P.M.	1750//1440	Pull-up Torque	32.7 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	42.5 LB-FT
NEMA Design Code	A KVA Code	Starting Current	58.2 A
Service Factor (S.F.)	1.15	No-load Current	3.55 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	2.03 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	59°C
S.F. Amps		Temp. Rise @ S.F. Load	70°C
		Locked-rotor Power Factor	51.6
		Rotor inertia	0.427 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	59	71	78	82	83	80
Efficiency	84.4	89.5	90.4	90.7	90	89	90.3
Speed	1788	1778	1768	1756	1745	1733	1749
Line amperes	3.84	4.51	5.47	6.63	7.89	9.34	7.39

ABB Motors and Mechanical Inc.

WINDING # 36WGR014

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1756 RPM 460 V 3646M

TORQUES (LB-FT): PO=67.5 PU=32.7 LR=42.5 LRA=58.2

