

ABB BALDOR RELIANCE III

Customer information packet

GNEM3218T-G

5HP, 1750//1450RPM, 3PH, 60//50HZ, 184T, 3644

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	7.900 A @ 380.0 V 6.800 A @ 460.0 V 15.800 A @ 190.0 V 14.200 A @ 208.0 V 13.600 A @ 230.0 V
Design Code	A

Part Detail

Revision	N
Type	AC
Mech. spec.	36M526
Base	
Status	PRD/A
Elec. spec.	36WGN116
Layout	36LYM526
Eff. date	03-13-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-24-2017

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	6.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
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	3644M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.50 IN
Power Factor	77
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	1450 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

NP4304L									
CAT.NO.	GNEM3218T-G								
SPEC.	36M526N116G1								
HP	5/3.7KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	14.2/13.6/6.8//15.8/7.9								
R.P.M. (1/MIN)	1750//1450					WT.	45KG		KG
FRAME	184T		HZ	60//50		I.P.	22		
SER.F.	1.15	CODE	K	DES.	A	CLASS	H		
NOM.EFF.	90.2//88.6		% (100%)						
P.F.	77	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6206		ODE	6205					
ENCL	OPSB	SN							
IE3-50HZ 89.3(75%),89.2(50%)									
IE3-60HZ 89.8(75%),89.0(50%)									

AC Induction Motor Performance Data

Record # 62578

Preliminary Data Sheet

Winding: 35WGM121-R001			Type: 3514M		Enclosure: TENV	
Nameplate Data			145 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.25	Full Load Torque		0.74 LB-FT	
Volts		145	Start Configuration		direct on line	
Full Load Amps		2.3	Breakdown Torque		7.98 LB-FT	
R.P.M.		1800	Pull-up Torque		4.55 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		5.36 LB-FT	
NEMA Design Code		-	Starting Current		22.02 A	
Service Factor (S.F.)		1	No-load Current		1.98 A	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		
				Locked-rotor Power Factor		66.5
				Rotor inertia		0.0831 LB-FT2

Load Characteristics 145 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	23	32	40	48	55	60
Efficiency	40.3	56.6	65.5	70.8	74.2	76.2
Speed	1793	1788	1785	1780	1775	1770
Line amperes	2.01	2.05	2.12	2.2	2.3	2.43

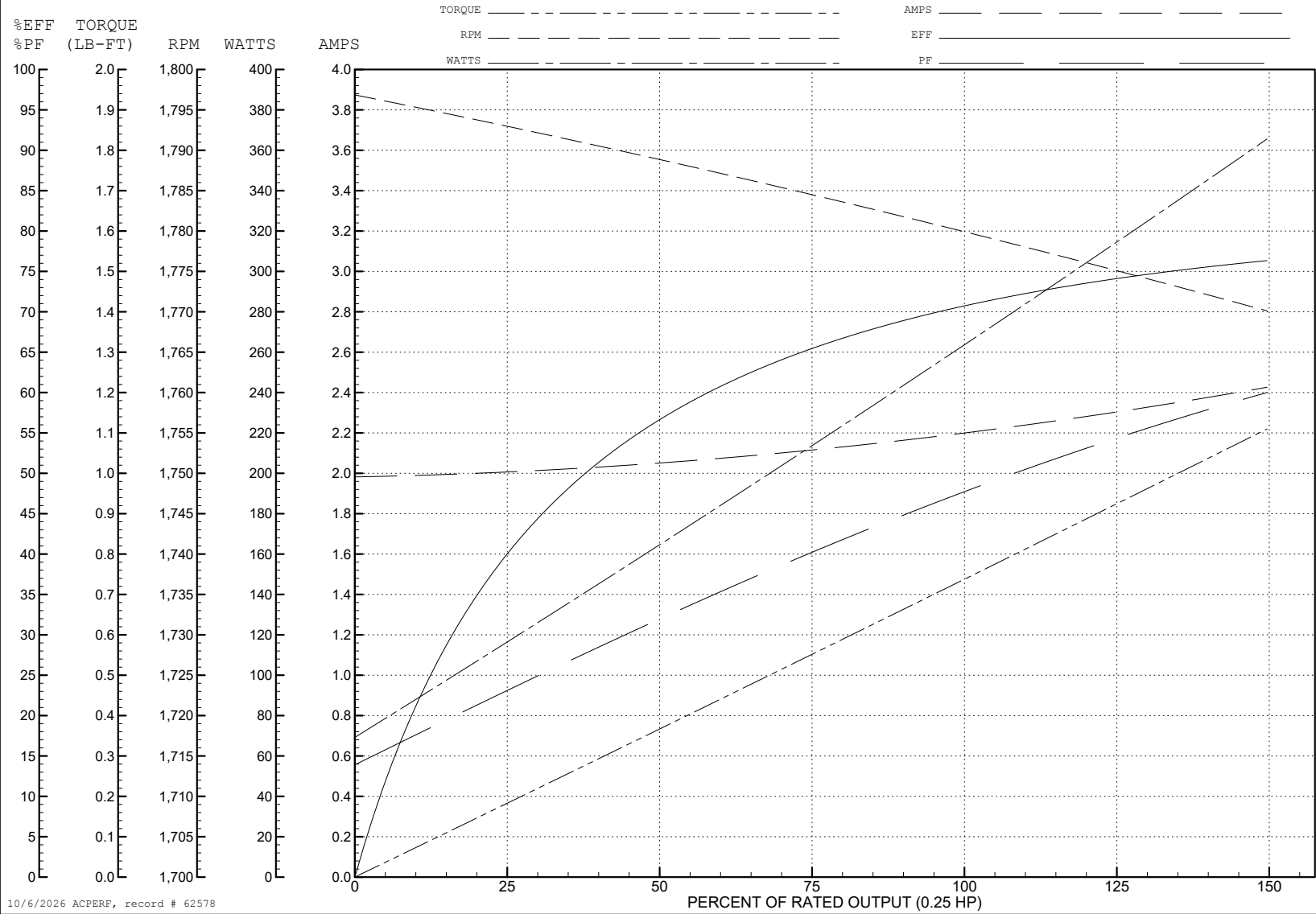
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WINDING # 35WGM121

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1800 RPM 145 V 3514M

TORQUES (LB-FT) : PO=7.98 PU=4.55 LR=5.36 LRA=22.02



AC Induction Motor Performance Data

Record # 62759

Typical performance - not guaranteed values

Winding: 36WGN116-R003		Type: 3644M	Enclosure: OPSB
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	18.2 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	14.2/13.6/6.8//15.8/7.9	Breakdown Torque	49.05 LB-FT
R.P.M.	1750//1450	Pull-up Torque	30.01 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	35.43 LB-FT
NEMA Design Code	A KVA Code	Starting Current	49.46 A
Service Factor (S.F.)	1.15	No-load Current	3.31 A
NEMA Nom. Eff.	90.2 Power Factor	Line-line Res. @ 25°C	2.13 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	53°C
S.F. Amps		Temp. Rise @ S.F. Load	67°C
		Locked-rotor Power Factor	44
		Rotor inertia	0.41 LB-FT ²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	66	77	81	84	85	83
Efficiency	85.8	89.6	89.6	88.9	87	84.5	87.8
Speed	1489	1478	1465	1451	1436	1417	1442
Line amperes	3.76	4.78	6.2	7.89	9.76	11.88	9.01

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WINDING # 36WGN116

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 1451 RPM 380 V 3644M

TORQUES (LB-FT) : PO=49.05 PU=30.01 LR=35.43 LRA=49.46

