

BALDOR® • RELIANCE 

Product Information Packet

EM4103T-8

25HP,1775RPM,3PH,60HZ,284T,1054M,TEFC,F1

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGZ695	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	10C151	Layout:	10LYC151	Poles:	04	Created Date:	10-19-2017
Base:	RG	Eff. Date:	06-16-2021	Leads:	6#6		

Specs			
Catalog Number:	EM4103T-8	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	284T	KVA Code:	J
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	25.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 6 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:	1054M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	81
	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

Current @ Voltage:	71.000 A @ 200.0 V	Shaft Rotation:	Reversible
	72.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Part Winding
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP3443L										
CAT.NO.	EM4103T-8				CUST. P/N				ENCL	TEFC
SPEC.	10C151Z695G1		CC	010A	FRAME	284T		SER.NO.		
HP	25		CLASS	F	HZ	60				
R.P.M.	1775		PH	3	DES	A				
VOLTS	200		CODE	J	ODE BRG	6309		DE BRG	6311	
AMPS	71		USABLE AT 208V	72						
RATING	40C AMB-CONT		NEMA NOM. EFF.	93.6		GREASE	POLYREX EM			
P.F.	81		SER.F.	1.15		VPWM INVERTER READY				
HTR-VOLTS			HTR-AMPS			HTR-WATTS				

AC Induction Motor Performance Data

Record # 67437

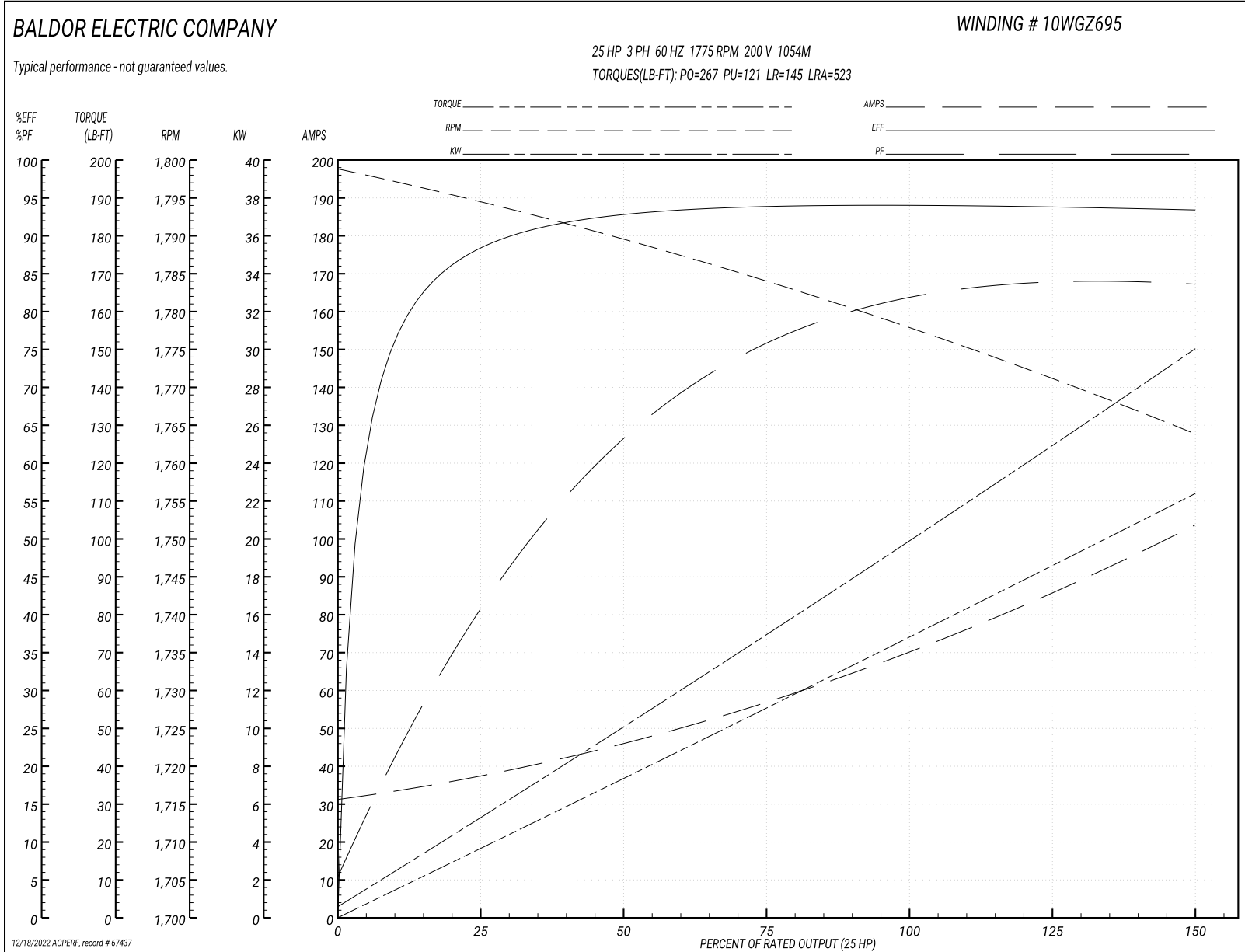
Typical performance - not guaranteed values

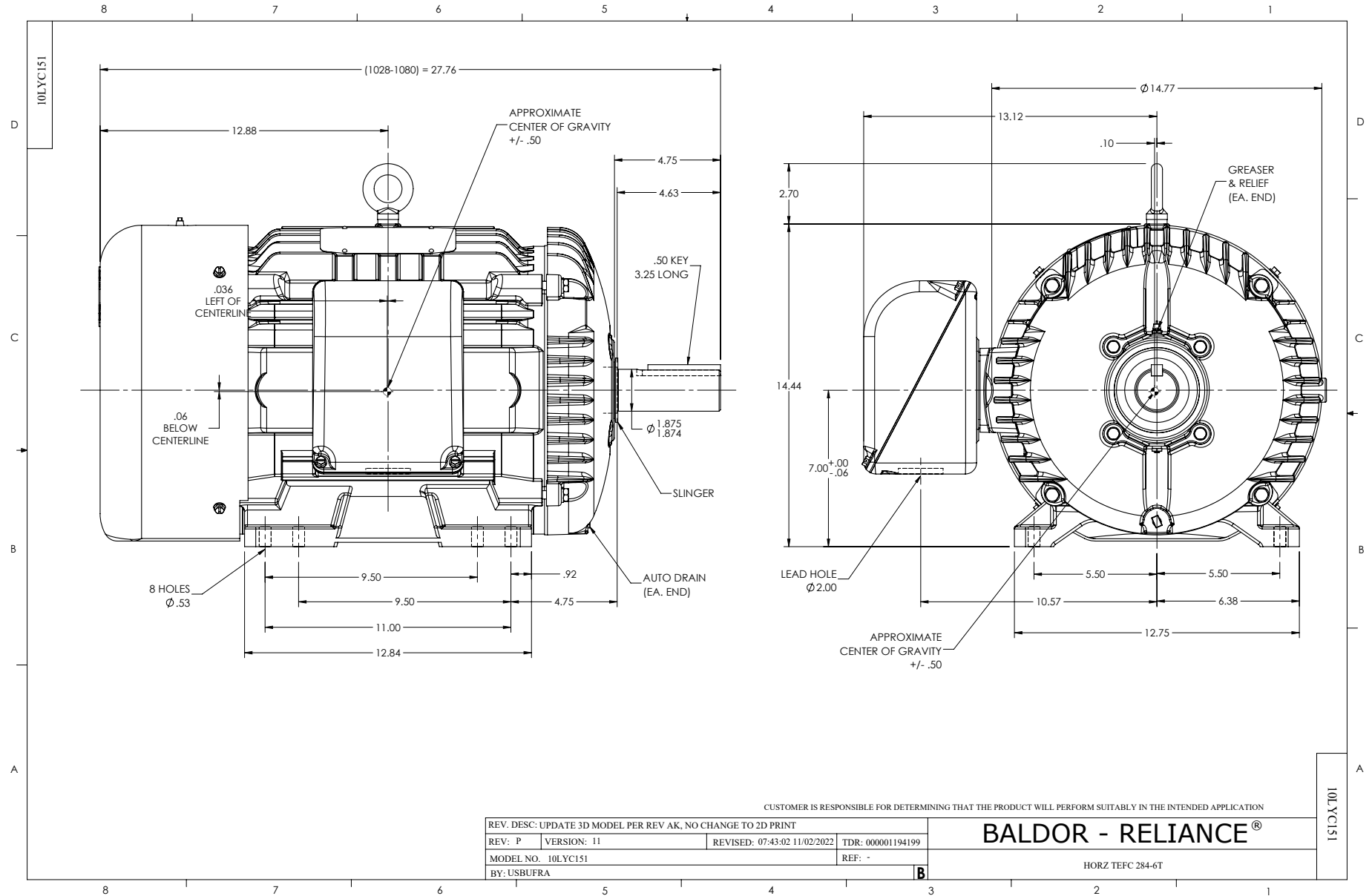
Winding: 10WGZ695-R001		Type: 1054M	Enclosure: TEFC	
Nameplate Data			200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	25	Full Load Torque	74 LB-FT	
Volts	200	Start Configuration	direct on line	
Full Load Amps	71	Breakdown Torque	267 LB-FT	
R.P.M.	1775	Pull-up Torque	121 LB-FT	
Hz	60 Phase	Locked-rotor Torque	145 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	523 A	
Service Factor (S.F.)	1.15	No-load Current	32.29 A	
NEMA Nom. Eff.	93.6 Power Factor	Line-line Res. @ 25°C	0.0425 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	51°C	
S.F. Amps		Temp. Rise @ S.F. Load	61°C	
		Locked-rotor Power Factor	30.6	
		Rotor inertia	4.31 LB-FT ²	

Load Characteristics 200 V, 60 Hz, 25 HP

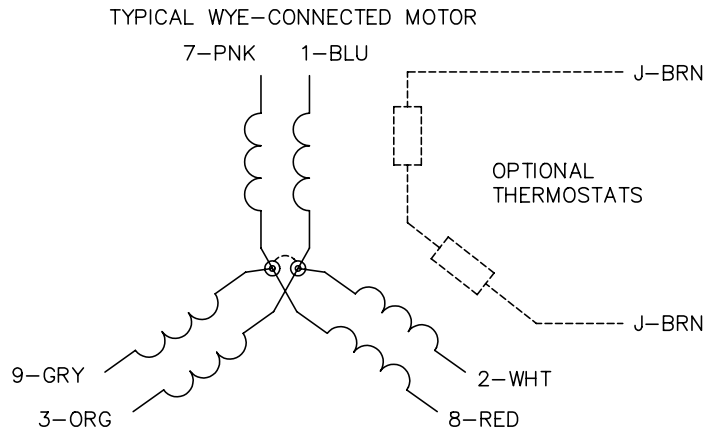
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	65	75	81	83	84	82
Efficiency	88.2	92.8	93.9	94	93.7	93.4	93.8
Speed	1794	1790	1784	1778	1771	1764	1774
Line amperes	36.11	45.2	57.31	70.94	85.99	103	80

Performance Graph at 200V, 60Hz, 25.0HP Typical performance - Not guaranteed values

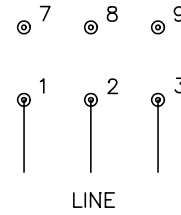




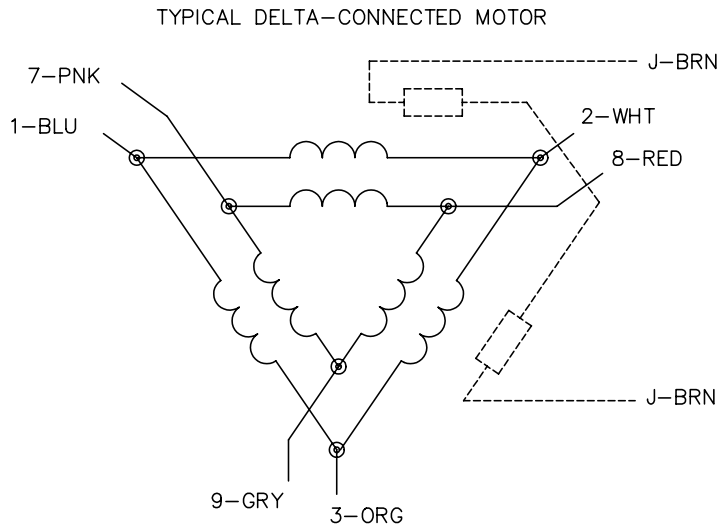
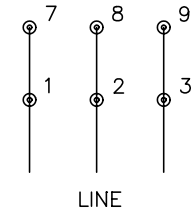
CD0695



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