

ABB BALDOR RELIANCE III

Customer information packet CEM2546T

60HP, 3540RPM, 3PH, 60HZ, 326TSC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	326TSC
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	CURUSEEV NEMA PREMIUM
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	68.000 A @ 460.0 V 136.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGW410
Layout	42LYF069
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	03-06-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP2138L																	
CAT.NO.	CEM2546T				P/N						ENCLOSURE		OPSB				
SPEC.	42-0000-0074			CC	010A		FRAME		326TSC		S/N						
HP	60				CLASS		F		HZ		60						
RPM	3540				PH	3		DES		A							
VOLT	230/460								KVA-CODE		G		ODE BRG		6311	DE BRG	6312
AMP	136/68																
RATING	40C AMB-CONT						GREASE		POLYREX EM								
NEMA-NOM-EFF	93.6	PF	89	SER.F.		1.15											
HTR-VOLTS	HTR-AMPS																

Parts List

Part number	Description	Quantity
SA379771	SA 42-0000-0074	1.000 ea
RA369794	RA 42-0000-0074	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP2138L	ALUM SUPER-E UL PREM CC (300	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
HA3151A02	THRUBOLT STUD 1/2-13 X 19.25	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT, .879 OD, .509 I	8.000 ea
XY5013A12	NUT, 1/2-13, HEX, STEEL, ZINC PLATED	8.000 ea
42EP3200A01	FR ENDPLATE, MACH	1.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
42EP1300A20	PU ENDPLATE, MACH	1.000 ea
HA1005A06	SLINGER, OD 3.62, ID 2.15	1.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
10CB3001A31	KOBX, MACH W/2.50 LD HL, .38-16 GND	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
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 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
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.125 ga
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 ea

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. @ 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

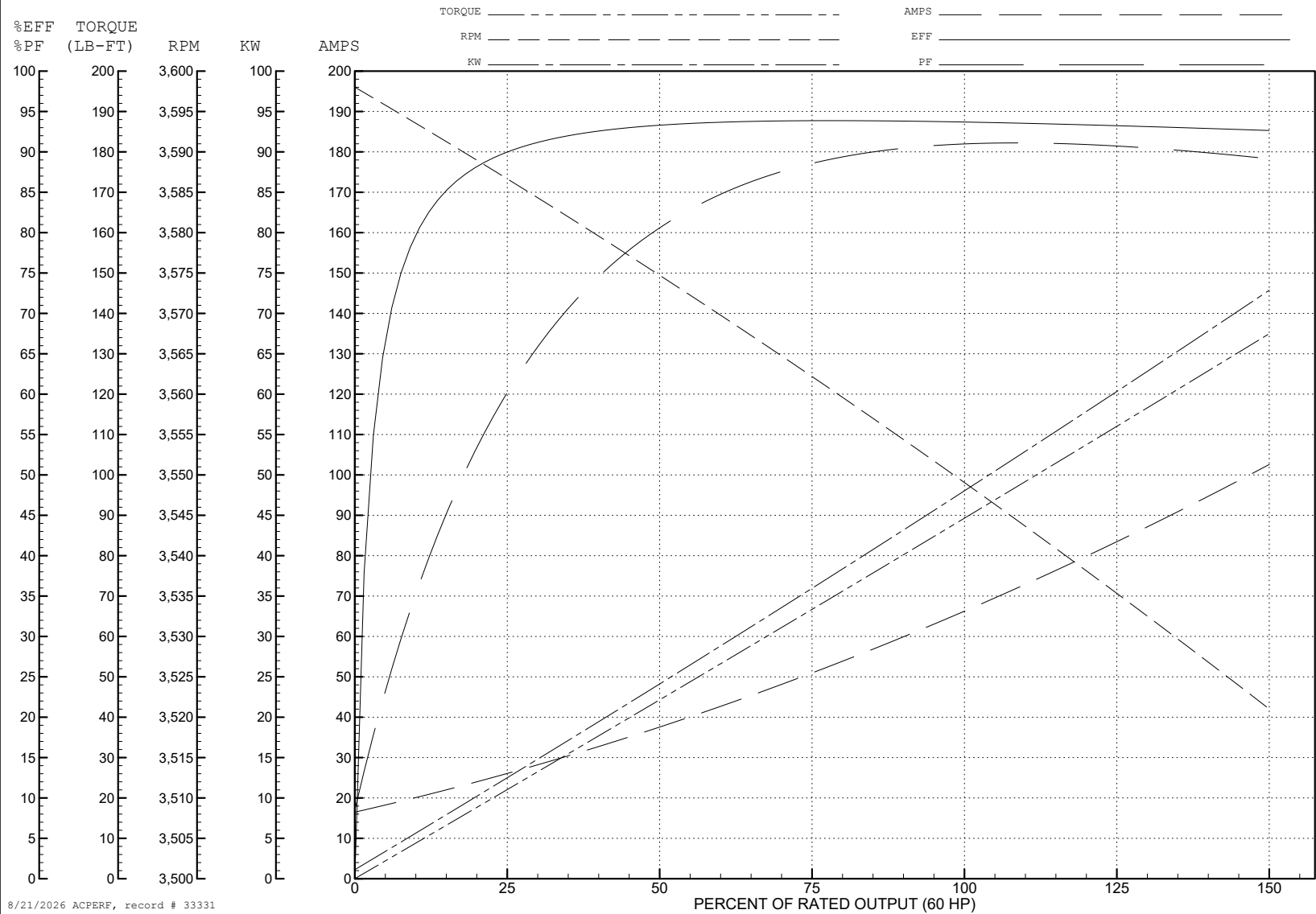
ABB Motors and Mechanical Inc.

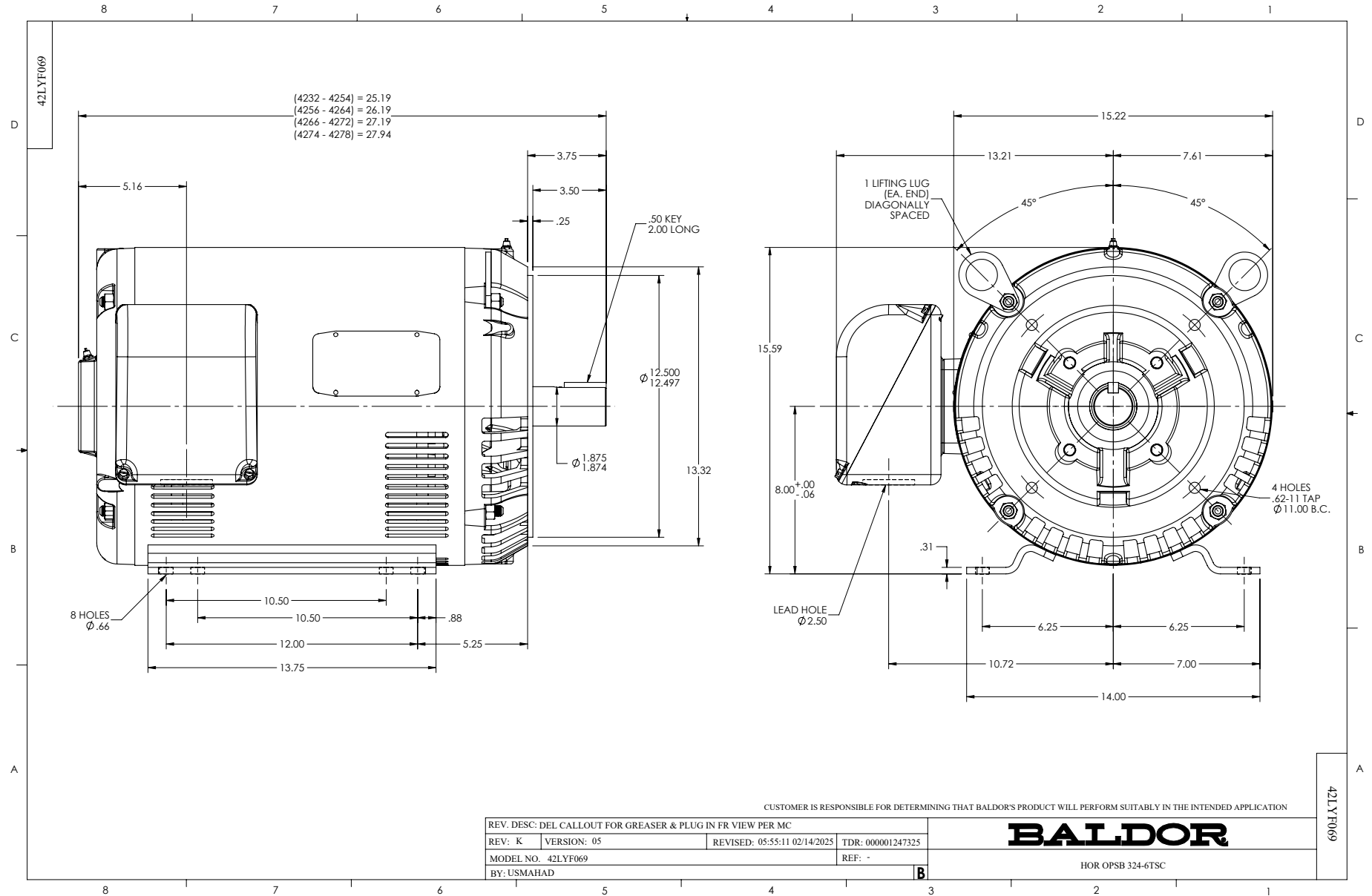
WINDING # 42WG410

Typical performance - not guaranteed values.

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

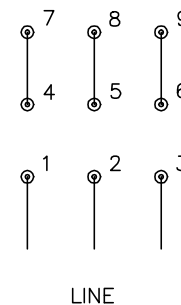
TORQUES (LB-FT): PO=304 PU=91.4 LR=128 LRA=443





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.

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

SH 1 of 1

CD0180