

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM2334T-8**

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

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGT604	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	09P11	Layout:	09LYP011	Poles:	04	Created Date:	07-07-2021
Base:	RG	Eff. Date:	07-13-2022	Leads:	6#8		

Specs			
Catalog Number:	EM2334T-8	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	256T	KVA Code:	J
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 8 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0960M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	83
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

<b>Current @ Voltage:</b>	54.000 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	55.000 A @ 200.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

<b>Nameplate NP3441L</b>										
<b>CAT.NO.</b>	EM2334T-8									
<b>SPEC.</b>	09P011T604									
<b>HP</b>	20									
<b>VOLTS</b>	200									
<b>AMP</b>	55									
<b>RPM</b>	1770									
<b>FRAME</b>	256T				<b>HZ</b>	60			<b>PH</b>	3
<b>SER.F.</b>	1.15		<b>CODE</b>	J	<b>DES</b>	A		<b>CL</b>	F	
<b>NEMA-NOM-EFF</b>	93		<b>PF</b>	83						
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>			54		
<b>DE</b>	6309				<b>ODE</b>	6208				
<b>ENCL</b>	TEFC		<b>SN</b>							
<b>VPWM INVERTER READY</b>										
CT6-60H(10:1)VT3-60H(20:1)										

**AC Induction Motor Performance Data**

Record # 89134

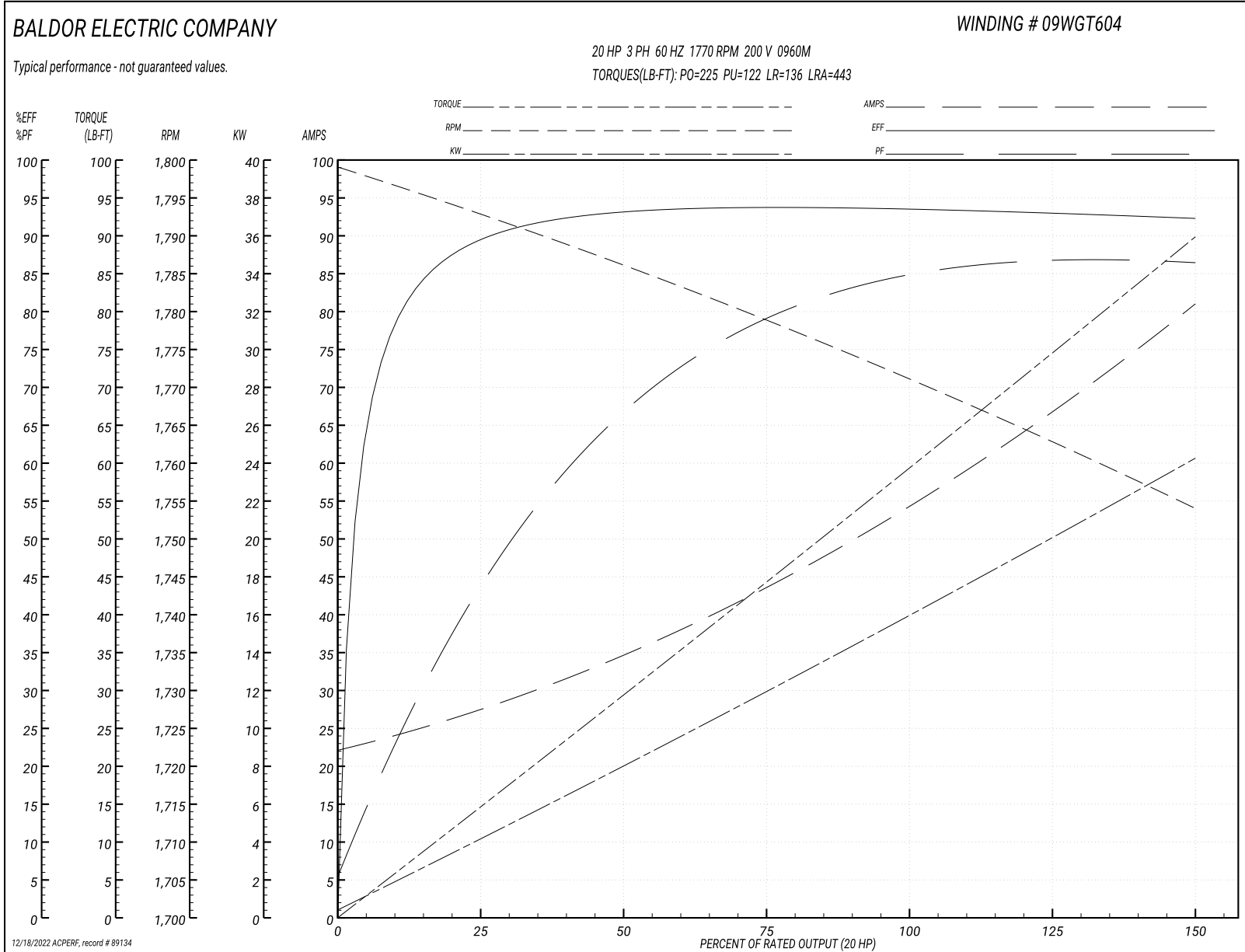
Typical performance - not guaranteed values

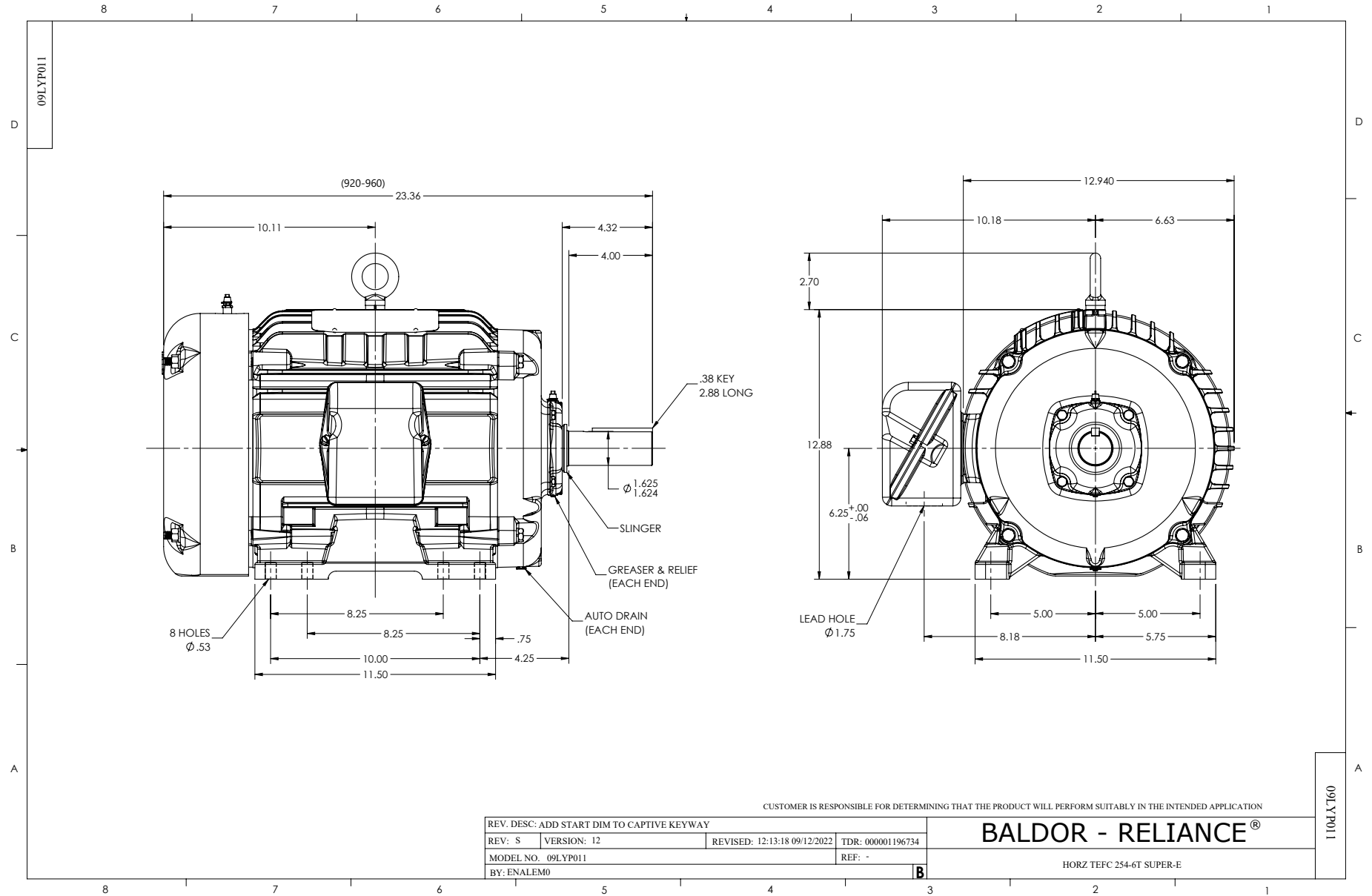
Winding: 09WGT604-R001			Type: 0960M		Enclosure: TEFC	
<b>Nameplate Data</b>				<b>200 V, 60 Hz: Single Voltage Motor</b>		
Rated Output (HP)		20	Full Load Torque			59.29 LB-FT
Volts		200	Start Configuration			direct on line
Full Load Amps		55	Breakdown Torque			225 LB-FT
R.P.M.		1770	Pull-up Torque			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-ft <sup>2</sup>

**Load Characteristics 200 V, 60 Hz, 20 HP**

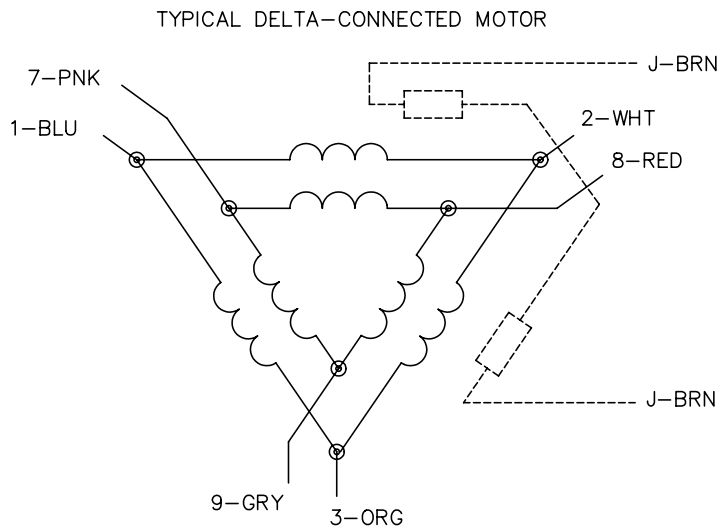
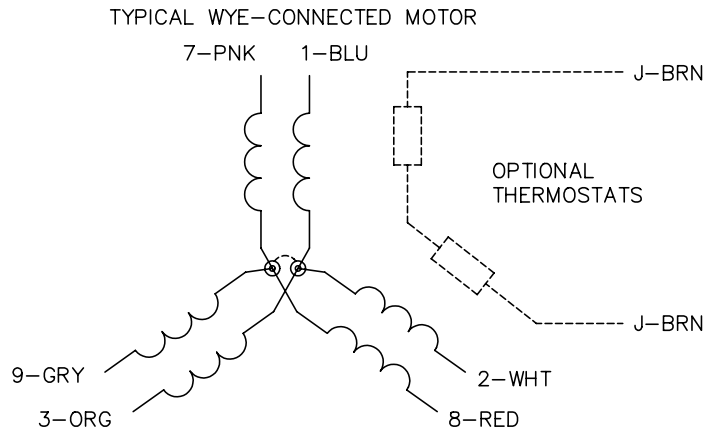
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	79	84	86	87	85
Efficiency	89.3	93	93.7	93.5	93	92.2	93.2
Speed	1793	1786	1779	1771	1763	1754	1766
Line amperes	26.44	33.98	43.77	54.96	67.29	80.32	62.4

Performance Graph at 200V, 60Hz, 20.0HP Typical performance - Not guaranteed values

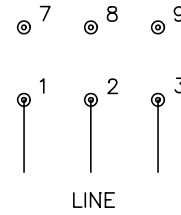




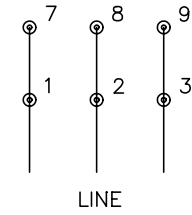
CD0695



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

9690D0

FILE: AAA00005151

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, PART WINDING START

CD0695