

ABB BALDOR RELIANCE III

Customer information packet

EM2546T

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

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.									

Parts List

Part number	Description	Quantity
SA011227	SA 42F058W410G1	1.000 ea
RA007455	RA 42F058W410G1	1.000 ea
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
42EP3200A01	FR ENDPLATE, MACH	1.000 ea
HW5100A13	W4627-047 WVY WSHR	1.000 ea
42EP3200B02	PU ENDPLATE, MACH	1.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.080 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3151A02	THRUBOLT STUD 1/2-13 X 19.25	4.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP3554LUA	SS SUPER-E VPWM INV READY,CURUS-EEV,PREM	1.000 ea
42PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea

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	Locked-rotor Torque	128 LB-FT
NEMA Design Code	B KVA Code	Starting Current	443 A
Service Factor (S.F.)	1.15	No-load Current	17.7 A
NEMA Nom. Eff.	93.6 Power Factor	Line-line Res. @ 25°C	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

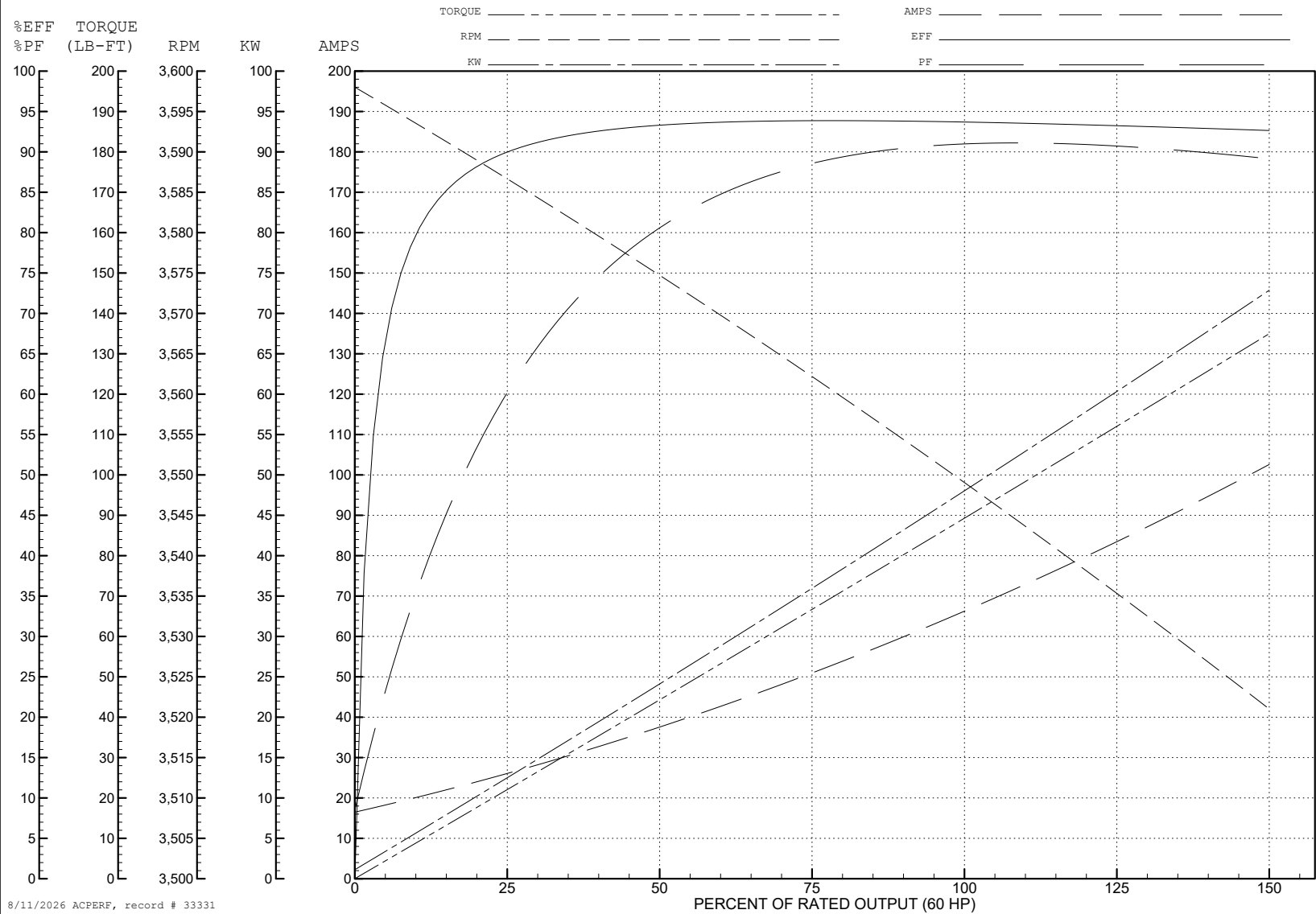
ABB Motors and Mechanical Inc.

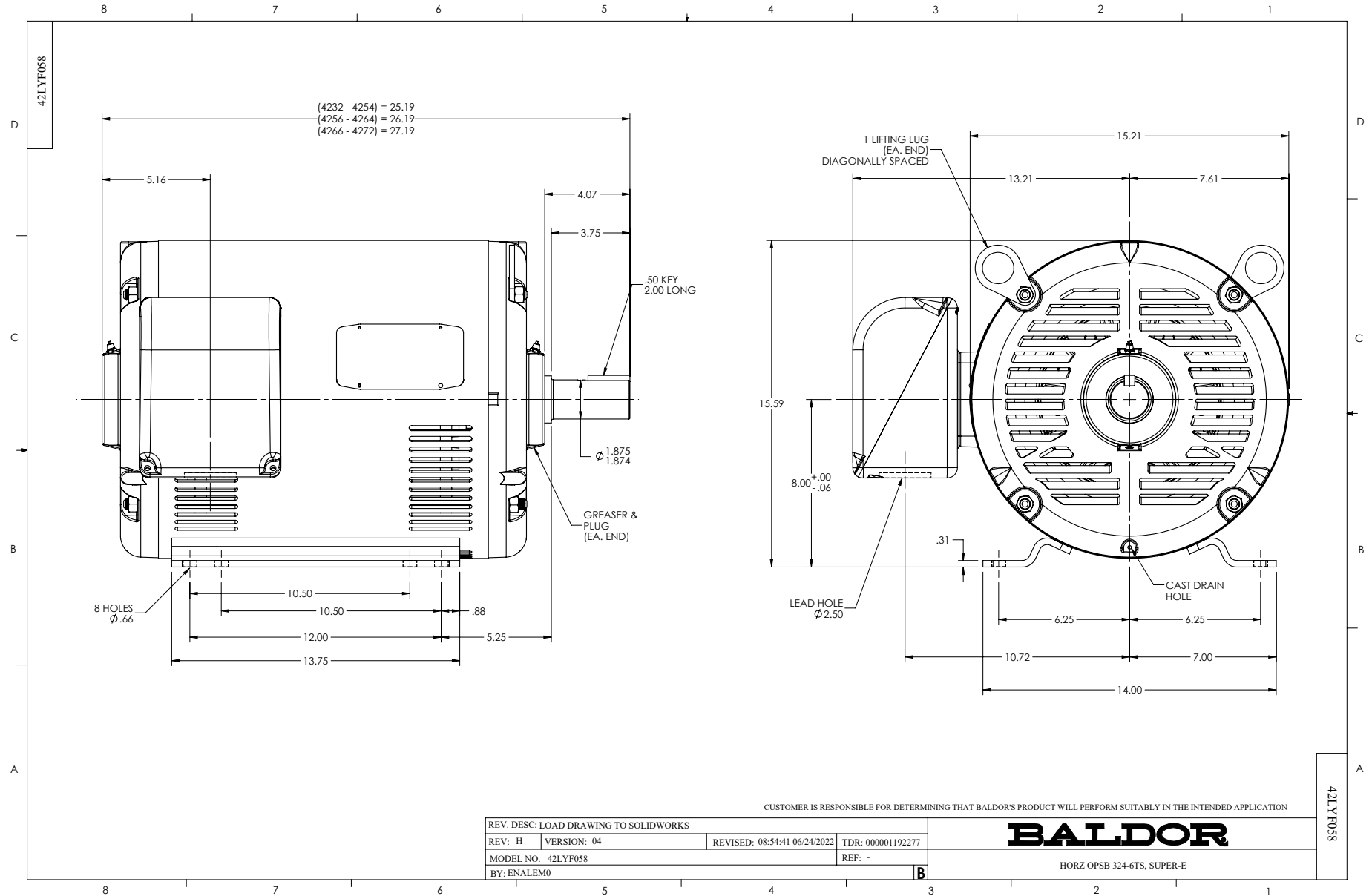
WINDING # 42GW410

Typical performance - not guaranteed values.

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

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





CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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