

ABB BALDOR RELIANCE III

Customer information packet

EM2511T-BG

10HP, 1180RPM, 3PH, 60HZ, 256T, 3954M, OPSB, F1

Class -

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV UR CSA
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	14.300 A @ 460.0 V 28.600 A @ 230.0 V 30.000 A @ 208.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Q
Type	AC
Mech. spec.	39E531
Base	
Status	PRD/A
Elec. spec.	39WGW950
Layout	39LYE531
Eff. date	11-29-2023
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	10-07-2013

High Voltage Full Load Amps	14.3 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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

NP1259LUA									
CAT.NO.	EM2511T-BG								
SPEC.	39E531W950G1								
HP	10								
VOLTS	230/460								
AMPS	28.6/14.3								
R.P.M.	1180								
FRAME	256T		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES	A	CLASS	H		
NEMA NOM. EFF.	91.7		P.F.	71					
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	OPSB	SN							
USABLE AT	50HZ 10HP 190/380V 33.4/16.7A								SF1.0

AC Induction Motor Performance Data

Record # 36294

Typical performance - not guaranteed values

Winding: 39WGW950-R004				Type: 3954M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		44.1 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		28.6/14.3		Breakdown Torque		149 LB-FT	
R.P.M.		1180		Pull-up Torque		55.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		67.6 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		91.6 A
Service Factor (S.F.)		1.15		No-load Current		7.51 A	
NEMA Nom. Eff.		91.7	Power Factor	71	Line-line Res. @ 25°C		0.72568 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		18°C	
S.F. Amps				Temp. Rise @ S.F. Load		22°C	
				Locked-rotor Power Factor		25.9	
				Rotor inertia		4.34 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	64	70	73	74	72
Efficiency	84.5	90.2	91.8	92.1	91.8	91.1	91.9
Speed	1195.9	1191.9	1187.8	1182.8	1177.7	1171.6	1180
Line amperes	8.2	9.72	11.9	14.4	17.5	20.6	16.3

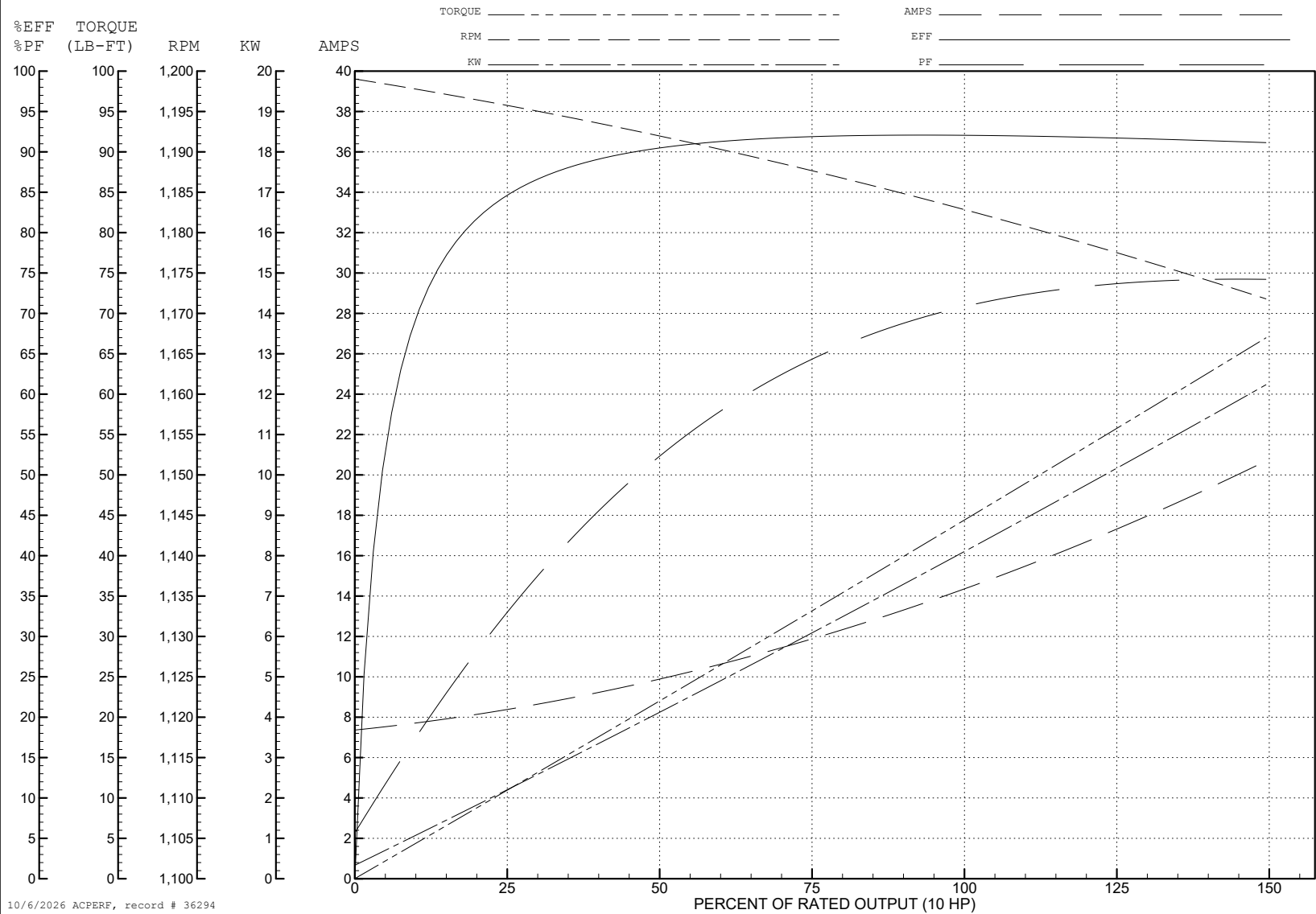
ABB Motors and Mechanical Inc.

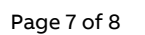
WINDING # 39WGW950

Typical performance - not guaranteed values.

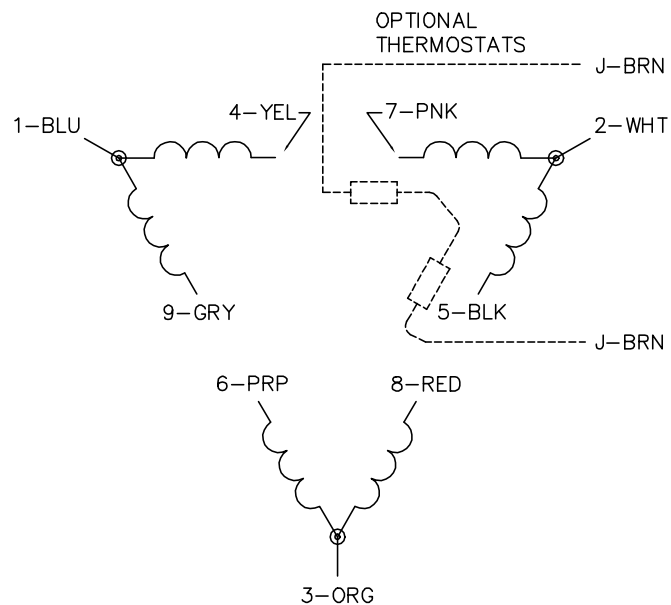
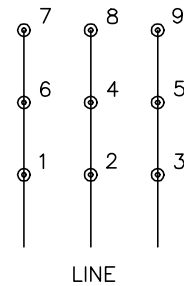
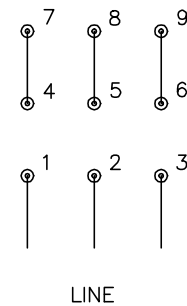
10 HP 3 PH 60 HZ 1180 RPM 460 V 3954M

TORQUES (LB-FT): PO=149 PU=55.5 LR=67.6 LRA=91.6





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

SH 1 of 1