

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM4106T-8

20HP, 3510RPM, 3PH, 60HZ, 256T, 0936M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	256T
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	None
<b>Haz Area Division</b>	Not Applicable
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	20.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	200.0 V @ 60 HZ
<b>Agency Approvals</b>	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	51.000 A @ 208.0 V 52.000 A @ 200.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	91.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	52.0 a
<b>Insulation Class</b>	F

**Part Detail**

<b>Revision</b>	G
<b>Type</b>	AC
<b>Mech. spec.</b>	09P11
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	09WGT605
<b>Layout</b>	09LYP011
<b>Eff. date</b>	04-16-2024
<b>CD Diagram</b>	CD0695
<b>Poles</b>	02
<b>Leads</b>	6#8
<b>Proprietary</b>	False
<b>Created date</b>	07-07-2021

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	G
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	6 @ 8 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0936M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	23.36 IN
<b>Power Factor</b>	89
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3510 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Part Winding
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3441L</b>									
<b>CAT.NO.</b>	EM4106T-8								
<b>SPEC.</b>	09P011T605								
<b>HP</b>	20								
<b>VOLTS</b>	200								
<b>AMP</b>	52								
<b>RPM</b>	3510								
<b>FRAME</b>	256T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	G	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	91	<b>PF</b>	89						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6309	<b>ODE</b>	6208						
<b>ENCL</b>	TEFC	<b>SN</b>							
<b>VPWM INVERTER READY</b>									
<b>CT6-60H(10:1)VT3-60H(20:1</b>									

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
09-1309	C FACE KIT	A8

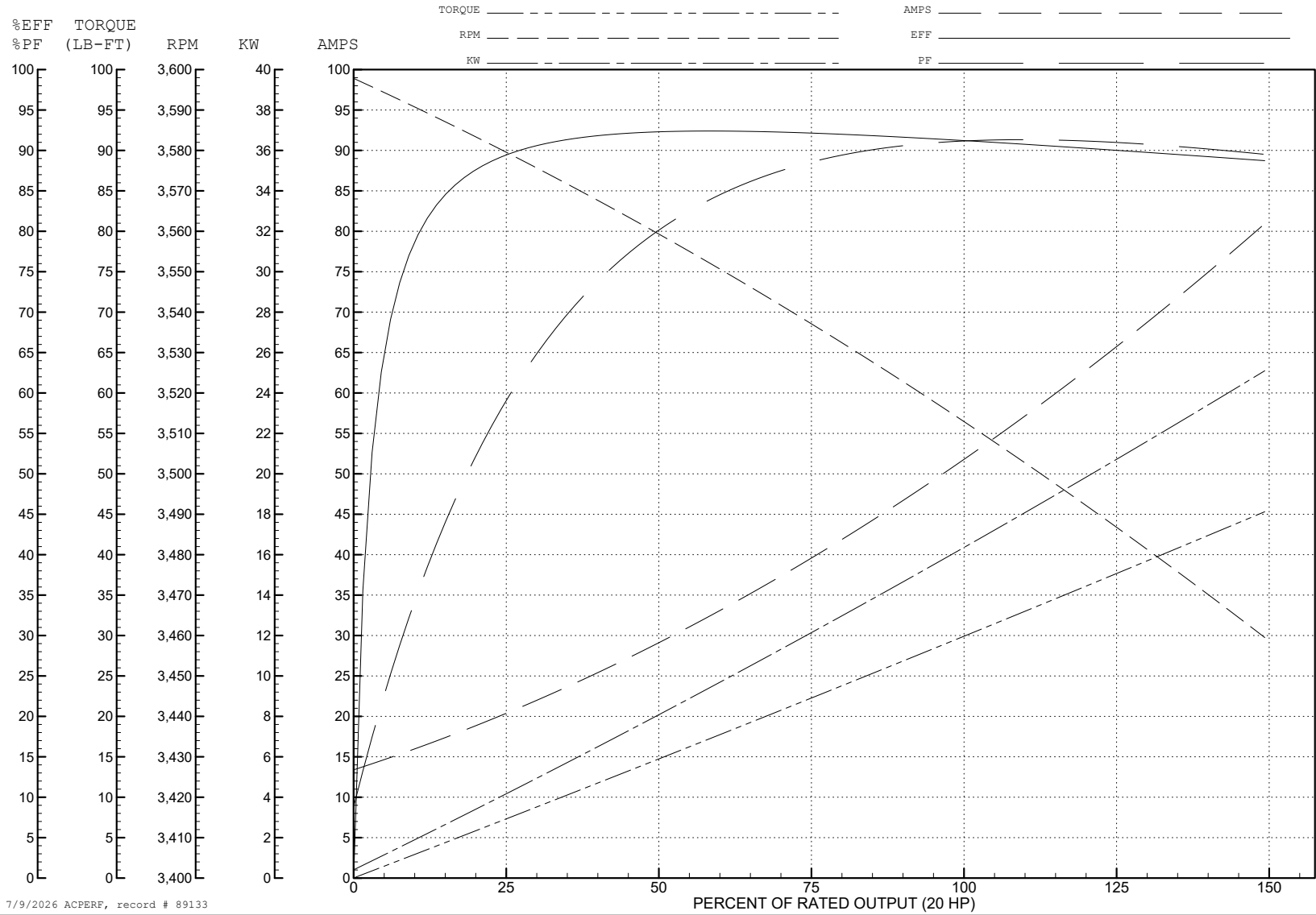
ABB Motors and Mechanical Inc.

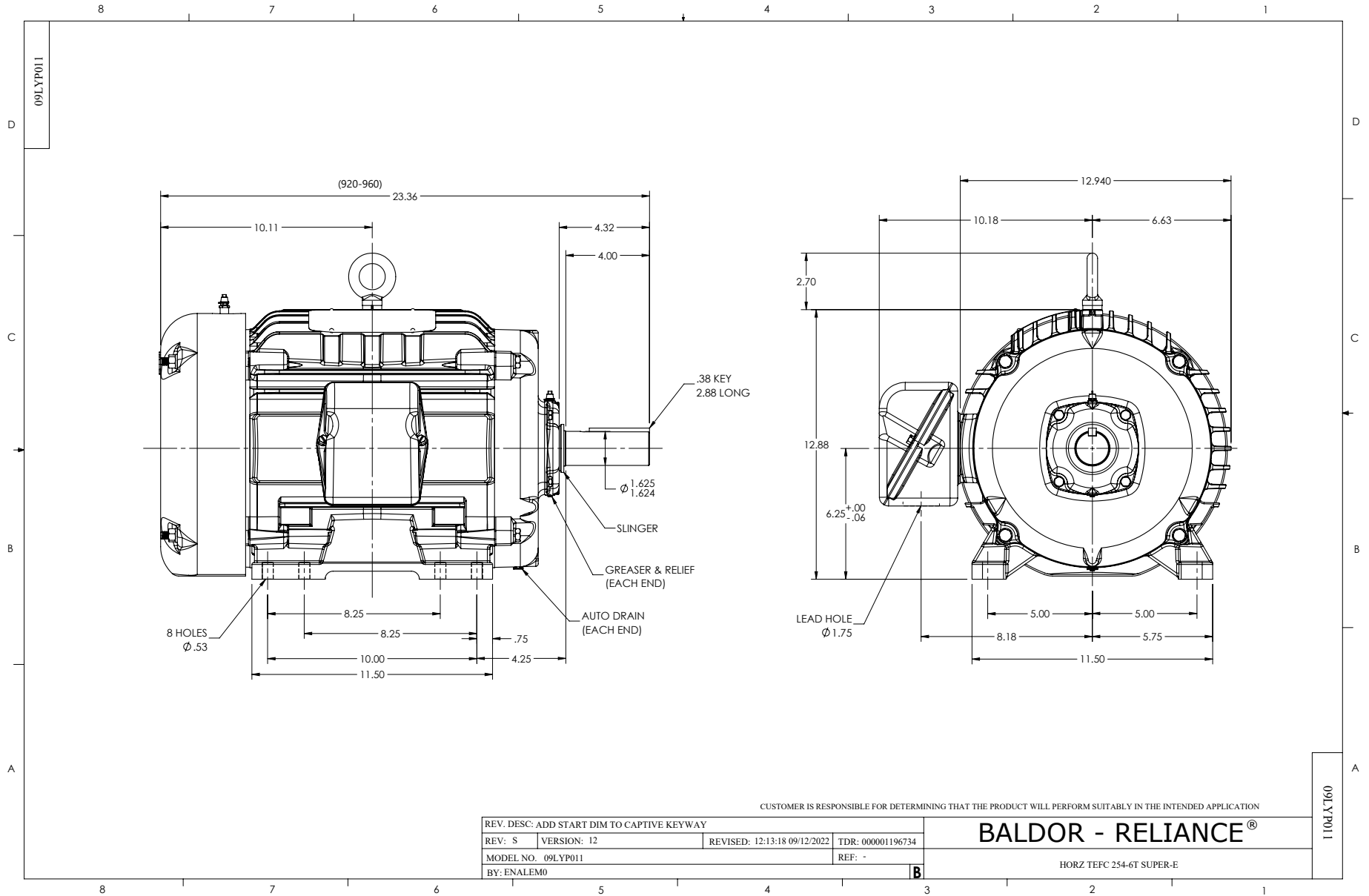
WINDING # 09WGT605

Typical performance - not guaranteed values.

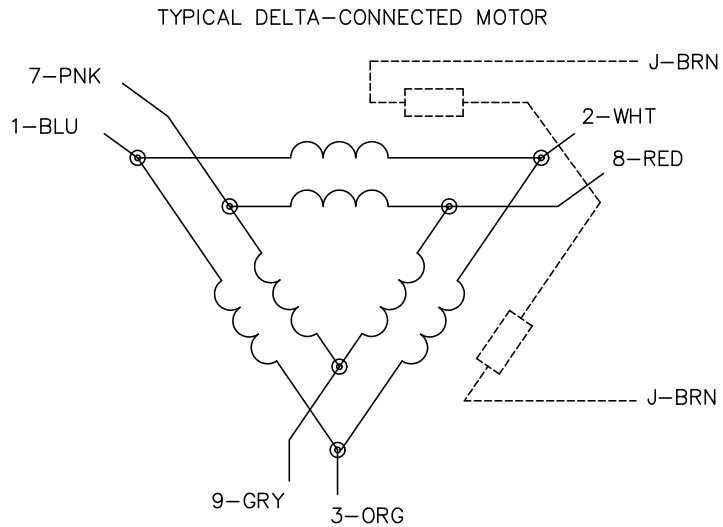
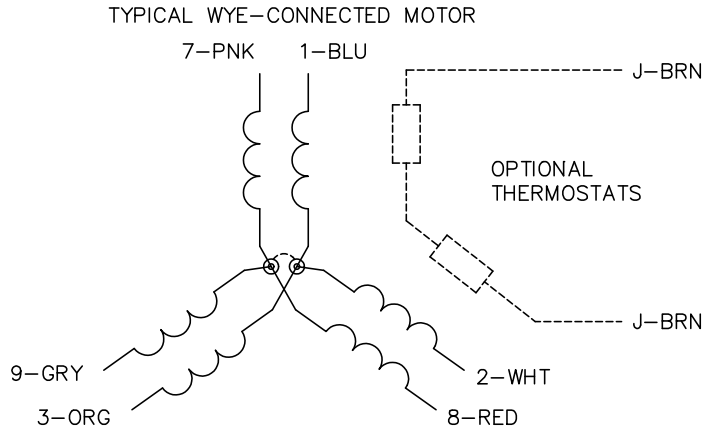
20 HP 3 PH 60 HZ 3510 RPM 200 V 0936M

TORQUES (LB-FT): PO=102 PU=35.75 LR=45.36 LRA=341

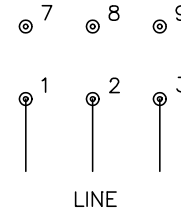




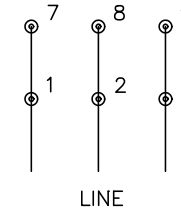
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
S69000		FILE: AAA00005151	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, PART WINDING START