ABB BALDOR RELIANCE

Customer information packet

EM2546T

60HP, 3540RPM, 3PH, 60HZ, 326TS, 4250M, OPSB, F

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11/19/2026 12:11:59 AM

Specifications

Enclosure	OPSB
Frame	326TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	136.000 A @ 230.0 V
	68.000 A @ 460.0 V
Design Code	B
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	68.0 a
Insulation Class	F

Part Detail

Revision	AD
Type	AC
Mech. spec.	42F58
Base	
Status	PRD/A
Elec. spec.	42WGW410
Layout	42LYF058
Eff. date	11-06-2025
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	10-15-2010

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.19 IN
Power Factor	89
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	No Slinger
Speed	3540 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

NP3554LUA												
CAT.NO.	EM2546T			**P/N**						**ENCL**	OPSB	
SPEC.	42F058W410G1	**CC**	010A	**FRAME**	326TS		**SER.NO.**					
HP	60	**CLASS**	F	**HZ**	60							
RPM	3540	**PH**	3	**DES**	B							
VOLTS	230/460	**CODE**	G	**ODE BRG**	6311	**DE BRG**	6312					
AMPS	136/68											
RATING	40C AMB-CONT	**NEMA-NOM-EFF**	93.6	**GREASE**	POLYREX EM							
PF	89	**SER.F.**	1.15	**CT30-60(2:1) VT3-60(20:1)**								
USABLE AT	50HZ 60HP 190/380V 160/80A		SF 1.0									
HTR-VOLTS	**HTR-AMPS**	**MAX. SPACE HEATER TEMP.**										

Accessories

Part number	Description	Multiplier
42-1300	C FACE KIT	A8
42EP1601A01	SP'L D-FLANGE MTD. PU. E.P. MDL.42 W/BFL	P1

AC Induction Motor Performance Data
Record # 33331
Typical performance - not guaranteed values

Winding: 42WGW410-R001	**Type:** 4250M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			60	**Full Load Torque**	88.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			136/68	**Breakdown Torque**	304 LB-FT
R.P.M.			3540	**Pull-up Torque**	91.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	128 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	443 A
Service Factor (S.F.)			1.15	**No-load Current**	17.7 A
NEMA Nom. Eff.	93.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.09668 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	82	88	90	90	89	90
Efficiency	90.7	93.7	94.2	93.9	93.3	92.5	93.5
Speed	3585.3	3574.5	3562.4	3549.9	3535.7	3520.5	3541
Line amperes	24.4	36.9	51.5	66.9	83.7	102	77

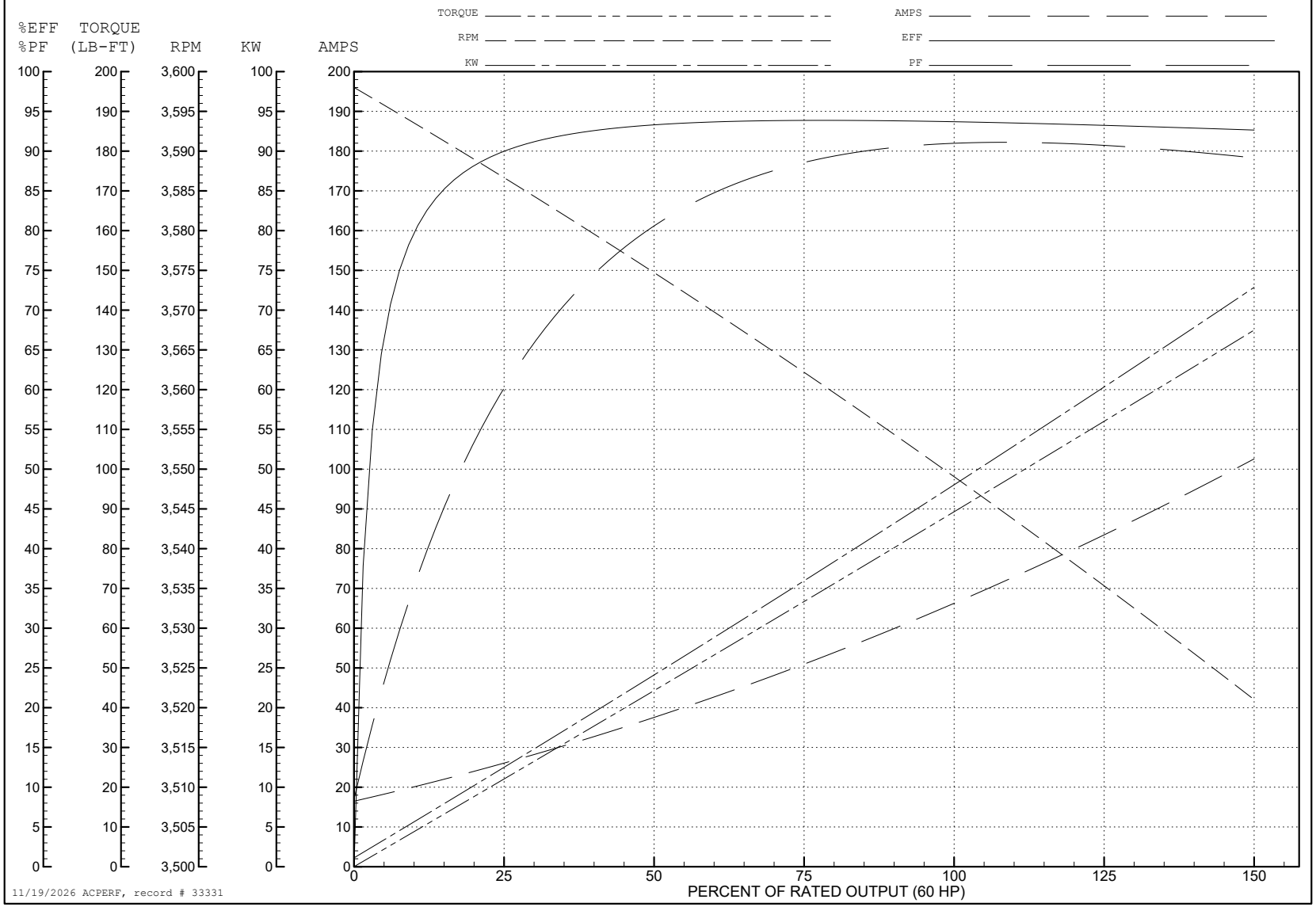
ABB Motors and Mechanical Inc.

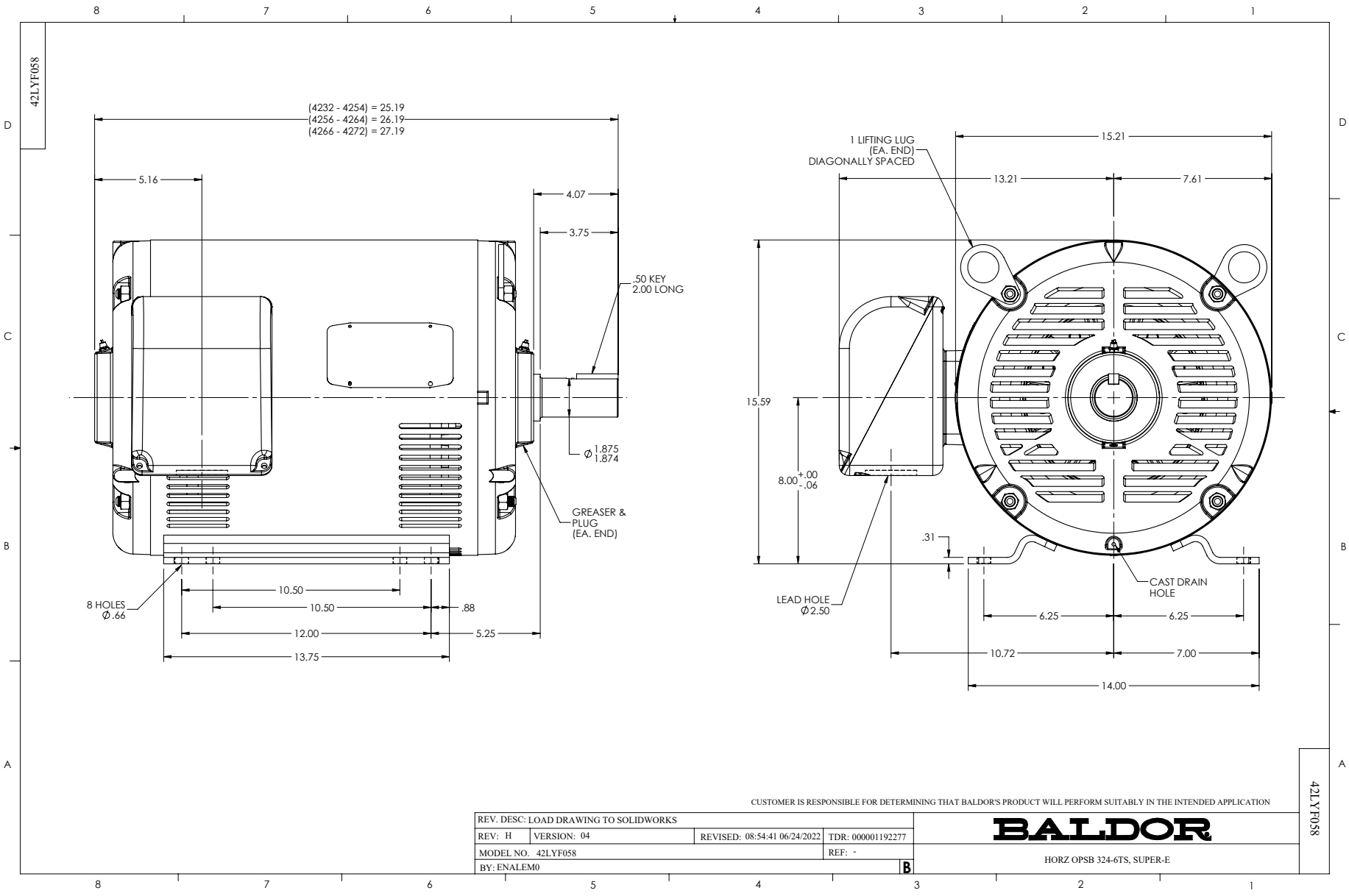
WINDING # 42WGW410

60 HP 3 PH 60 HZ 3540 RPM 460 V 4250M

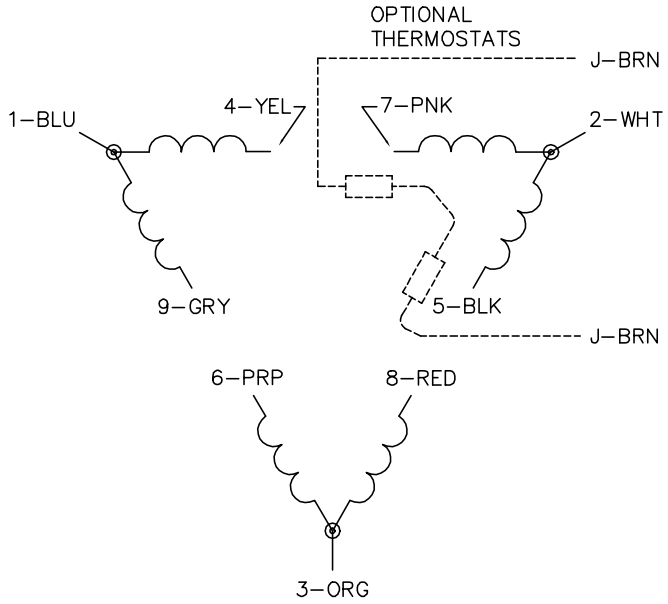
Typical performance - not guaranteed values.

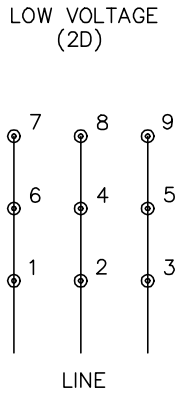
TORQUES(LB-FT): PO=304 PU=91.4 LR=128 LRA=443

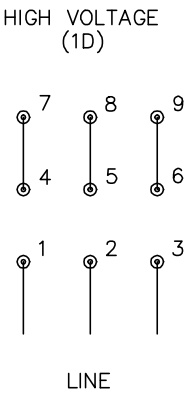



42LYF058
(4232 - 4254) = 25.19
(4256 - 4264) = 26.19
(4266 - 4272) = 27.19
5.16
4.07
3.75
.50 KEY
2.00 LONG
Ø 1.875
1.874
GREASER &
PLUG
(EA. END)
8 HOLES
Ø.66
10.50
10.50
.88
12.00
5.25
13.75
1 LIFTING LUG
(EA. END)
DIAGONALLY SPACED
15.21
13.21
7.61
15.59
8.00 +.00 -.06
.31
LEAD HOLE
Ø2.50
CAST DRAIN
HOLE
6.25
6.25
10.72
7.00
14.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: H
VERSION: 04
REVISED: 08:54:41 06/24/2022
TDR: 000001192277
MODEL NO. 42LYF058
REF: -
BY: ENALEM0
B
BALDOR
HORZ OPSB 324-6TS, SUPER-E
42LYF058

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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