ABB BALDOR RELIANCE

Customer information packet

EM2555T-8

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

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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. @ 25ºC**	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

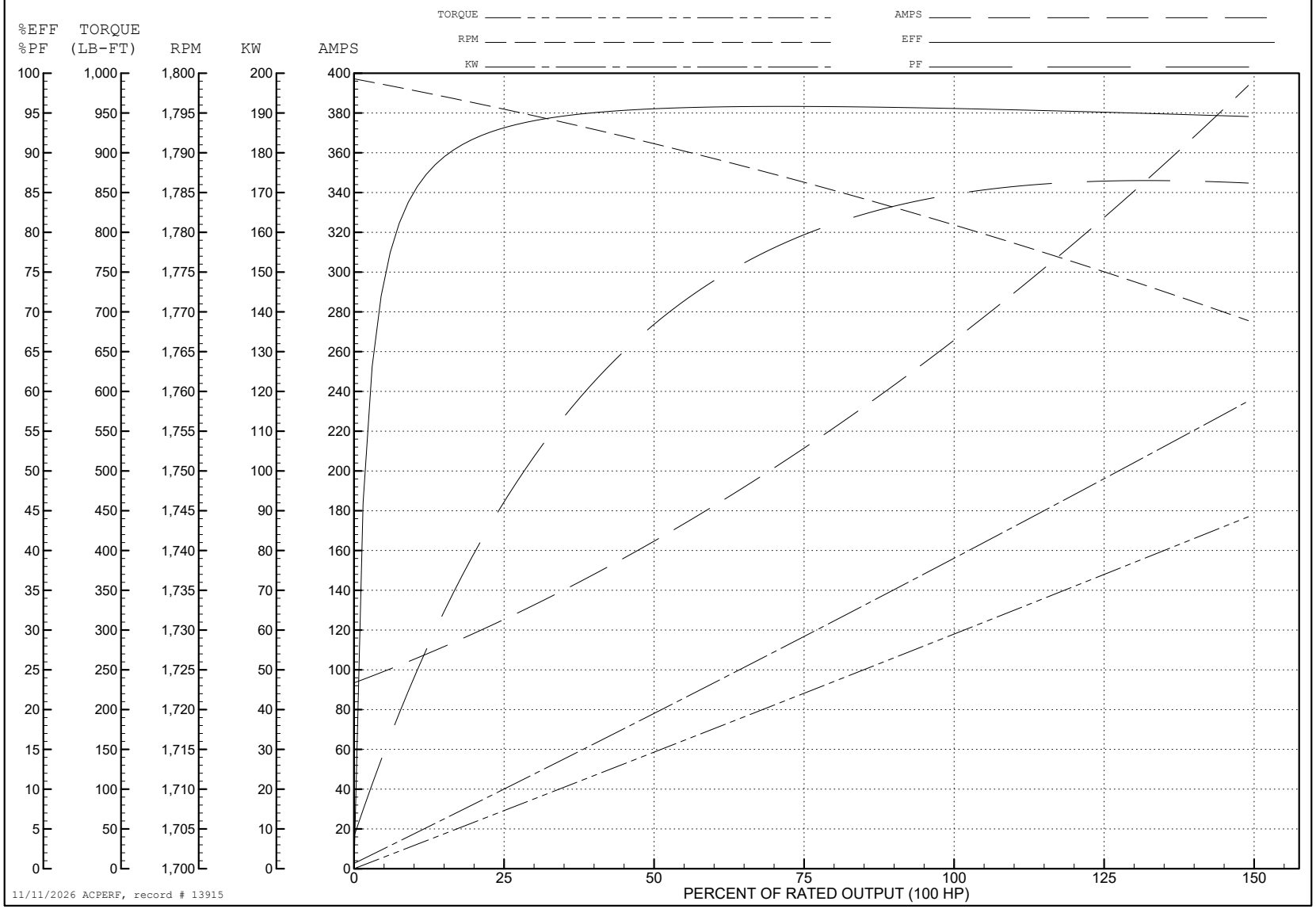
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	69	79	86	86	86	86
Efficiency	93.1	95.4	95.8	95.6	95.2	94.5	95.4
Speed	1796	1791	1786	1781	1775	1769	1777
Line amperes	126	164	214	263	329	393	302.6

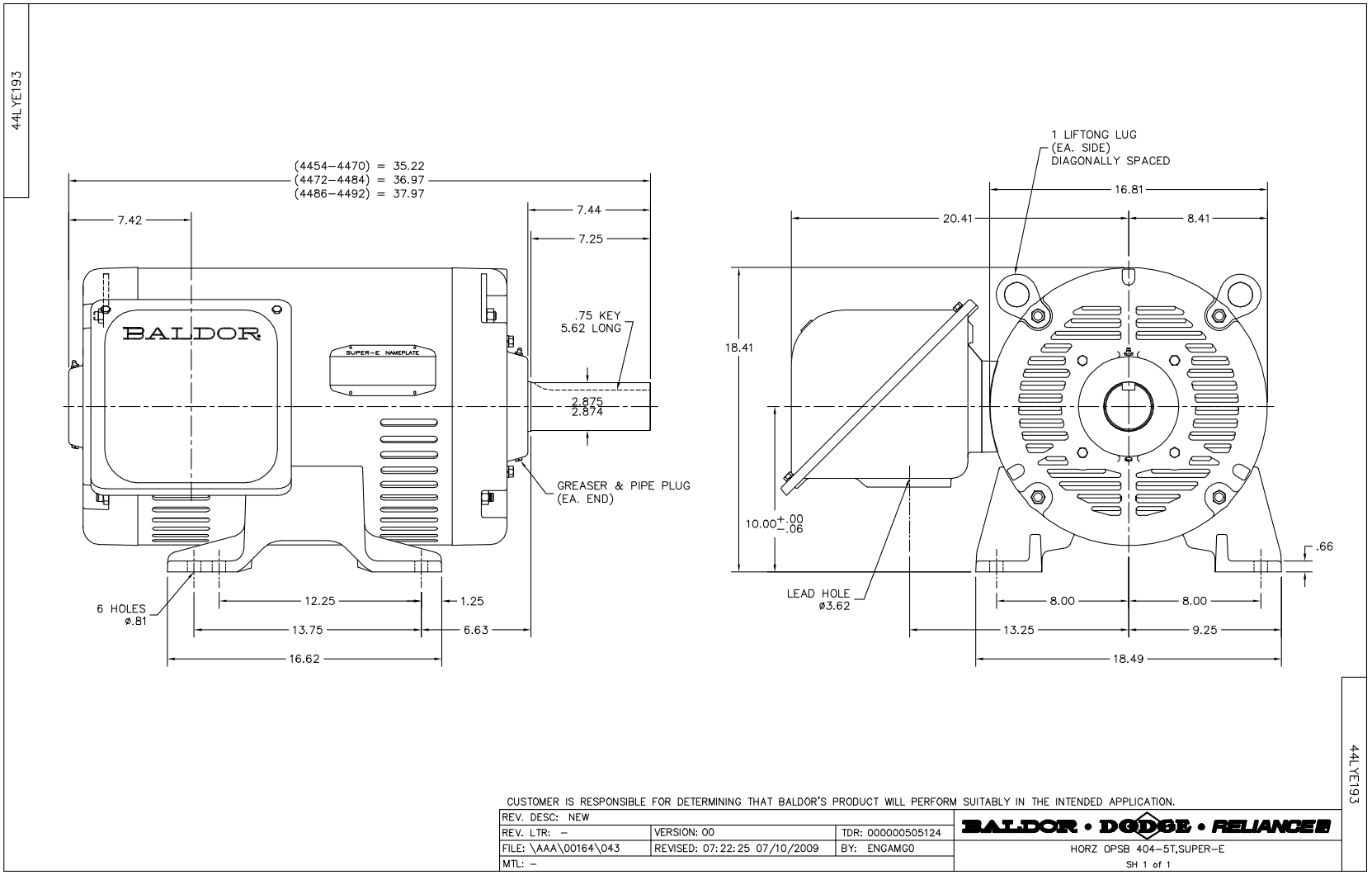
ABB Motors and Mechanical Inc.

WINDING # 44WGW087

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

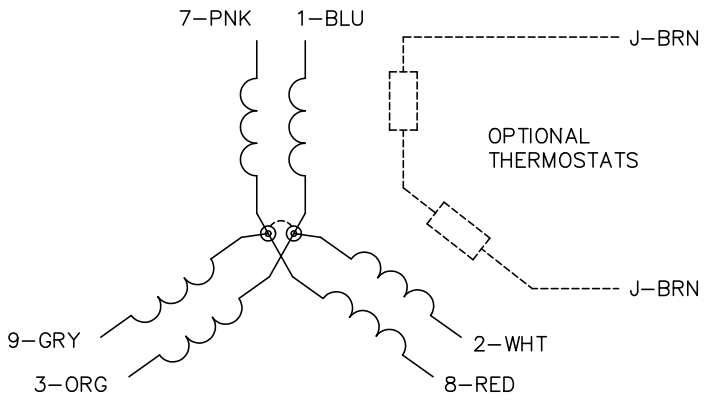
TORQUES(LB-FT): PO=843 PU=409 LR=500 LRA=1745



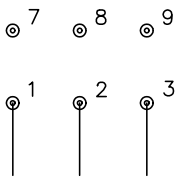

44LYE193
(4454–4470) = 35.22
(4472–4484) = 36.97
(4486–4492) = 37.97
7.42
7.44
7.25
.75 KEY
5.62 LONG
BALDOR
SUPER–E NAMEPLATE
2.875
2.874
GREASER & PIPE PLUG
(EA. END)
6 HOLES
ø.81
12.25
1.25
13.75
6.63
16.62
1 LIFTONG LUG
(EA. SIDE)
DIAGONALLY SPACED
16.81
20.41
8.41
18.41
10.00 +.00 –.06
.66
LEAD HOLE
ø3.62
8.00
8.00
13.25
9.25
18.49
44LYE193
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000000505124
FILE: \AAA\00164\043
REVISED: 07:22:25 07/10/2009
BY: ENGAMGO
MTL: –
BALDOR • DODGE • RELIANCE
HORZ OPSB 404–5T,SUPER–E
SH 1 of 1

CD0695

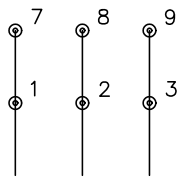
TYPICAL WYE–CONNECTED MOTOR



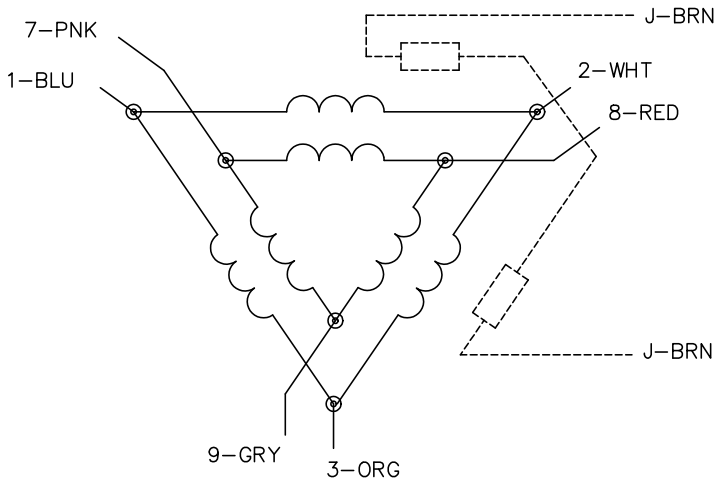
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



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.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START