

ABB BALDOR RELIANCE III

Customer information packet

CEM2547T-G

60HP, 1775RPM, 3PH, 60HZ, 364TC, OPSB, F1

Specifications

Enclosure	OPSB
Frame	364TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a
Insulation Class	H
Inverter Code	Inverter Ready

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGW587
Layout	42LY-000-019
Eff. date	05-29-2025
CD Diagram	CD0180
Poles	04
Leads	9#6
Proprietary	False
Created date	08-21-2019

IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4278M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.75 IN
Power Factor	87
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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

NP3554LUA												
CAT.NO.	CEM2547T-G				P/N						ENCL	OPSB
SPEC.	42-0000-0049	CC	010A	FRAME		364TC	SER.NO.					
HP	60		CLASS		H	HZ	60					
RPM	1775		PH	3	DES		A					
VOLTS	230/460			CODE		H	ODE BRG	6311	DE BRG	6313		
AMPS	138/69											
RATING	40C AMB-CONT		NEMA-NOM-EFF				95	GREASE	POLYREX EM			
PF	86	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)							
USABLE AT	50HZ 50HP 190/380V 140/70A				SF1.0							
HTR-VOLTS	HTR-AMPS	MAX. SPACE HEATER TEMP.										

Parts List

Part number	Description	Quantity
SA373558	SA 42-0000-0049	1.000 ea
RA363365	RA 42-0000-0049	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP3554LUA	SS SUPER-E VPWM INV READY,CURUS-EEV,PREM	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
HA3151A12	THRUBOLT STUD 1/2-13 X 23.00	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	8.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	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
42EP1400A01	PUEP MACH,	1.000 ea
10XN3816K52	3/8-16 X 3-1/4 HEX HEAD CAP SCREW GRD 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 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
BP5315	SHAFT GRD BOLT THROUGH (SGR-77.9-3FH)	1.000 ea
10CB1000A385	CONDUIT BOX, 2.50 LEAD HOLE, .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
10CB1500	STANDARD 10 FRAME CONDUIT BOX LID, CAST	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.125 ga
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
40PA1010	PACKAGING GROUP, PRINT PK1151A06	1.000 ea
HW2501J36	KEY, 5/8 SQ X 4.250	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 17314

Typical performance - not guaranteed values

Winding: 42WGW587-R005			Type: 4278M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		60	Full Load Torque		178 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		138/69	Breakdown Torque		584 LB-FT		
R.P.M.		1775	Pull-up Torque		285 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		311 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		514 A
Service Factor (S.F.)		1.15	No-load Current		25.4 A		
NEMA Nom. Eff.		95	Power Factor	86	Line-line Res. @ 25°C		0.0911 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		38°C
S.F. Amps					Temp. Rise @ S.F. Load		46°C
					Locked-rotor Power Factor		26.2
					Rotor inertia		10.4 LB-FT2

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	81	85	86	87	86
Efficiency	92.4	94.9	95.3	95	94.6	93.9	94.8
Speed	1794	1789	1784	1779	1774	1768	1776
Line amperes	30.4	41	54.7	69.9	86.2	103	79.7

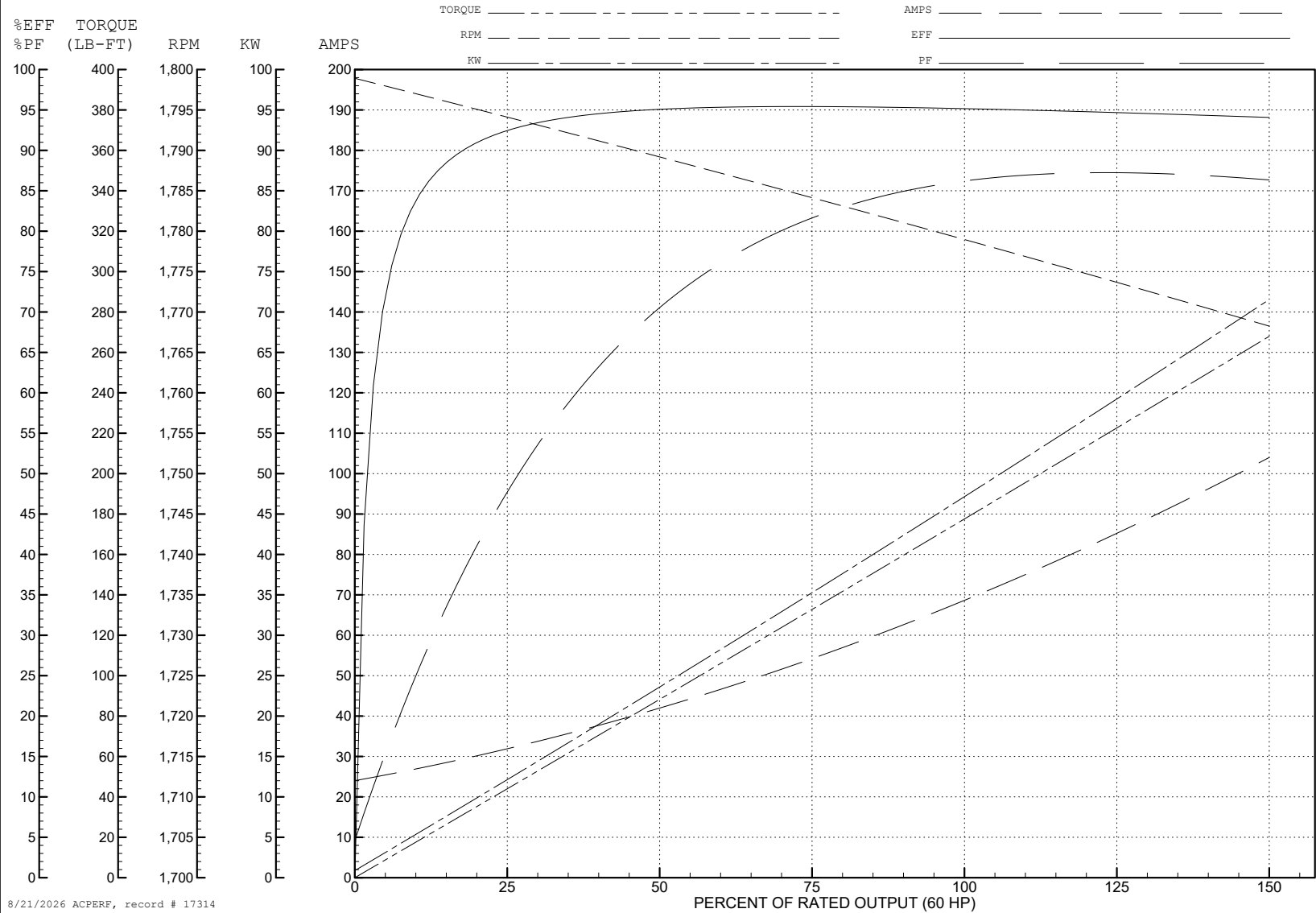
ABB Motors and Mechanical Inc.

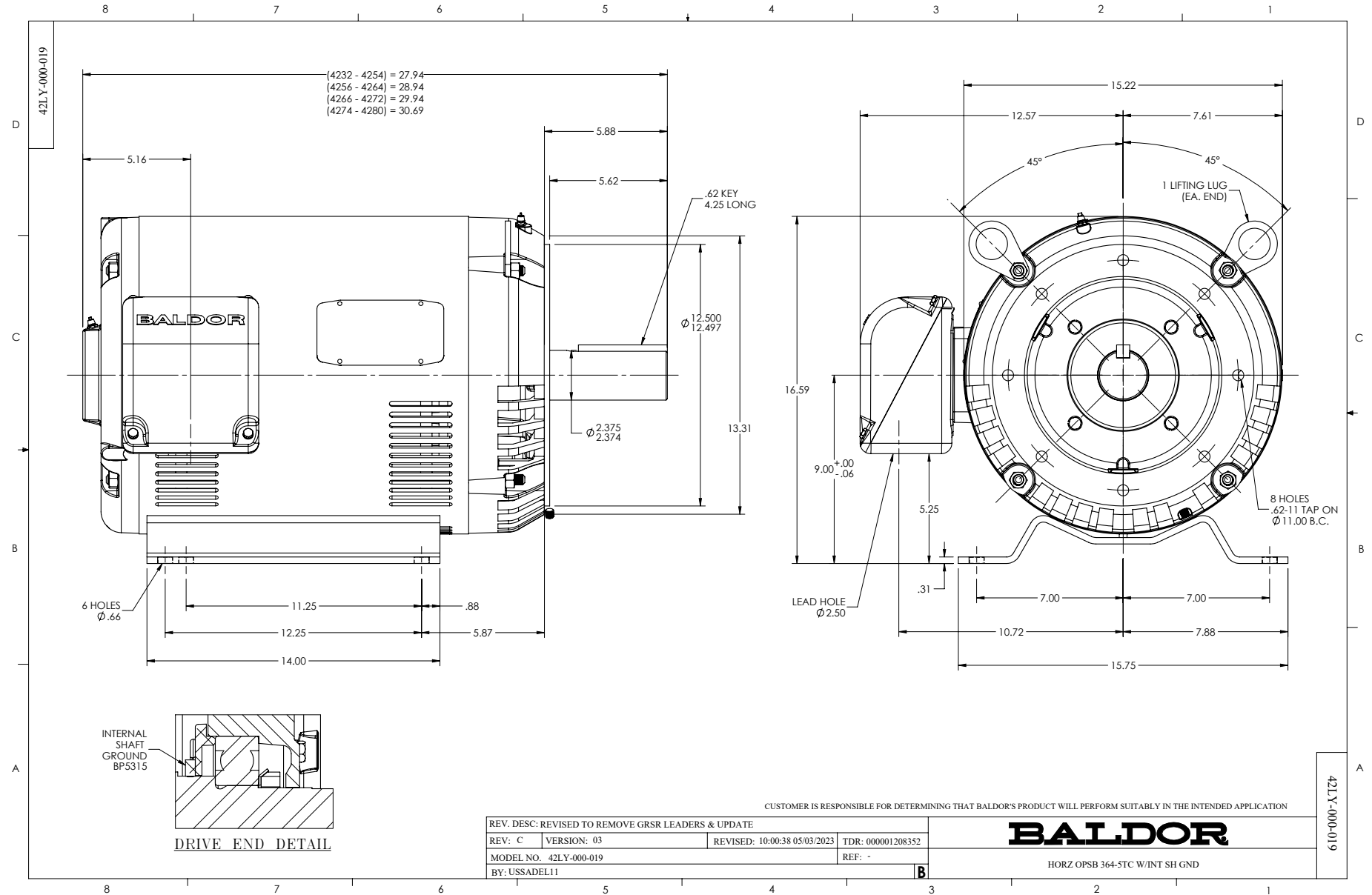
WINDING # 42GW587

Typical performance - not guaranteed values.

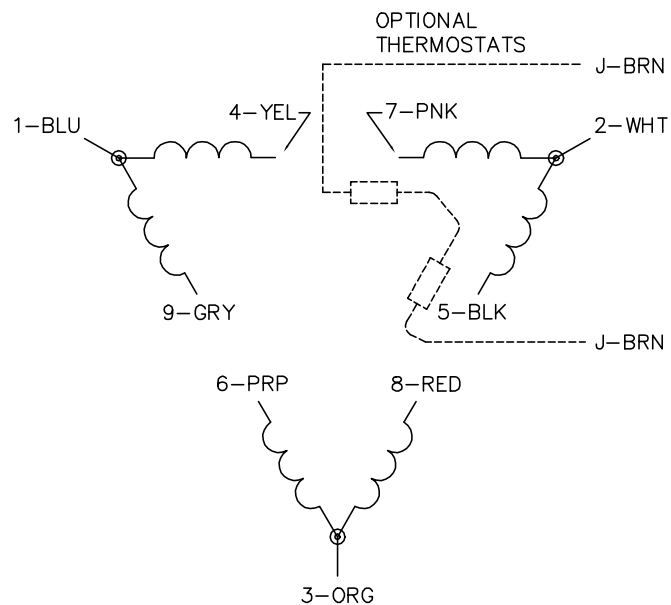
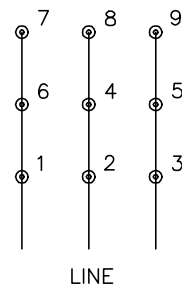
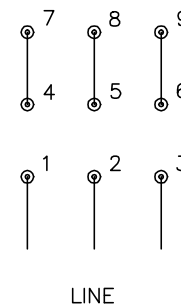
60 HP 3 PH 60 HZ 1775 RPM 460 V 4278M

TORQUES (LB-FT): PO=584 PU=285 LR=311 LRA=514





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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