

ABB BALDOR RELIANCE III

Customer information packet

EM2334T-8

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	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
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	54.000 A @ 208.0 V 55.000 A @ 200.0 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	55.0 a
Insulation Class	F

Part Detail

Revision	H
Type	AC
Mech. spec.	09P11
Base	
Status	PRD/A
Elec. spec.	09WGT604
Layout	09LYP011
Eff. date	08-26-2026
CD Diagram	CD0695
Poles	04
Leads	6#8
Proprietary	False
Created date	07-07-2021

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.36 IN
Power Factor	83
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 Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441L											
CAT.NO.	EM2334T-8										
SPEC.	09P011T604										
HP	20										
VOLTS	200										
AMP	55										
RPM	1770										
FRAME	256T		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F				
NEMA-NOM-EFF	93	PF	83								
RATING	40C AMB-CONT										
CC	010A										
DE	6309		ODE	6208							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 89134

Typical performance - not guaranteed values

Winding: 09WGT604-R001			Type: 0960M		Enclosure: TEFC		
Nameplate Data			200 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		20	Full Load Torque		59.29 LB-FT		
Volts		200	Start Configuration		direct on line		
Full Load Amps		55	Breakdown Torque		225 LB-FT		
R.P.M.		1770	Pull-up Torque		122 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		136 LB-FT		
NEMA Design Code		A	KVA Code		J	Starting Current	443 A
Service Factor (S.F.)		1.15	No-load Current		23.02 A		
NEMA Nom. Eff.		93	Power Factor		83	Line-line Res. @ 25°C	0.064 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C
S.F. Amps					Temp. Rise @ S.F. Load		70°C
					Locked-rotor Power Factor		26.7169
					Rotor inertia		2.65 lb-ft²

Load Characteristics 200 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	79	84	86	87	85
Efficiency	89.3	93	93.7	93.5	93	92.2	93.2
Speed	1793	1786	1779	1771	1763	1754	1766
Line amperes	26.44	33.98	43.77	54.96	67.29	80.32	62.4

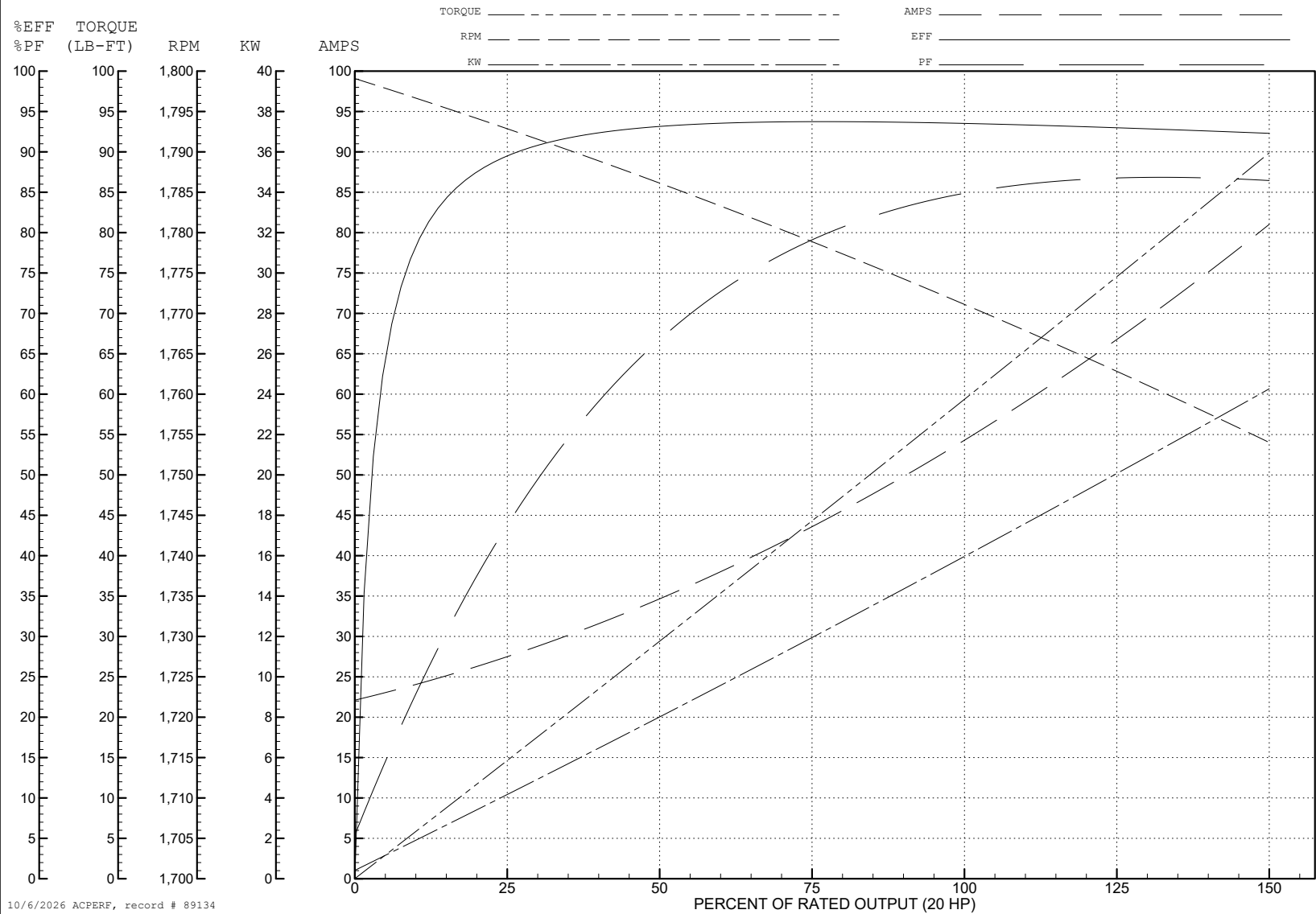
ABB Motors and Mechanical Inc.

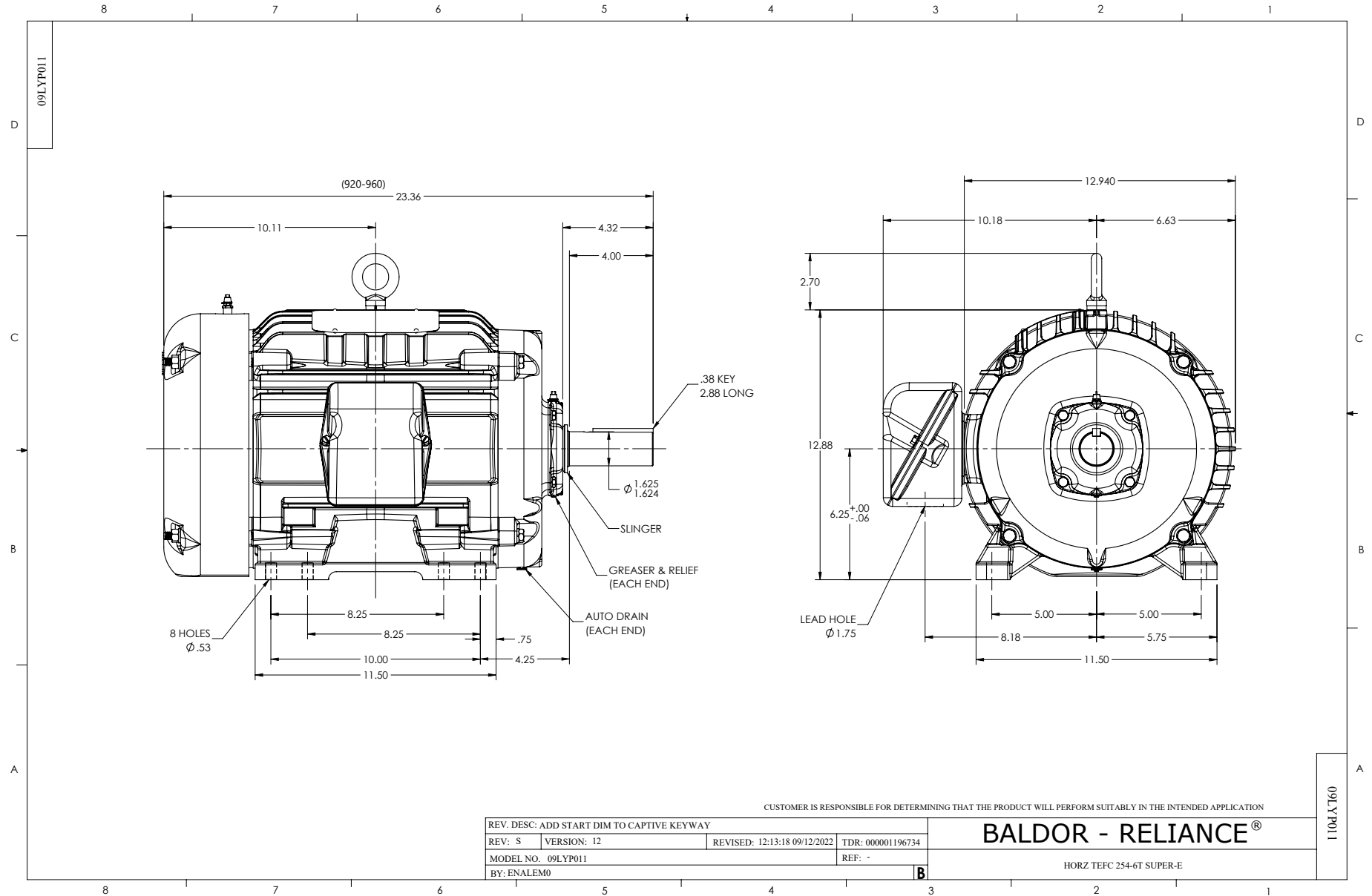
WINDING # 09WGT604

Typical performance - not guaranteed values.

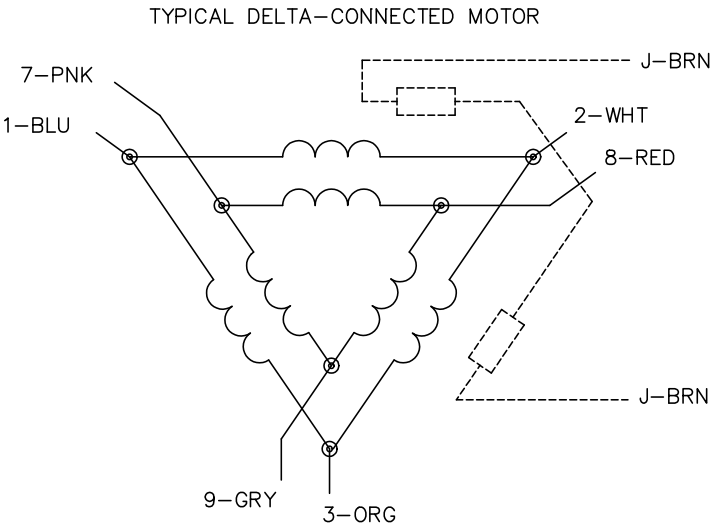
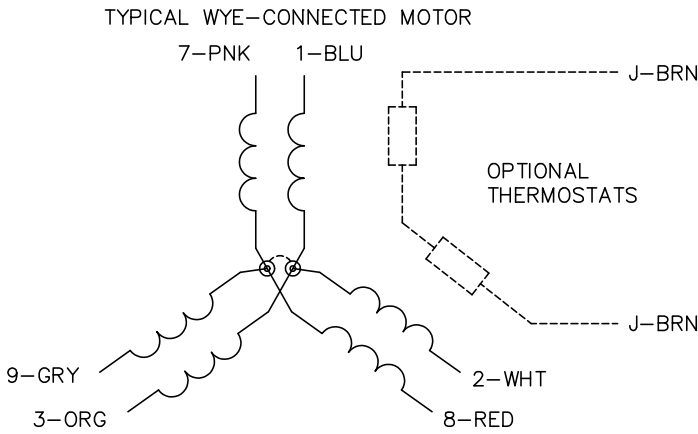
20 HP 3 PH 60 HZ 1770 RPM 200 V 0960M

TORQUES (LB-FT): PO=225 PU=122 LR=136 LRA=443

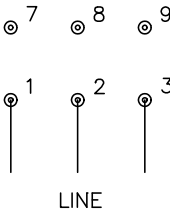




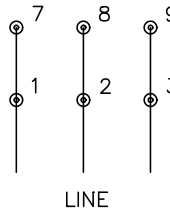
CD0695



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.

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

CD0695