

BALDOR® • RELIANCE™

Customer information packet

EM2555T-4

100HP, 1780RPM, 3PH, 60HZ, 404T, 4484M, 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	460.0 V @ 60 HZ
Agency Approvals	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	118.000 A @ 460.0 V
Design Code	A
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	118.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part detail

Revision	E
Type	AC
Mech. spec.	44E192
Base	
Status	PRD/A
Elec. spec.	44WGW390
Layout	44LYE192
Eff. date	11-29-2023
CD Diagram	CD0382
Poles	04
Leads	6#4
Proprietary	False
Created date	08-31-2017

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4484M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.97 IN
Power Factor	83
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	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138LUA

CAT.NO.	EM2555T-4	P/N		ENCLOSURE	OPSB
SPEC.	44E192W390G1	CC	010A	FRAME	404T
HP	100	CLASS	F	HZ	60
RPM	1780	PH	3	DES	A
VOLT	460	KVA-CODE	H	ODE BRG	6312
AMP	118	DE BRG			6316
RATING	40C AMB-CONT	GREASE	POLYREX EM		
NEMA-NOM-EFF	95.4	PF	83	SER.F.	1.15
HTR-VOLTS	50HZ 100HP 380V 139A SF1.0				
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 # 66623

Typical performance - not guaranteed values

Winding: 44WGW390-R001		Type: 4484M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	100	Full Load Torque	295 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	118	Breakdown Torque	884 LB-FT		
R.P.M.	1780	Pull-up Torque	375 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	498 LB-FT	
NEMA Design Code	A KVA Code	H	Starting Current	852 A	
Service Factor (S.F.)	1.15	No-load Current	46.4 A		
NEMA Nom. Eff.	95.4 Power Factor	83	Line-line Res. @ 25°C	0.045551 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	47°C		
S.F. Amps		Temp. Rise @ S.F. Load	57°C		
		Locked-rotor Power Factor	25.4		
		Rotor inertia	15.9 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	70	79	83	85	86	84
Efficiency	92.6	95.3	95.7	95.6	95.2	94.6	95.4
Speed	1794	1789.8	1785.5	1780.7	1775.5	1769.8	1778
Line amperes	54.2	70.6	92.8	118	145	173	134

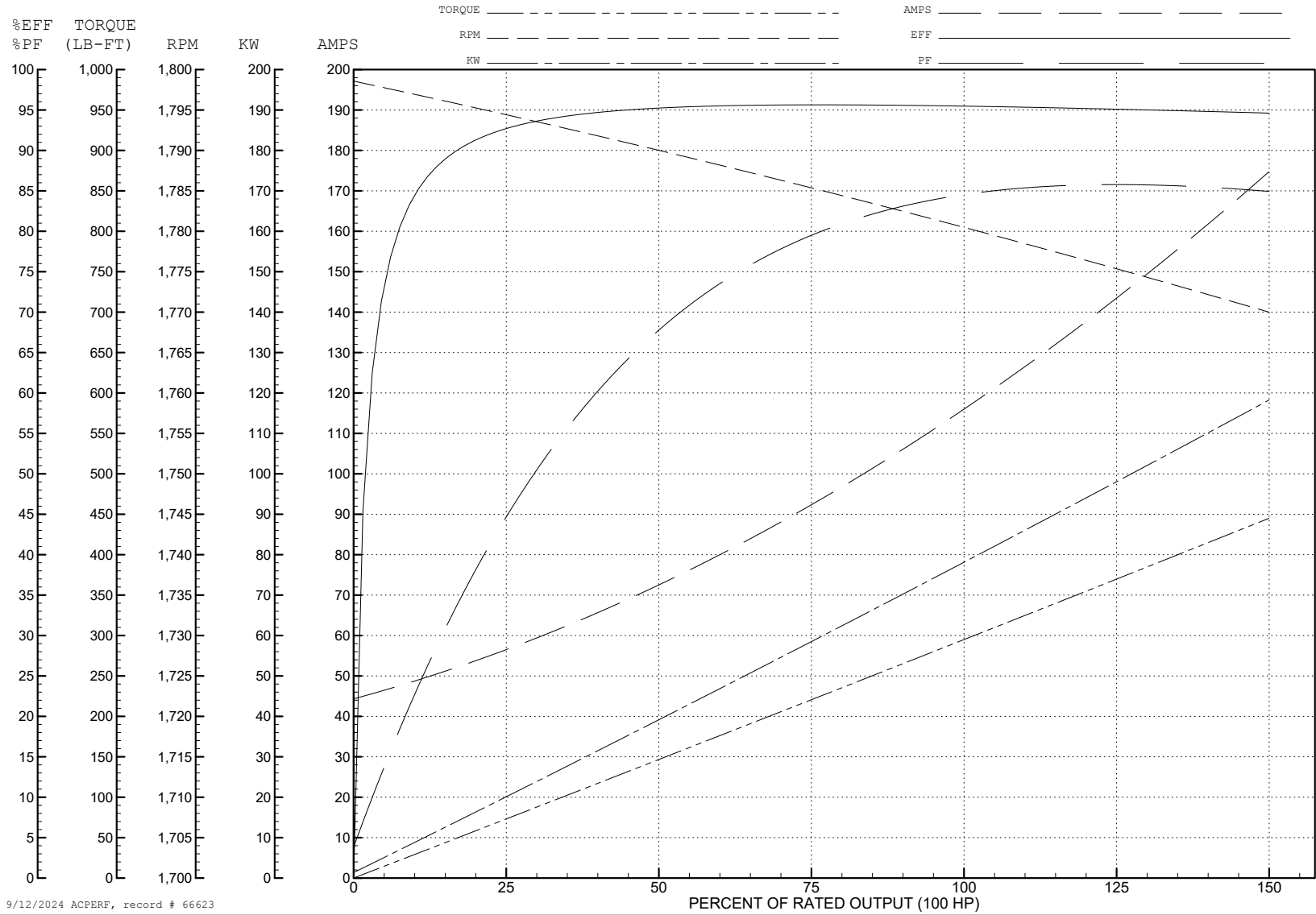
ABB Motors and Mechanical Inc.

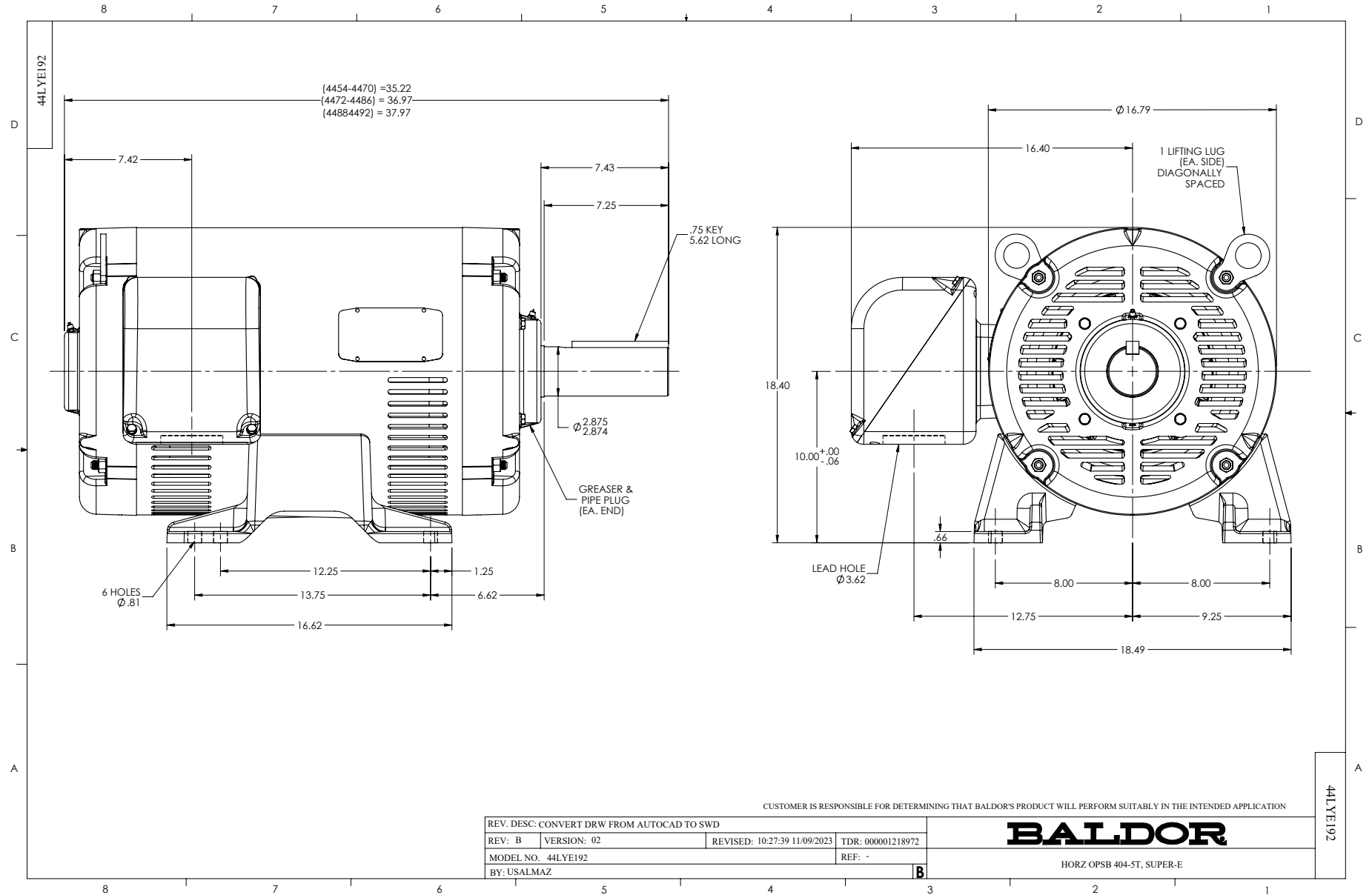
WINDING # 44WGW390

Typical performance - not guaranteed values.

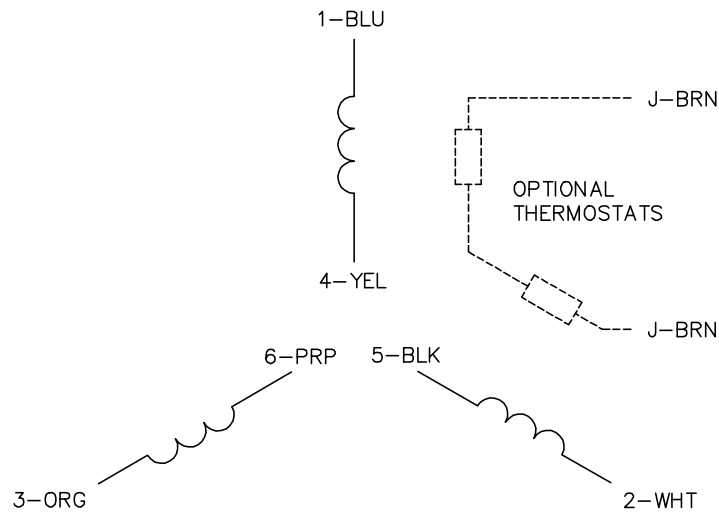
100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

TORQUES (LB-FT): PO=884 PU=375 LR=498 LRA=852

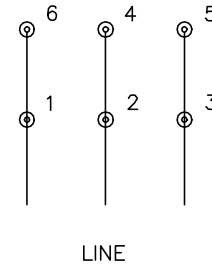




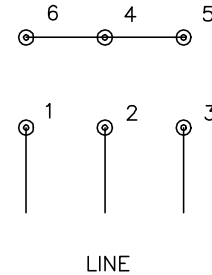
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RUN CONNECTION (1D)



START CONNECTION (1Y)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
5. FOR ACROSS-THE-LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, SV, 6 LEADS, Y START/D RUN

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