



Customer information packet

GNEM3218T

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 @ 60 HZ 5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	WEEE UKCA IE3 CURUS CE C UR US
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

Part detail

Revision	M
Type	AC
Mech. spec.	36G548
Base	
Status	PRD/A
Elec. spec.	36WGN116
Layout	36LYG548
Eff. date	05-09-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-15-2017

	13.600 A @ 230.0 V
Design Code	A
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	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	No 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								
SPEC.	36G548N116G1								
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.	44KG		KG
FRAME	184T		HZ	60//50			I.P.	22	
SER.F.	1.15	CODE	K	DES.	A	CLASS	F		
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 # 62315

Typical performance - not guaranteed values

Winding: 36WGN116-R001			Type: 3644M		Enclosure: OPSB			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		5	Full Load Torque		15.02 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		51.72 LB-FT			
R.P.M.		1750//1450	Pull-up Torque		29.43 LB-FT			
Hz		60//50	Phase	3	Locked-rotor Torque		34.74 LB-FT	
NEMA Design Code		A	KVA Code		K	Starting Current		51.23 A
Service Factor (S.F.)			1.15		No-load Current		3.38 A	
NEMA Nom. Eff.		90.2	Power Factor		77	Line-line Res. @ 25°C		2.13 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C		
S.F. Amps				Temp. Rise @ S.F. Load		50°C		
				Locked-rotor Power Factor		39.6		
				Rotor inertia		0.41 LB-FT2		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	71	77	81	83	79
Efficiency	83.8	89	90	90.2	89.1	87.4	89.5
Speed	1790	1781	1771	1759	1747	1732	1752
Line amperes	3.72	4.47	5.51	6.78	8.14	9.67	7.6

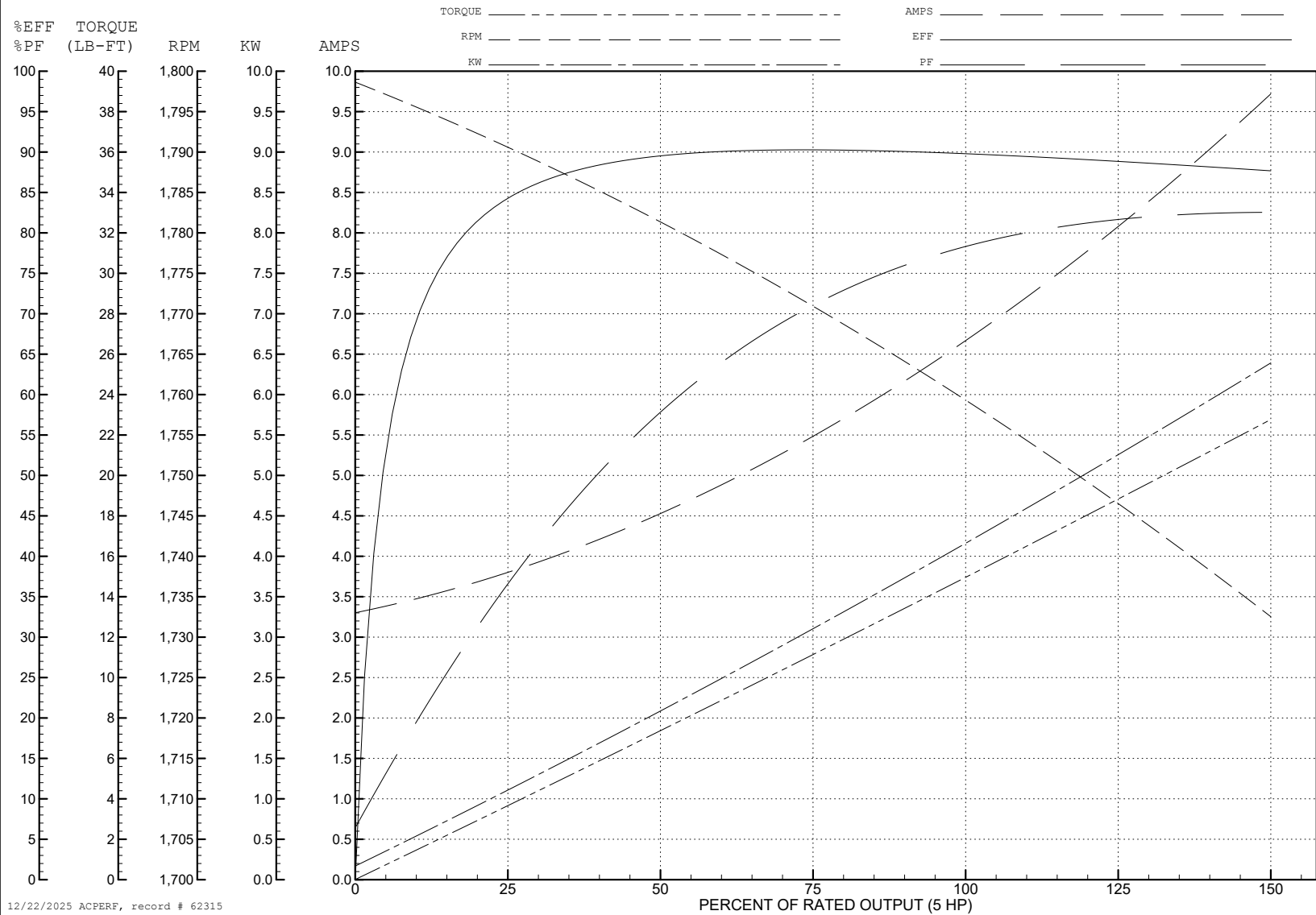
ABB Motors and Mechanical Inc.

WINDING # 36WGN116

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1759 RPM 460 V 3644M

TORQUES (LB-FT) : PO=51.72 PU=29.43 LR=34.74 LRA=51.23



AC Induction Motor Performance Data

Record # 62316

Typical performance - not guaranteed values

Winding: 36WGN116-R001		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-FT2	

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

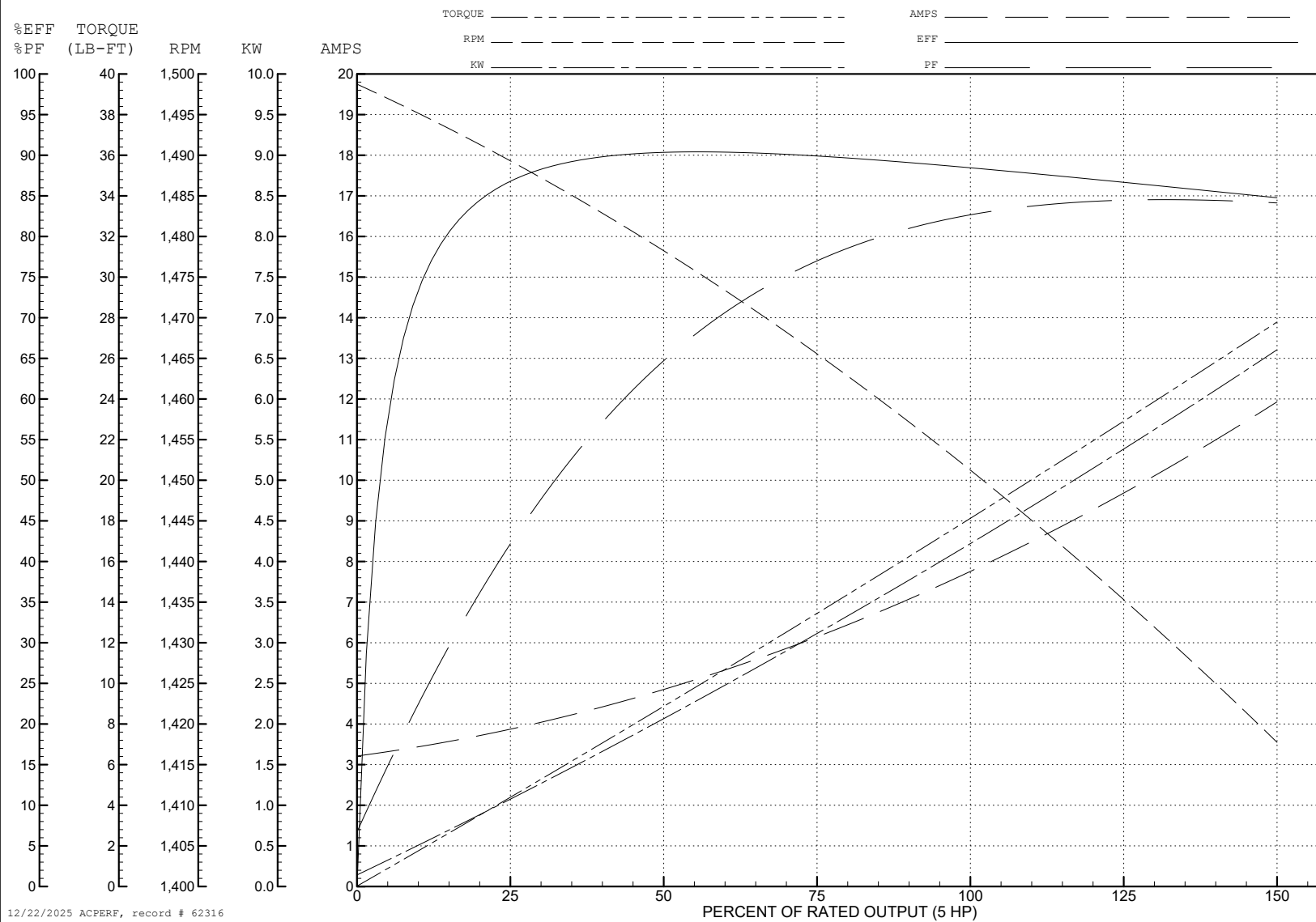
ABB Motors and Mechanical Inc.

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



AC Induction Motor Performance Data

Record # 104157

Typical performance - not guaranteed values

Winding: 36WGN116-R001		Type: 3644M	Enclosure: OPSB	
Nameplate Data		208 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)	5	Full Load Torque	15.09 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	41.6 LB-FT	
R.P.M.	1750//1450	Pull-up Torque	23.2 LB-FT	
Hz	60//50	Phase	3	
NEMA Design Code	A	KVA Code	K	
Service Factor (S.F.)	1.15	Starting Current	90.7 A	
NEMA Nom. Eff.	90.2	Power Factor	77	
Rating - Duty	40C	AMB-CONT		
S.F. Amps				

Load Characteristics 208 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	78	82	85	85	84
Efficiency	85.9	89.9	90.2	89.9	88.4	86.2	89
Speed	1788	1777	1765	1751	1735	1717	1741
Line amperes	6.48	8.42	11.03	14.11	17.42	21.18	16.1

ABB Motors and Mechanical Inc.

WINDING # 36WGN116

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1751 RPM 208 V 3644M

TORQUES (LB-FT): PO=41.6 PU=23.2 LR=27.4 LRA=90.7

