

ABB BALDOR RELIANCE III

Customer information packet

EM2555T-8

100HP, 1780RPM, 3PH, 60HZ, 404T, 4476M, OPSB, F

Specifications

Enclosure	OPSB
Frame	404T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	CSA UR CSA EEV
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	263.000 A @ 200.0 V 264.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
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	263.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	44E193
Base	
Status	NLA/A
Elec. spec.	44WGW087
Layout	44LYE193
Eff. date	01-21-2019
CD Diagram	CD0695
Poles	04
Leads	6#2
Proprietary	False
Created date	08-07-2009

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4476M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.97 IN
Power Factor	85
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	2.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 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

NP2138L																
CAT.NO.	EM2555T-8				P/N					ENCLOSURE		OPSB				
SPEC.	44E193W087G1			CC	010A		FRAME		404T		S/N					
HP	100				CLASS		F		HZ		60					
RPM	1780				PH	3		DES		B						
VOLT	200				KVA-CODE					G		ODE BRG		6312	DE BRG	6316
AMP	263															
RATING	40C AMB-CONT					GREASE		POLYREX EM								
NEMA-NOM-EFF	95.4	PF	85	SER.F.		1.15										
HTR-VOLTS	HTR-AMPS															

Accessories

Part number	Description	Multiplier
44-1402	C FACE KIT 44/404-5UC TC 6316 BRG	A8

AC Induction Motor Performance Data

Record # 13915

Typical performance - not guaranteed values

Winding: 44WGW087-R001			Type: 4476M		Enclosure: OPSB	
Nameplate Data			200 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		100	Full Load Torque		295 LB-FT	
Volts		200	Start Configuration		direct on line	
Full Load Amps		263	Breakdown Torque		843 LB-FT	
R.P.M.		1780	Pull-up Torque		409 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	500 LB-FT	
NEMA Design Code	B	KVA Code	G	Starting Current	1745 A	
Service Factor (S.F.)		1.15	No-load Current		93.5 A	
NEMA Nom. Eff.	95.4	Power Factor	85	Line-line Res. @ 25°C	0.0091 Ω	
Rating - Duty		40C	AMB-CONT	Temp. Rise @ Rated Load	40°C	
S.F. Amps				Temp. Rise @ S.F. Load	53°C	
				Locked-rotor Power Factor	25	
				Rotor inertia	14.4 LB-FT2	

Load Characteristics 200 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	79	86	86	86	86
Efficiency	93.1	95.4	95.8	95.6	95.2	94.5	95.4
Speed	1796	1791	1786	1781	1775	1769	1777
Line amperes	126	164	214	263	329	393	302.6

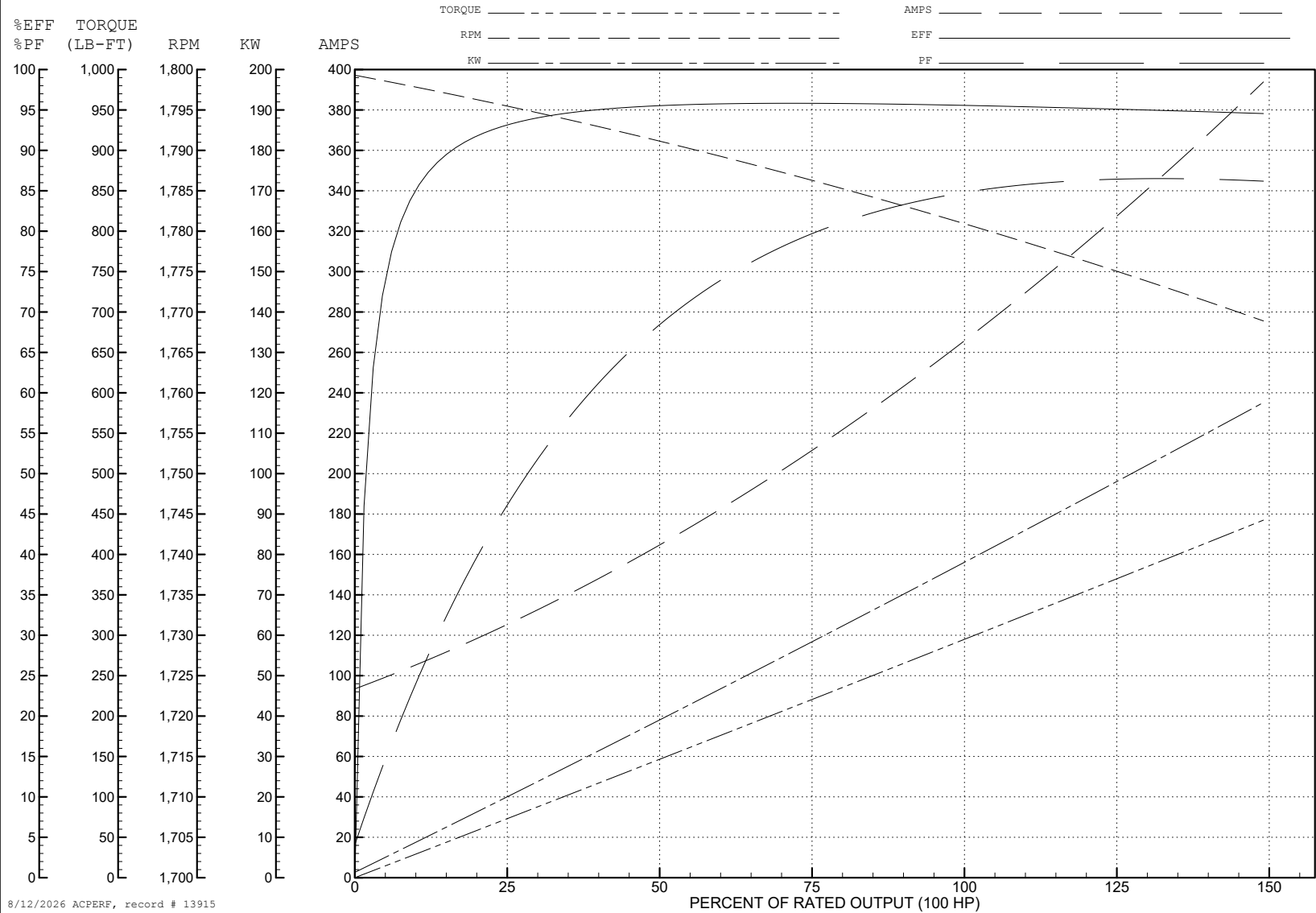
ABB Motors and Mechanical Inc.

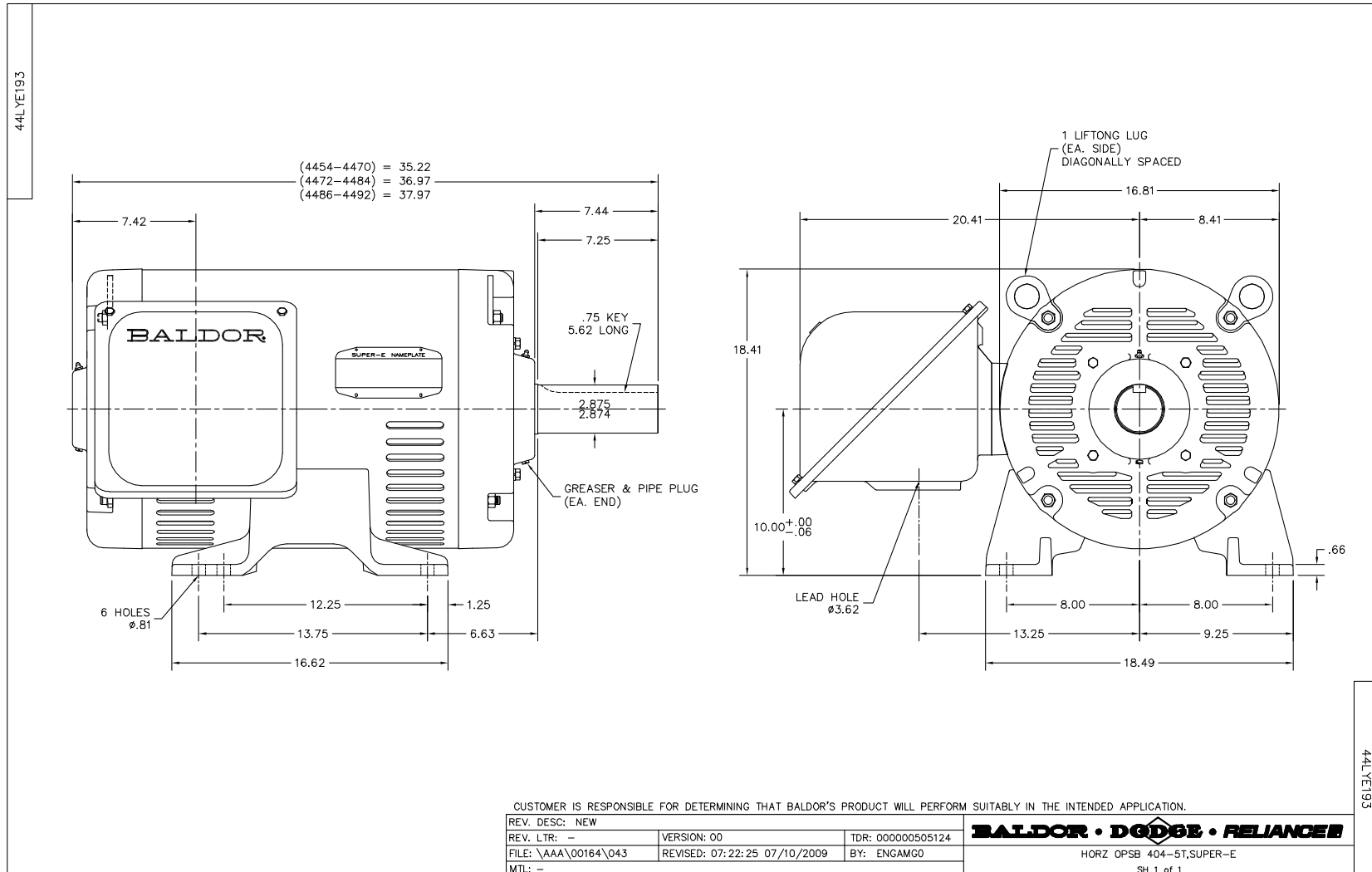
WINDING # 44WGW087

Typical performance - not guaranteed values.

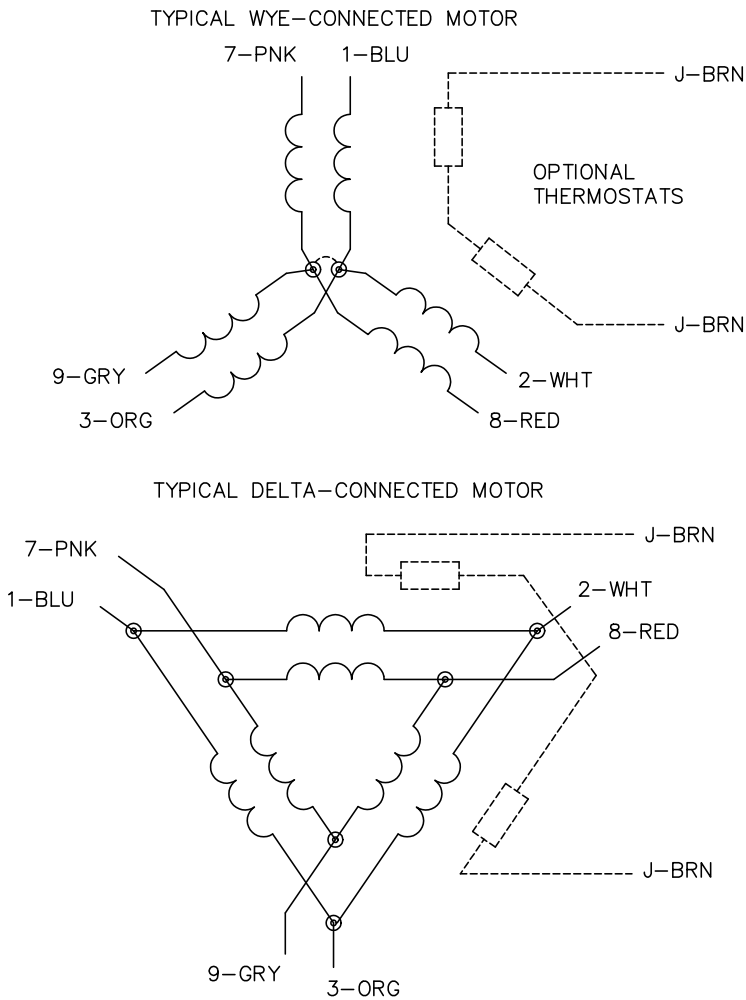
100 HP 3 PH 60 HZ 1780 RPM 200 V 4476M

TORQUES (LB-FT): PO=843 PU=409 LR=500 LRA=1745

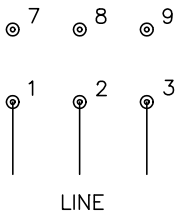




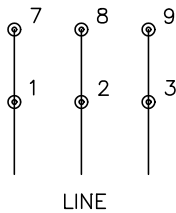
CD0695



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