

ABB BALDOR RELIANCE III

Customer information packet

GNEM4100T-G

15HP//11KW, 1180//980RPM, 3PH, 60//50HZ, 284

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	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	46.000 A @ 190.0 V 42.000 A @ 208.0 V 40.000 A @ 230.0 V

Part Detail

Revision	G
Type	AC
Mech. spec.	10H279
Base	
Status	PRD/A
Elec. spec.	10WGZ893
Layout	10LYH279
Eff. date	07-24-2026
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	11-29-2023

	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	91.7 %
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	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 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	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	Shaft Slinger
Speed	1180 rpm 980 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.	GNEM4100T-G								
SPEC.	10H279Z893G1								
HP	15HP//11KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	44-42/21//48/24								
R.P.M. (1/MIN)	1180//980					WT.	451		KG
FRAME	284T		HZ	60//50		I.P.	54		
SER.F.	1.15	CODE	K	DES.	A	CLASS	H		
NOM.EFF.	91.7//90.3		% (100%)						
P.F.	72	IC411, 10:1 VT							
RATING	40C AMB-CONT				CC	010A			
DE	6311		ODE	6309					
ENCL	TEFC	SN							
	IE3-50HZ 92.8(75%),92.2(50%)								
	IE3-60HZ 92.9(75%),91.6(50%)								
	SFA 49-48/24//52/26								

AC Induction Motor Performance Data

Record # 105126

Typical performance - not guaranteed values

Winding: 10WGZ893-R002				Type: 1064M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15HP//11KW		Full Load Torque		66.34 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		44-42/21//48/24		Breakdown Torque		233 LB-FT	
R.P.M.		1180//980		Pull-up Torque		93 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		133 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		154 A
Service Factor (S.F.)		1.15		No-load Current		11.8 A	
NEMA Nom. Eff.		91.7	Power Factor	72	Line-line Res. @ 25°C		0.43546 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C	
S.F. Amps		49-48/24//52/26		Temp. Rise @ S.F. Load		40°C	
				Locked-rotor Power Factor		29.9	
				Rotor inertia		7.84 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	65	72	76	79	74
Efficiency	86.3	91.6	92.9	93.2	93	92.4	93.1
Speed	1197.8	1195	1191.2	1188.4	1184.8	1180.4	1186
Line amperes	12.7	14.7	17.5	20.9	24.7	28.9	23.2

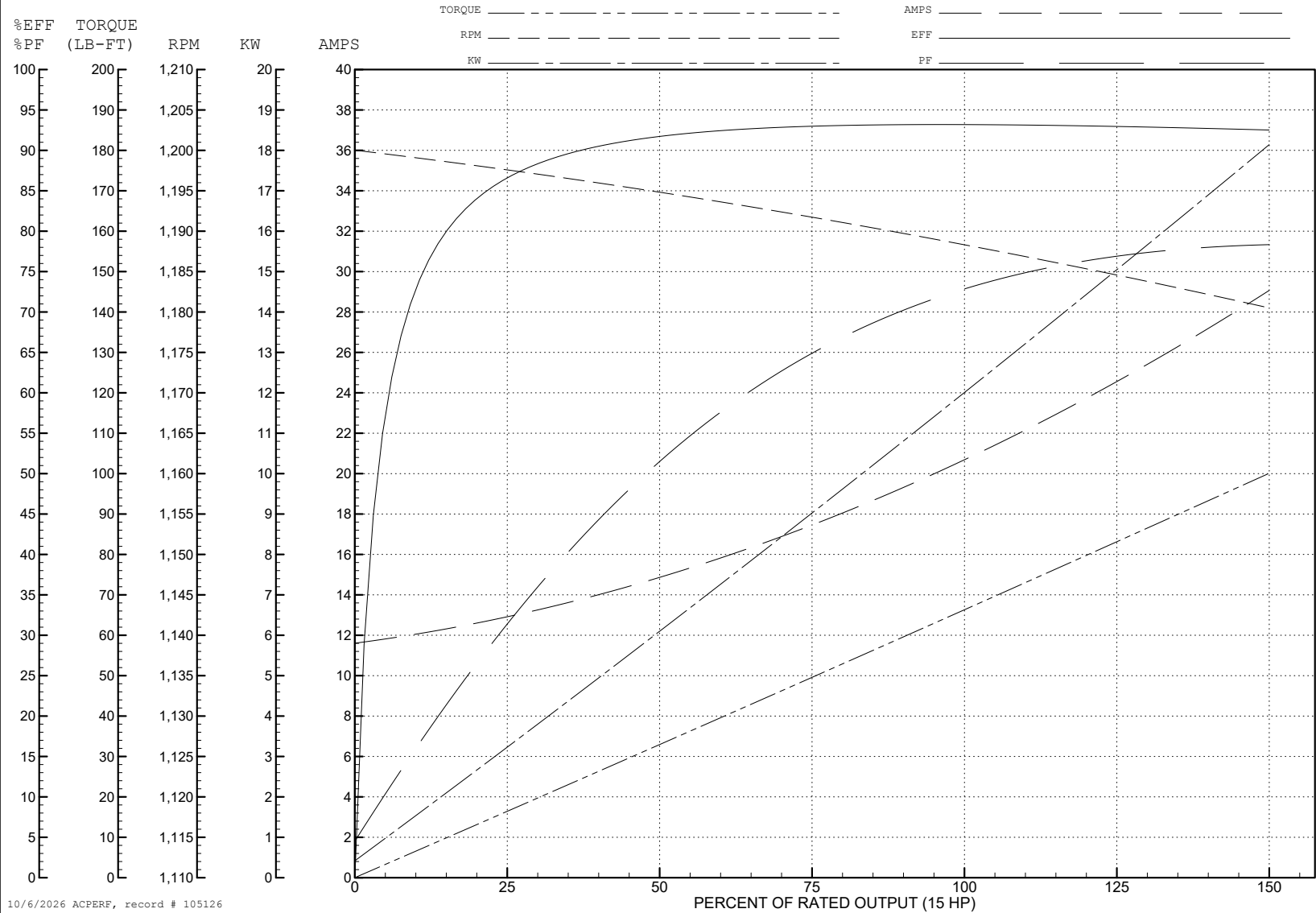
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WINDING # 10WZ893

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1188.4 RPM 460 V 1064M

TORQUES (LB-FT) : PO=233 PU=93 LR=133 LRA=154



AC Induction Motor Performance Data

Record # 105127

Typical performance - not guaranteed values

Winding: 10WGZ893-R002				Type: 1064M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		15HP//11KW		Full Load Torque		80.24 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		44-42/21//48/24		Breakdown Torque		232 LB-FT	
R.P.M.		1180//980		Pull-up Torque		125 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		141 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		154 A
Service Factor (S.F.)		1.15		No-load Current		11.6 A	
NEMA Nom. Eff.		91.7	Power Factor	72	Line-line Res. @ 25°C		0.43826 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C	
S.F. Amps		49-48/24//52/26		Temp. Rise @ S.F. Load		49°C	
				Locked-rotor Power Factor		33.2	
				Rotor inertia		7.84 lb-ft²	

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	59	71	77	79	79	78
Efficiency	88.3	92.2	92.8	92.4	91.9	91.5	92.1
Speed	996	992	987.7	983	980.1	977.9	981
Line amperes	12.9	15.7	19.5	24.1	27.1	29.3	25.9

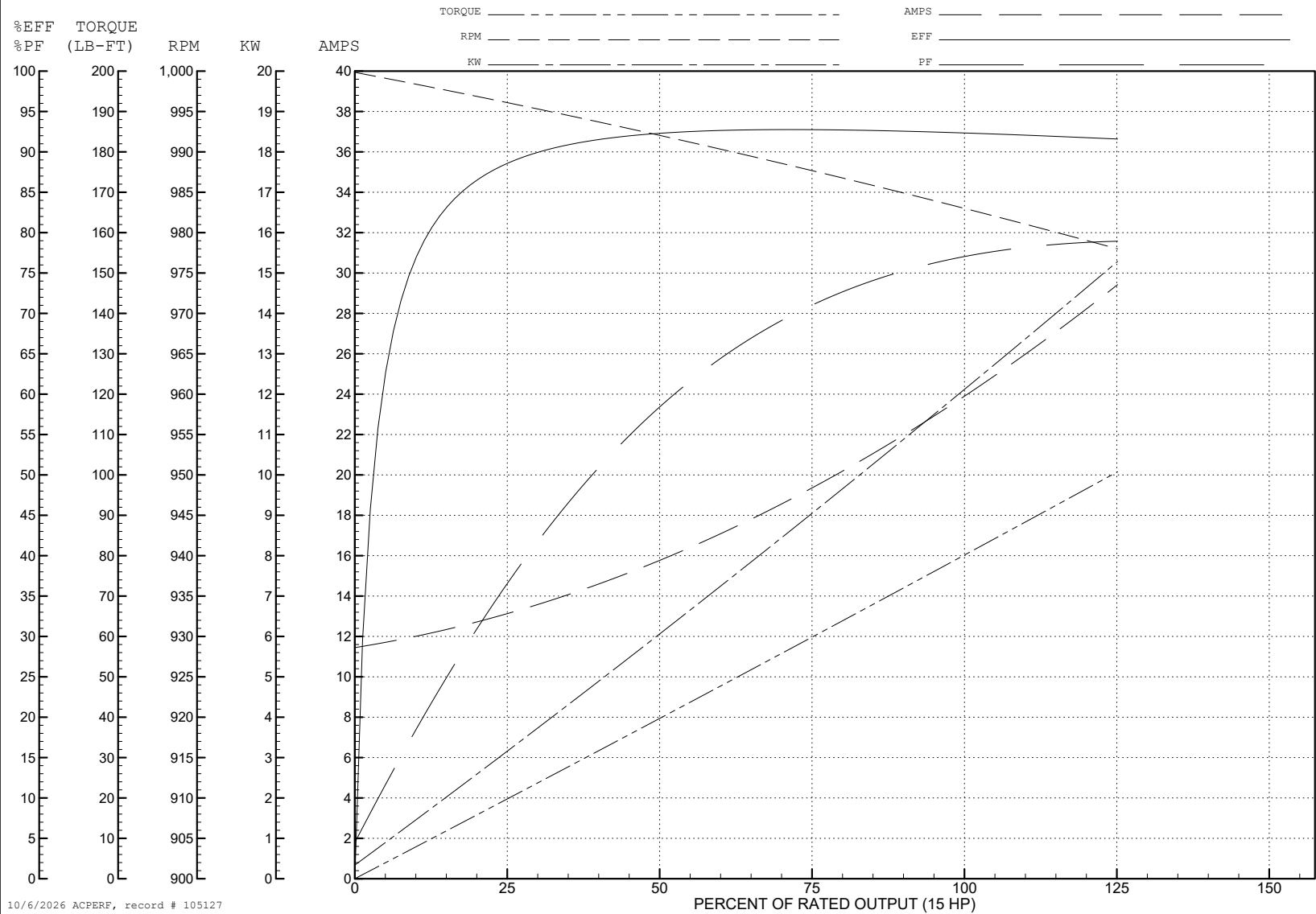
ABB Motors and Mechanical Inc.

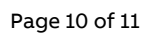
WINDING # 10WGZ893

Typical performance - not guaranteed values.

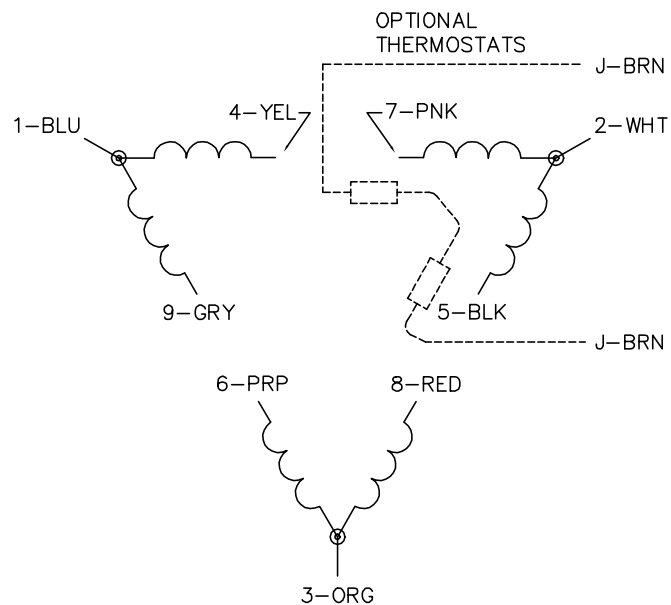
15 HP 3 PH 50 HZ 983 RPM 380 V 1064M

TORQUES (LB-FT): PO=232 PU=125 LR=141 LRA=154

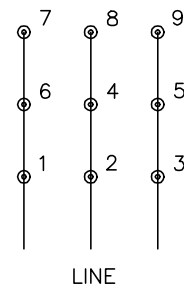




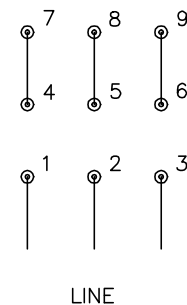
CD0180



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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