

ABB BALDOR RELIANCE III

Customer information packet

EM4103T-8

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	71.000 A @ 200.0 V 72.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	71.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ695
Layout	10LYC151
Eff. date	01-07-2026
CD Diagram	CD0695
Poles	04
Leads	6#6
Proprietary	False
Created date	10-19-2017

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	81
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

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												
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									

Accessories

Part number	Description	Multiplier
10-1305	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

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	3	Locked-rotor Torque		145 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		523 A
Service Factor (S.F.)		1.15	No-load Current		32.29 A		
NEMA Nom. Eff.		93.6	Power Factor	81	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

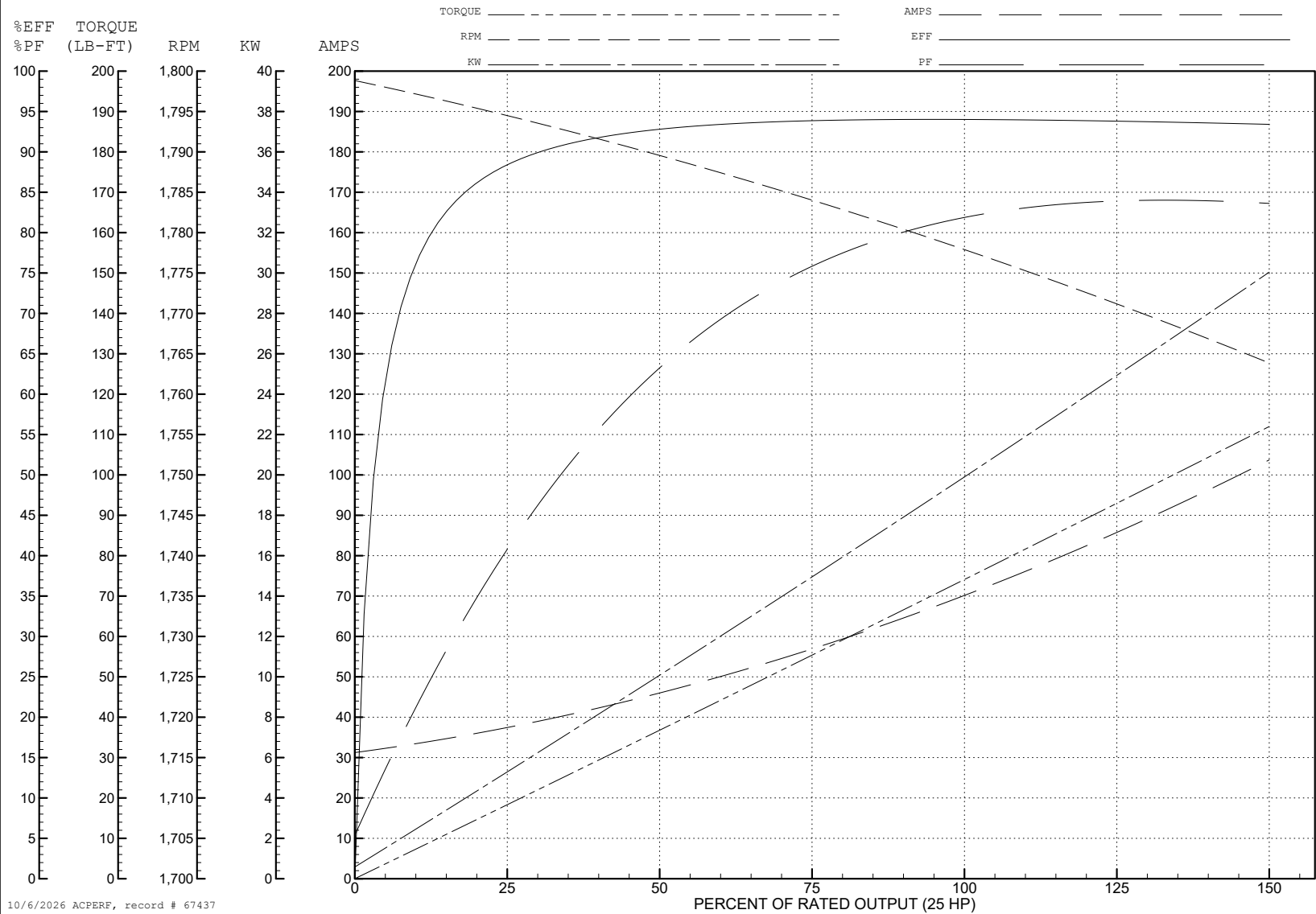
ABB Motors and Mechanical Inc.

WINDING # 10WGZ695

Typical performance - not guaranteed values.

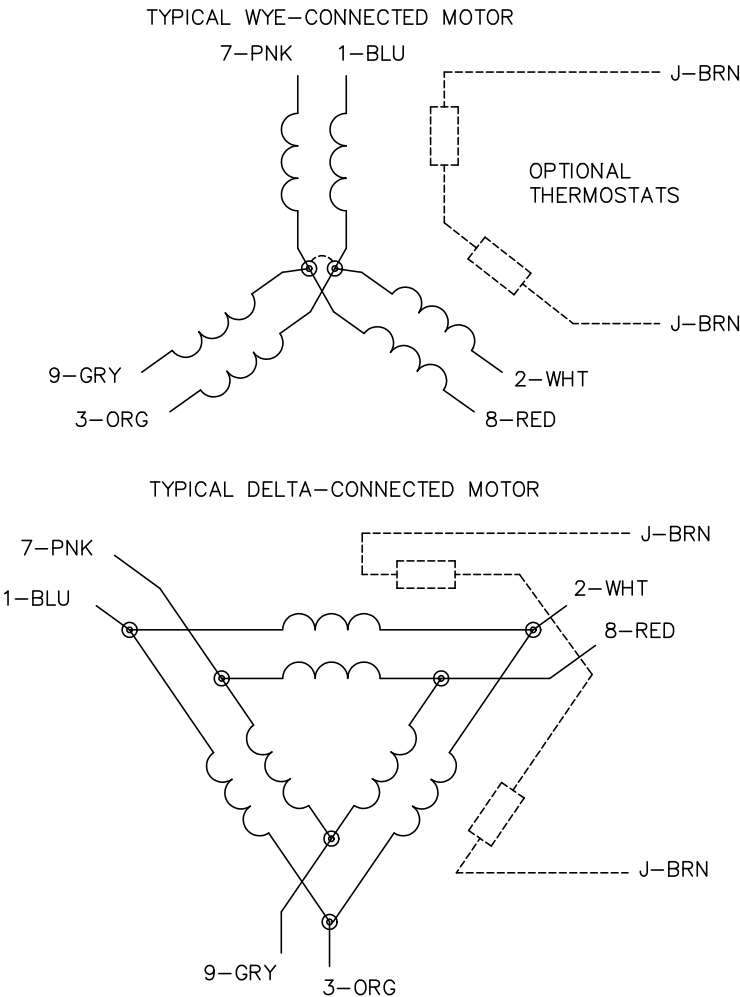
25 HP 3 PH 60 HZ 1775 RPM 200 V 1054M

TORQUES (LB-FT): PO=267 PU=121 LR=145 LRA=523

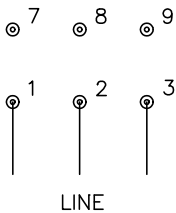




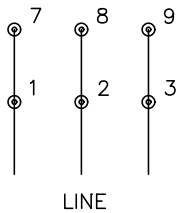
CD0695



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