

ABB BALDOR RELIANCE III

Customer information packet

GNEM2513T-CI

15HP//11KW, 1775//1470 1/MINRPM, 3PH, 60//5

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	254T
Frame Material	Iron
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	15.000 HP @ 60 HZ 11.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 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	WEEE UKCA NEMA PREMIUM (OLD LOGO) NEMA PREMIUM IE3 CURUSEEV CE
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	46.000 A @ 190.0 V 40.000 A @ 230.0 V

Part Detail

Revision	G
Type	AC
Mech. spec.	09D01
Base	
Status	PRD/A
Elec. spec.	09WGT627
Layout	09LYD001
Eff. date	12-20-2024
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	04-12-2023

	40.000 A @ 208.0 V
	23.000 A @ 380.0 V
	20.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	20.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.38 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	1.625 IN

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1475 rpm 1780 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.	GNEM2513T-CI								
SPEC.	09D001T627G1								
HP	15HP/11KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	40/20//46/23								
R.P.M. (1/MIN)	1780//1475					WT.	130KG		KG
FRAME	254T		HZ	60//50		I.P.	23		
SER.F.	1.15	CODE	L	DES.	A	CLASS	F		
NOM.EFF.	93//91.5		% (100%)						
P.F.	77	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6309		ODE	6208					
ENCL	OPEN	SN							
	IE3-60HZ-93.3(75%),92.1(50%)								
	IE3 50HZ 93.1(75%),92.6(50%)								
	SFA 46-44/22//48/24								

AC Induction Motor Performance Data

Record # 102336

Typical performance - not guaranteed values

Winding: 09WGT627-R001			Type: 0948M		Enclosure: OPEN			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15HP//11KW		Full Load Torque		44.59 LB-FT		
Volts		208-230/460//190/380		Start Configuration		direct on line		
Full Load Amps		40/20//46/23		Breakdown Torque		179 LB-FT		
R.P.M.		1780//1475		Pull-up Torque		95.7 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		99.8 LB-FT	
NEMA Design Code		A	KVA Code		L	Starting Current		174 A
Service Factor (S.F.)				1.15	No-load Current		10.8 A	
NEMA Nom. Eff.		93	Power Factor		77	Line-line Res. @ 25°C		0.44173 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C		
S.F. Amps		46-44/22//48/24		Temp. Rise @ S.F. Load		33°C		
				Locked-rotor Power Factor		33.4		
				Rotor inertia		2.1 lb-ft²		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	57	70	77	81	84	79
Efficiency	87.3	92.1	93.3	93.5	93.4	92.9	93.4
Speed	1794.8	1789.2	1784.2	1778.8	1773.4	1767.4	1776
Line amperes	11.6	13.6	16.3	19.6	23.2	27.1	21.8

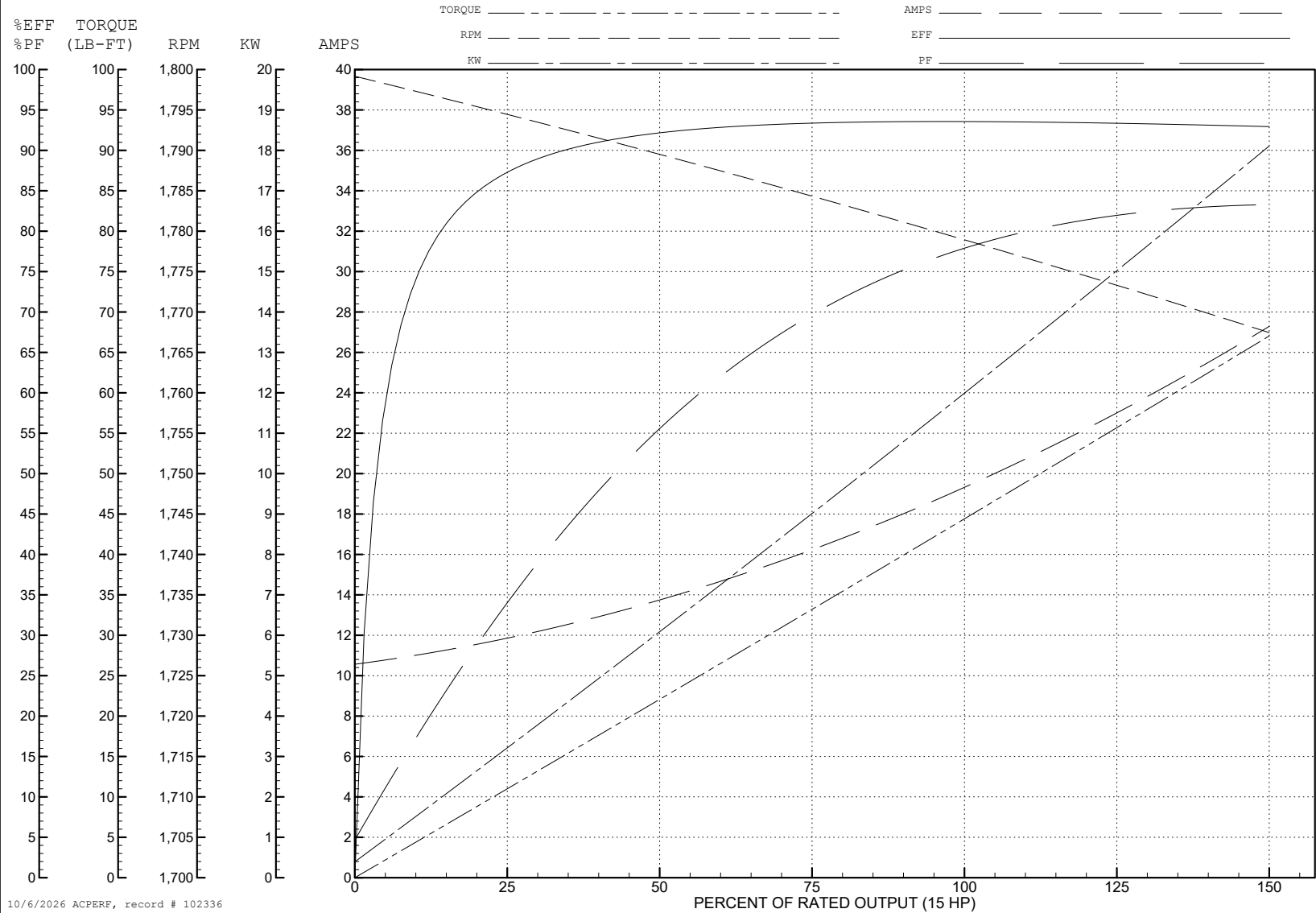
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WINDING # 09WGT627

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1778.8 RPM 460 V 0948M

TORQUES (LB-FT): PO=179 PU=95.7 LR=99.8 LRA=174



AC Induction Motor Performance Data

Record # 102337

Typical performance - not guaranteed values

Winding: 09WGT627-R001				Type: 0948M		Enclosure: OPEN	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		15HP//11KW		Full Load Torque		53.65 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		40/20//46/23		Breakdown Torque		176 LB-FT	
R.P.M.		1780//1475		Pull-up Torque		94 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		98.1 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		173 A
Service Factor (S.F.)		1.15		No-load Current		10.4 A	
NEMA Nom. Eff.		93	Power Factor	77	Line-line Res. @ 25°C		0.44172 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		36°C	
S.F. Amps		46-44/22//48/24		Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		36.9	
				Rotor inertia		2.1 lb-ft²	

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	81	84	85	83
Efficiency	89.3	92.6	93.1	92.7	92.2	91.9	92.4
Speed	1493.5	1487	1479.9	1472.8	1467.9	1464.7	1470
Line amperes	11.6	14.5	18.2	22.5	25.4	27.4	24.2

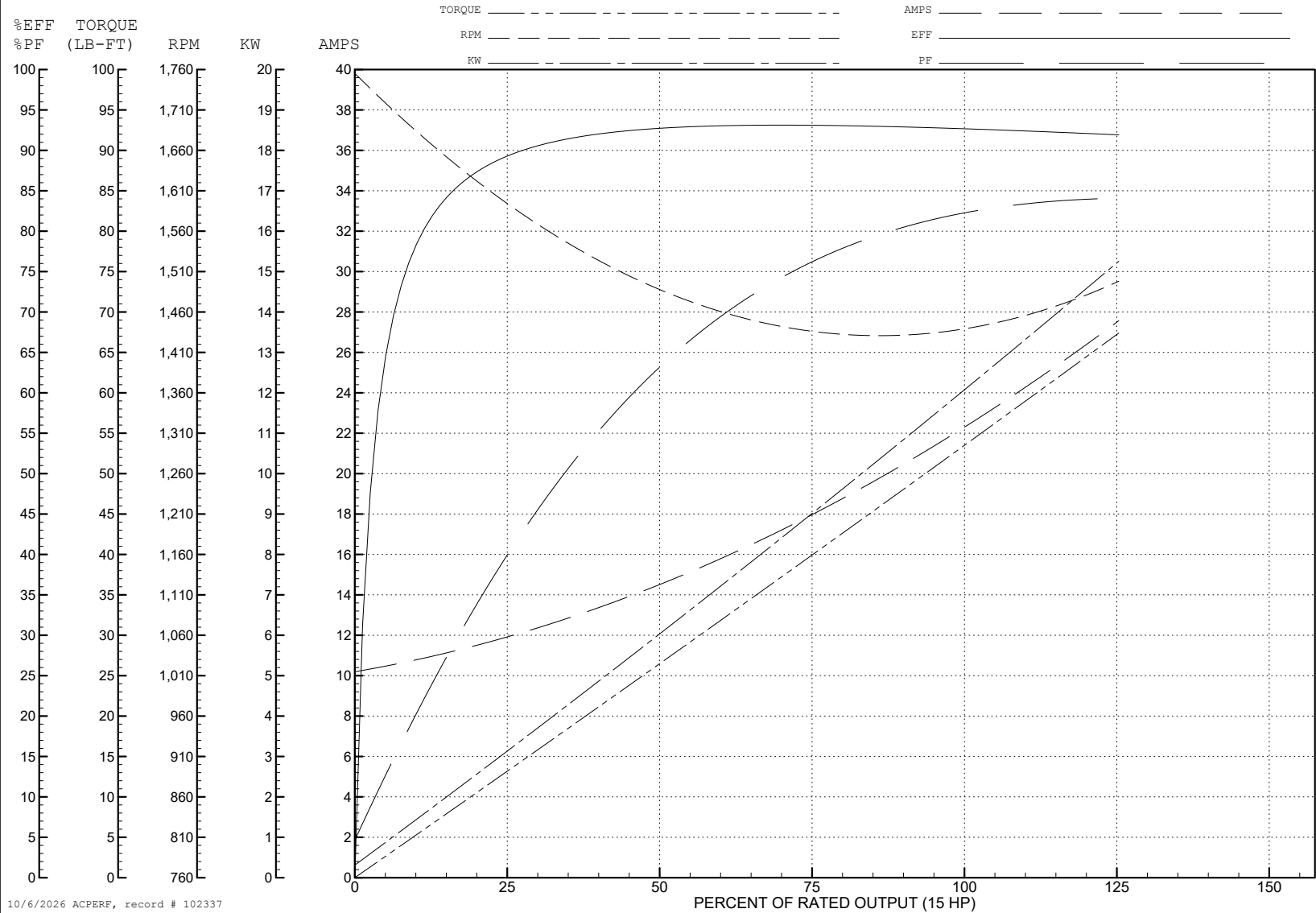
ABB Motors and Mechanical Inc.

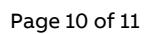
WINDING # 09WGT627

Typical performance - not guaranteed values.

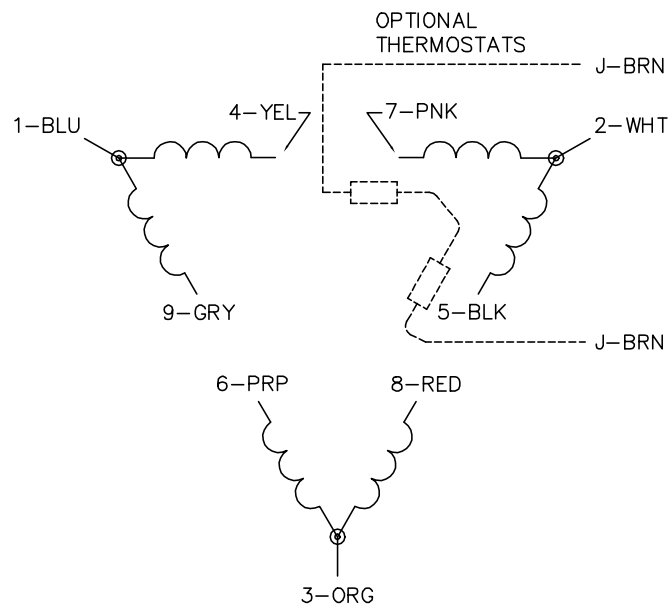
15 HP 3 PH 50 HZ 1472.8 RPM 380 V 0948M

TORQUES (LB-FT): PO=176 PU=94 LR=98.1 LRA=173

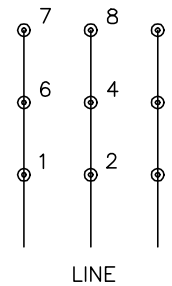




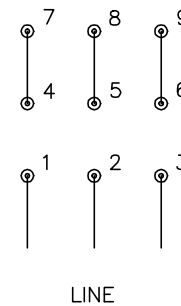
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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