

ABB BALDOR RELIANCE III

Customer information packet

GNEM4102T-G

20HP//15KW, 1180//980RPM, 3PH, 60//50HZ, 286

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286T
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	20.000 HP @ 60 HZ 15.000 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	66.000 A @ 190.0 V 58.000 A @ 230.0 V 58.000 A @ 208.0 V

Part Detail

Revision	F
Type	AC
Mech. spec.	10H279
Base	
Status	PRD/A
Elec. spec.	10WGZ615
Layout	10LYH279
Eff. date	07-24-2026
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	09-20-2023

	33.000 A @ 380.0 V
	29.000 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	29.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
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	70
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.	GNEM4102T-G								
SPEC.	10H279Z615G1								
HP	20HP//15KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	58/29//66/33								
R.P.M. (1/MIN)	1180//980					WT.	205KG		KG
FRAME	286T	HZ		60//50		I.P.		54	
SER.F.	1.15	CODE	K	DES.	A	CLASS		H	
NOM.EFF.	91.7//91.2		% (100%)						
P.F.	70	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6311		ODE	6309					
ENCL	TEFC	SN							
	SFA 66/33//74/37								
	IE3-50HZ 90.9(75%), 89.6(50%)								
	IE3-60HZ 90.8(75%), 88.8(50%)								

AC Induction Motor Performance Data

Record # 102714

Typical performance - not guaranteed values

Winding: 39WGX503-R004				Type: 3960M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		10HP//7.5KW		Full Load Torque		53.04 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		31/15.5//36/18		Breakdown Torque		176 LB-FT	
R.P.M.		1180//980		Pull-up Torque		70.2 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		85.5 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		110 A
Service Factor (S.F.)		1.15		No-load Current		9.46 A	
NEMA Nom. Eff.		91.7	Power Factor	66	Line-line Res. @ 25°C		0.578 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		21°C	
S.F. Amps				Temp. Rise @ S.F. Load		26°C	
				Locked-rotor Power Factor		28.1	
				Rotor inertia		4.82 lb-ft²	

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	63	69	73	74	71
Efficiency	84.5	90.2	91.6	91.8	91.2	90.3	91.4
Speed	996	992	988	983	978	972	980
Line amperes	10.25	12.06	14.67	17.7	21.5	25.3	20

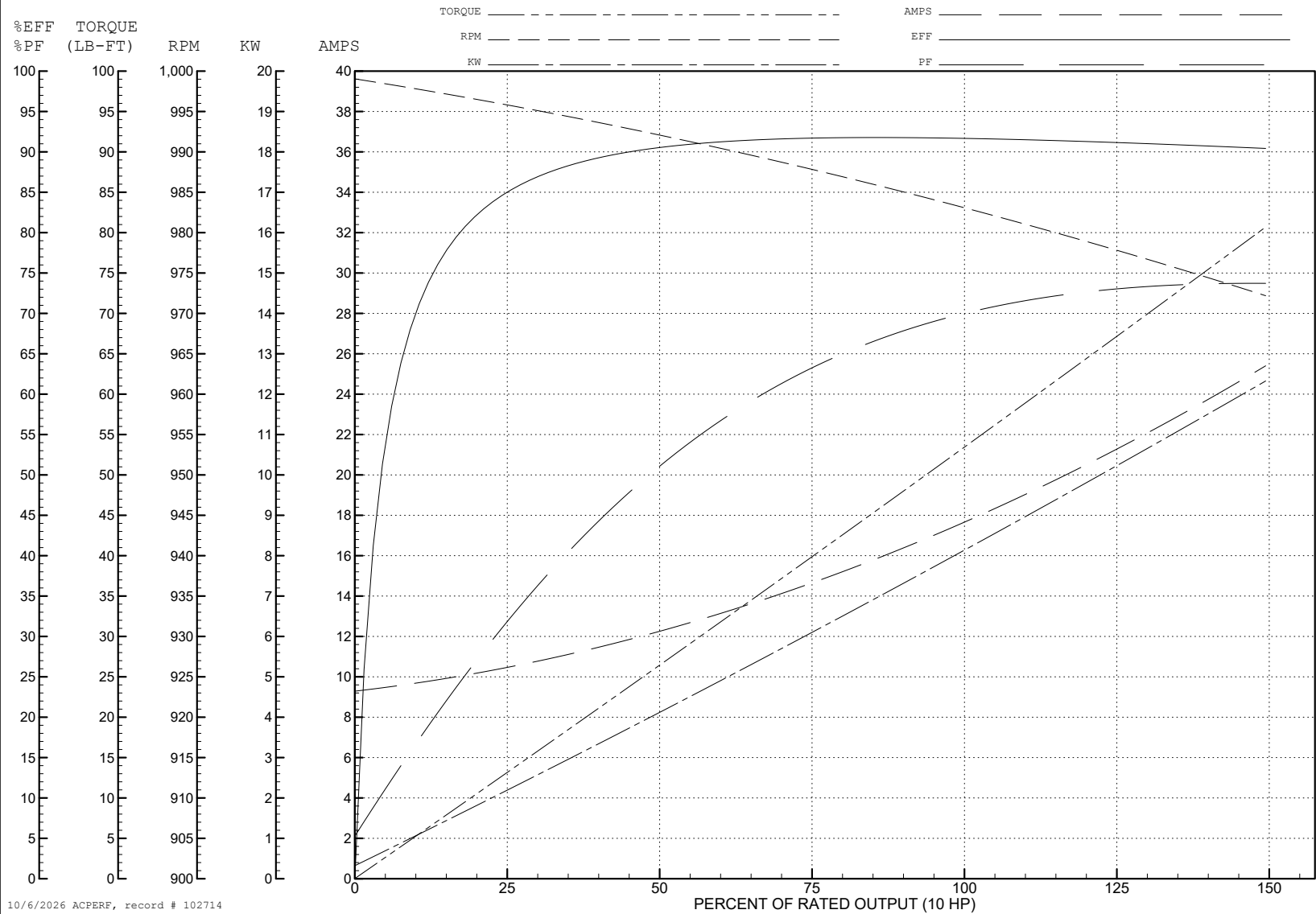
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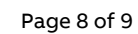
WINDING # 39WGX503

Typical performance - not guaranteed values.

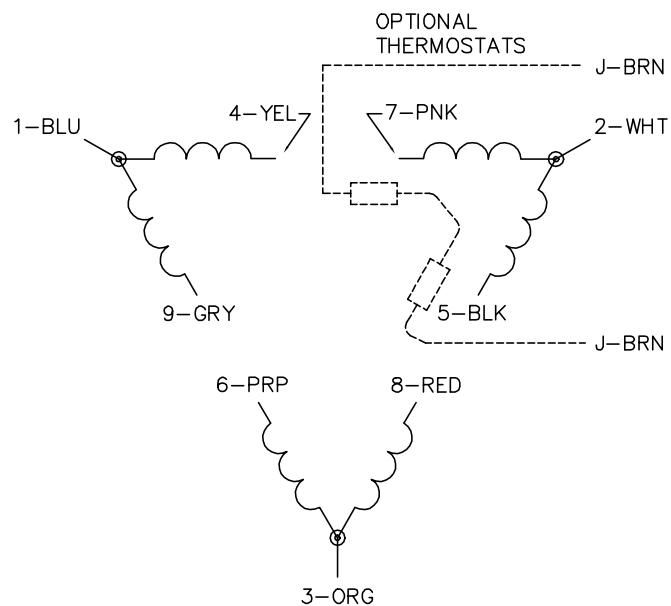
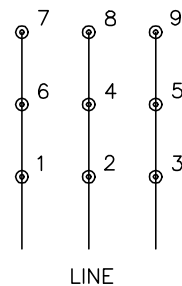
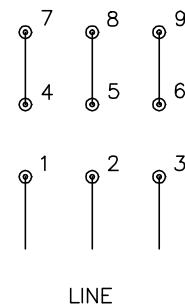
10 HP 3 PH 50 HZ 983 RPM 380 V 3960M

TORQUES (LB-FT): PO=176 PU=70.2 LR=85.5 LRA=110





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.

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

SH 1 of 1

CD0180