ABB BALDOR RELIANCE

Customer information packet

EM2559T-5

125HP, 1775RPM, 3PH, 60HZ, 405T, 4488M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	405T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	114.000 A @ 575.0 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	114.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	V
Type	AC
Mech. spec.	44E195
Base	
Status	PRD/A
Elec. spec.	44WGW176
Layout	44LYE195
Eff. date	05-14-2026
CD Diagram	CD0006
Poles	04
Leads	3#4
Proprietary	False
Created date	08-07-2009

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.47 IN
Power Factor	86
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	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
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.	EM2559T-5			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	44E195W176G2	**CC**	010A		**FRAME**	405T		**S/N**				
HP	125			**CLASS**	F	**HZ**	60					
RPM	1775			**PH**	3	**DES**	B					
VOLT	575					**KVA-CODE**	G	**ODE BRG**	6312	**DE BRG**	6316	
AMP	114											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	95.4	**PF**	86	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 24137
Typical performance - not guaranteed values

Winding: 44WGW176-R001	**Type:** 4488M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			125	**Full Load Torque**	369 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			114	**Breakdown Torque**	1030 LB-FT
R.P.M.			1775	**Pull-up Torque**	468 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	556 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	752 A
Service Factor (S.F.)			1.15	**No-load Current**	39 A
NEMA Nom. Eff.	95.4	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.0581 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	25
				Rotor inertia	16.6 LB-FT2

Load Characteristics 575 V, 60 Hz, 125 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	84	86	87	86	87
Efficiency	93.3	95.6	95.7	95.4	94.9	94.1	95.1
Speed	1794	1789	1783	1777	1770	1763	1773
Line amperes	47	65.5	88.9	115	143	173	132

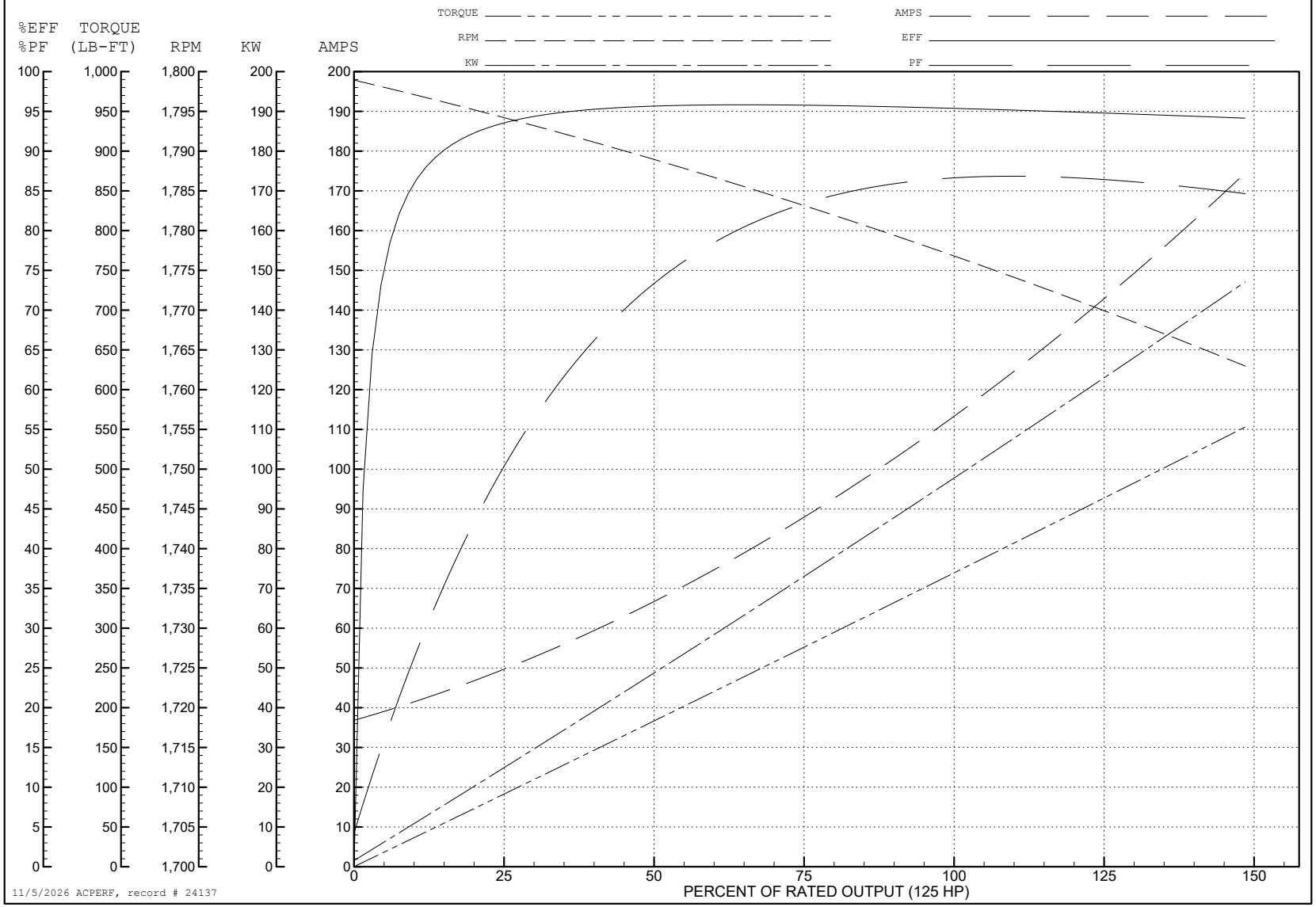
ABB Motors and Mechanical Inc.

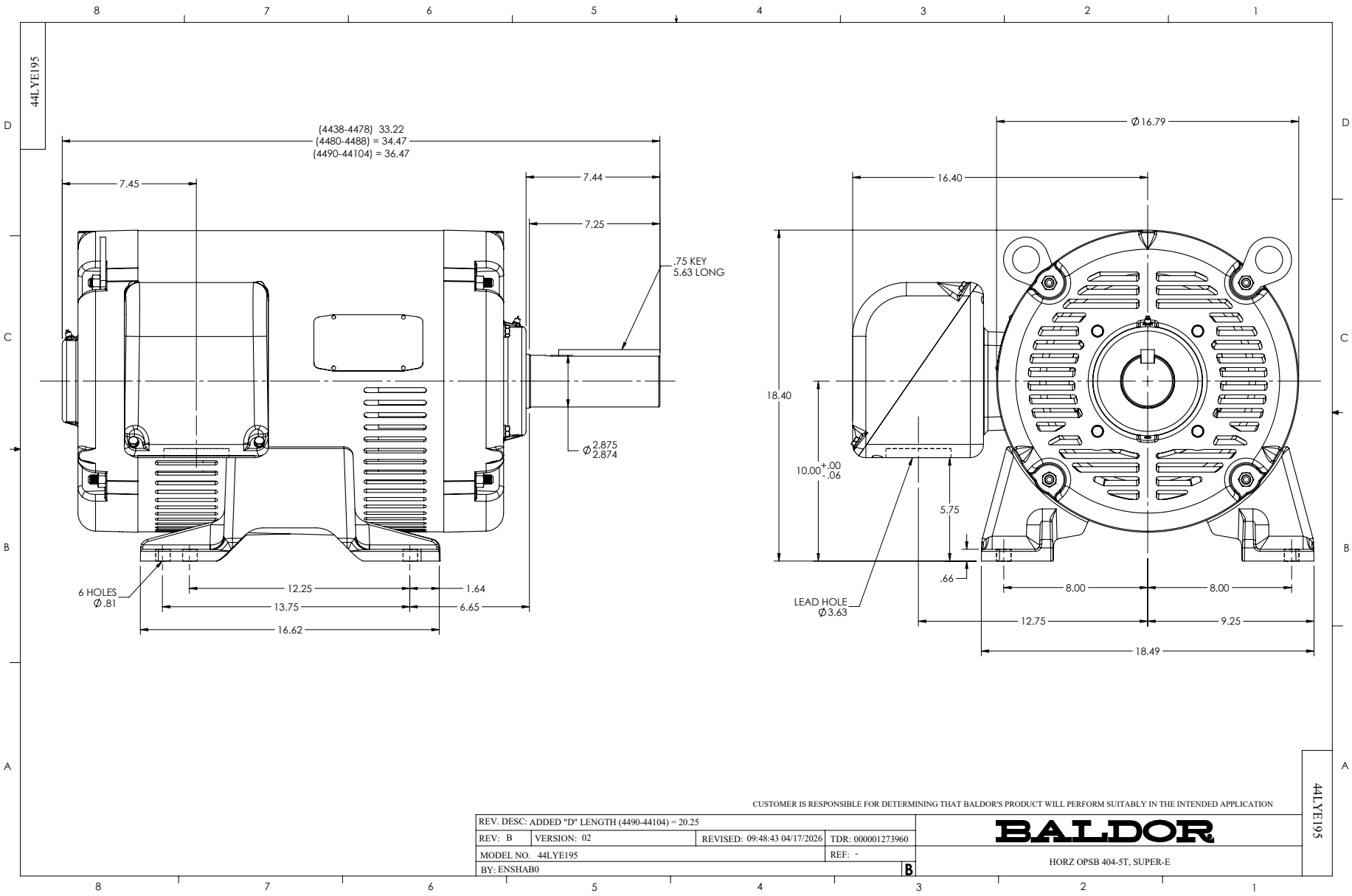
WINDING # 44WGW176

125 HP 3 PH 60 HZ 1775 RPM 575 V 4488M

Typical performance - not guaranteed values.

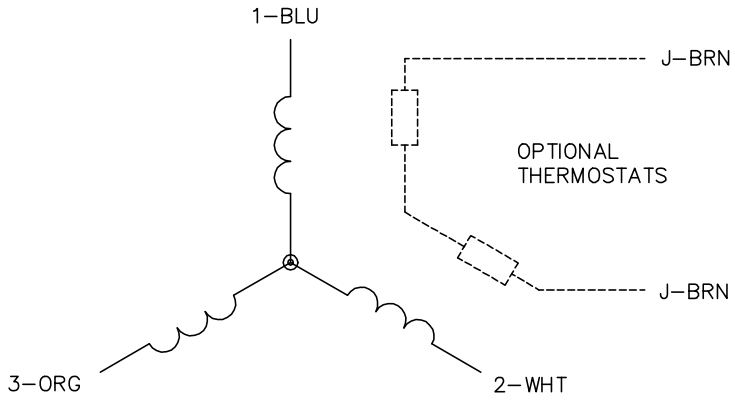
TORQUES(LB-FT): PO=1030 PU=468 LR=556 LRA=752

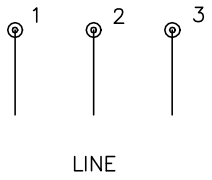



44LYE195
(4438-4478) 33.22
(4480-4488) = 34.47
(4490-44104) = 36.47
7.45
7.44
7.25
.75 KEY
5.63 LONG
Ø2.875
2.874
6 HOLES
Ø.81
12.25
1.64
13.75
6.65
16.62
Ø16.79
16.40
18.40
10.00 +.00 -.06
5.75
.66
LEAD HOLE
Ø3.63
8.00
8.00
12.75
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED "D" LENGTH (4490-44104) = 20.25
REV: B
VERSION: 02
REVISED: 09:48:43 04/17/2026
TDR: 000001273960
MODEL NO. 44LYE195
REF: -
BY: ENSHAB0
B
BALDOR
HORZ OPSB 404-5T, SUPER-E
44LYE195

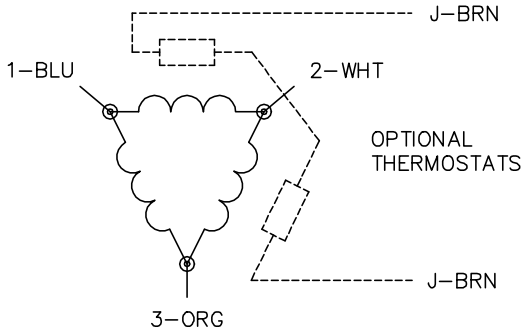
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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