

ABB BALDOR RELIANCE III

Customer information packet

GNEM3614T

2HP//1.5KW, 1175//970RPM, 3PH, 60//50HZ, 184

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	2.000 HP @ 60 HZ 1.500 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	7.600 A @ 190.0 V 6.800 A @ 208.0 V 6.600 A @ 230.0 V

Part Detail

Revision	B
Type	AC
Mech. spec.	36Q570
Base	
Status	PRD/A
Elec. spec.	36WGR900
Layout	36LYQ570
Eff. date	04-02-2026
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-12-2023

	3.800 A @ 380.0 V
	3.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
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	3646M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.05 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	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.	GNEM3614T								
SPEC.	36Q570R900G1								
HP	2HP//1.5KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	6.8-6.6/3.3//7.6/3.8								
R.P.M. (1/MIN)	1175//970						WT.	46KG	KG
FRAME	184T	HZ		60//50		I.P.		44	
SER.F.	1.15	CODE	L	DES.	B	CLASS	F		
NOM.EFF.	88.5//82.5		% (100%)						
P.F.	64	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	TEFC	SN							
	SFA 7.6-7.2/3.6//8.4/4.2								
	IE3-50HZ 88.3(75%),87.3(50%)								
	IE3-60HZ 88.2(75%),86.1(50%)								

AC Induction Motor Performance Data

Record # 101009

Typical performance - not guaranteed values

Winding: 36WGR900-R016		Type: 3646M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	8.92 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	6.8-6.6/3.3//7.6/3.8	Breakdown Torque	36.4 LB-FT
R.P.M.	1175//970	Pull-up Torque	19.5 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	25.4 LB-FT
NEMA Design Code	B KVA Code	Starting Current	25 A
Service Factor (S.F.)	1.15	No-load Current	2.19 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	4.66 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	34°C
S.F. Amps	7.6-7.2/3.6//8.4/4.2	Temp. Rise @ S.F. Load	40°C
		Locked-rotor Power Factor	29.2
		Rotor inertia	0.432 lb-ft ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	43	55	64	69	72	67
Efficiency	77.9	86.1	88.2	88.8	88.5	87.5	88.6
Speed	1196	1190	1184	1177	1170	1162	1173
Line amperes	2.28	2.53	2.89	3.32	3.83	4.42	3.63

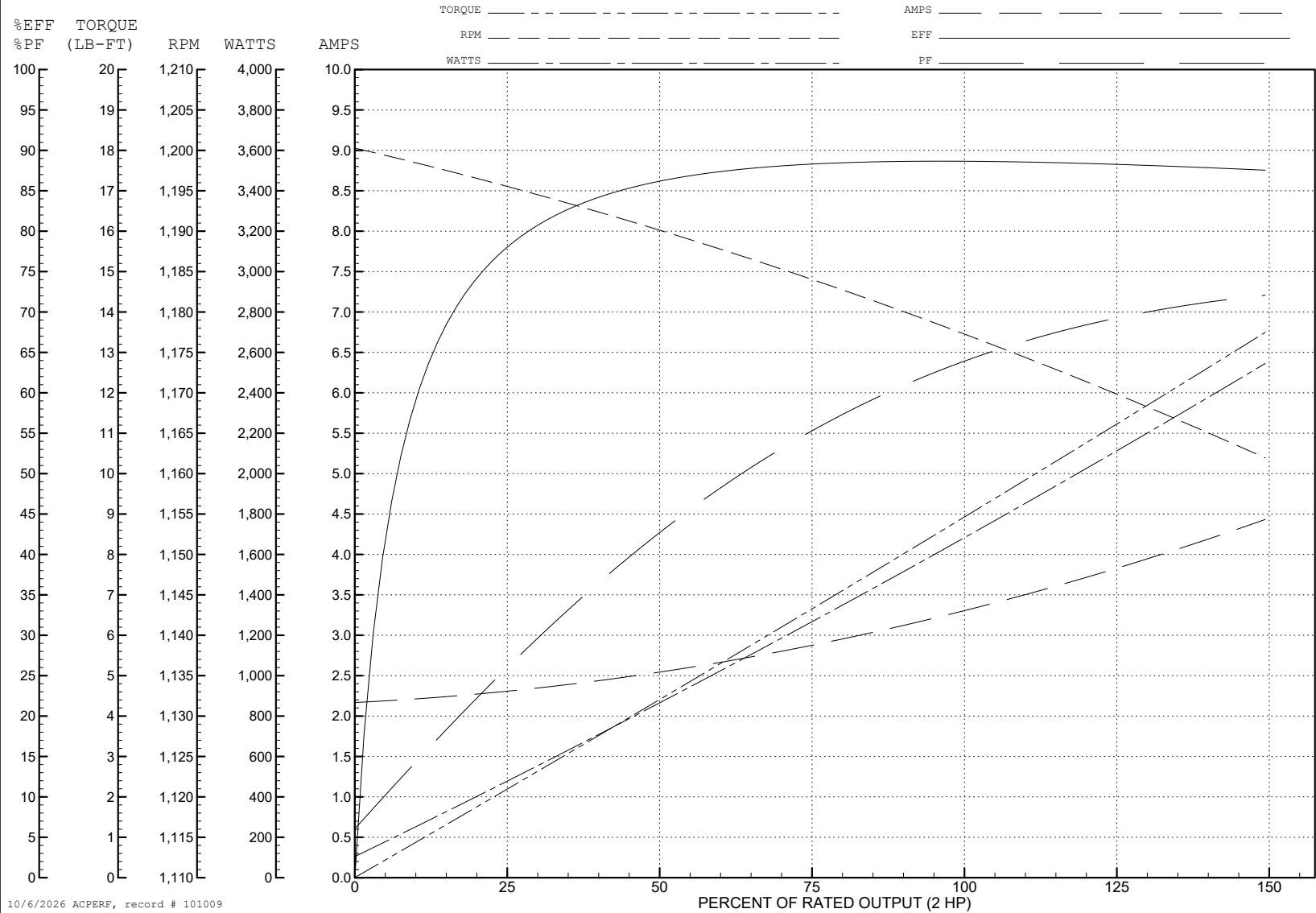
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WINDING # 36WGR900

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1177 RPM 460 V 3646M

TORQUES (LB-FT): PO=36.4 PU=19.5 LR=25.4 LRA=25



AC Induction Motor Performance Data

Record # 101010

Typical performance - not guaranteed values

Winding: 36WGR900-R016		Type: 3646M	Enclosure: TEFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	10.81 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	6.8-6.6/3.3//7.6/3.8	Breakdown Torque	34.9 LB-FT
R.P.M.	1175//970	Pull-up Torque	20.5 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	26.7 LB-FT
NEMA Design Code	B KVA Code	Starting Current	24.4 A
Service Factor (S.F.)	1.15	No-load Current	2.17 A
NEMA Nom. Eff.	88.5 Power Factor	Line-line Res. @ 25°C	4.66 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	42°C
S.F. Amps	7.6-7.2/3.6//8.4/4.2	Temp. Rise @ S.F. Load	52°C
		Locked-rotor Power Factor	33
		Rotor inertia	0.432 LB-FT ²

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	61	69	73	75	71
Efficiency	80.9	87.3	88.3	87.9	86.6	84.4	87.1
Speed	994	987	979	970	960	948	964
Line amperes	2.29	2.64	3.15	3.75	4.49	5.37	4.19

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WINDING # 36WGR900

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 970 RPM 380 V 3646M

TORQUES (LB-FT): PO=34.9 PU=20.5 LR=26.7 LRA=24.4

