ABB BALDOR RELIANCE

Customer information packet

CEM2547T-G

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

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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.**									

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. @ 25ºC**	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

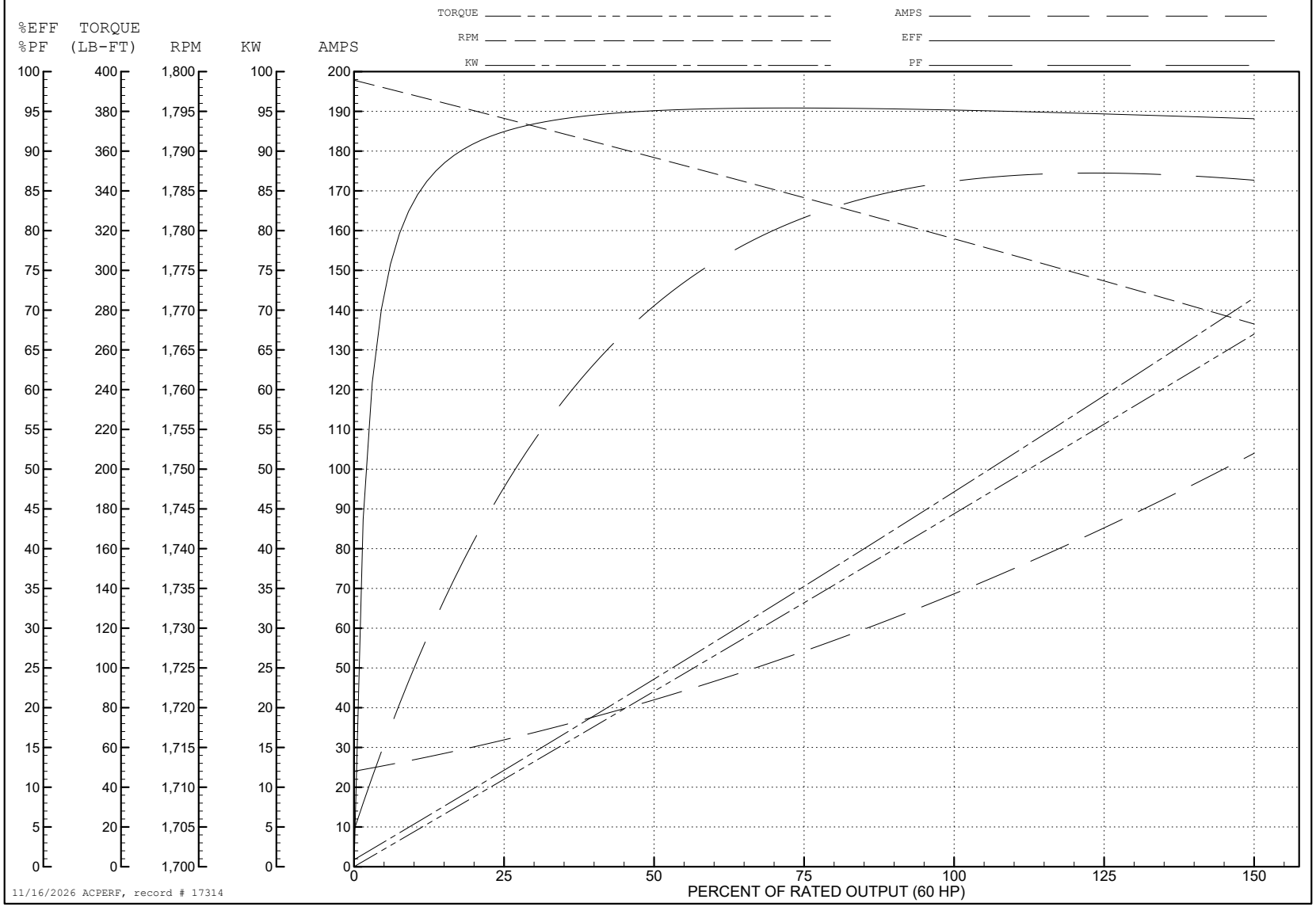
ABB Motors and Mechanical Inc.

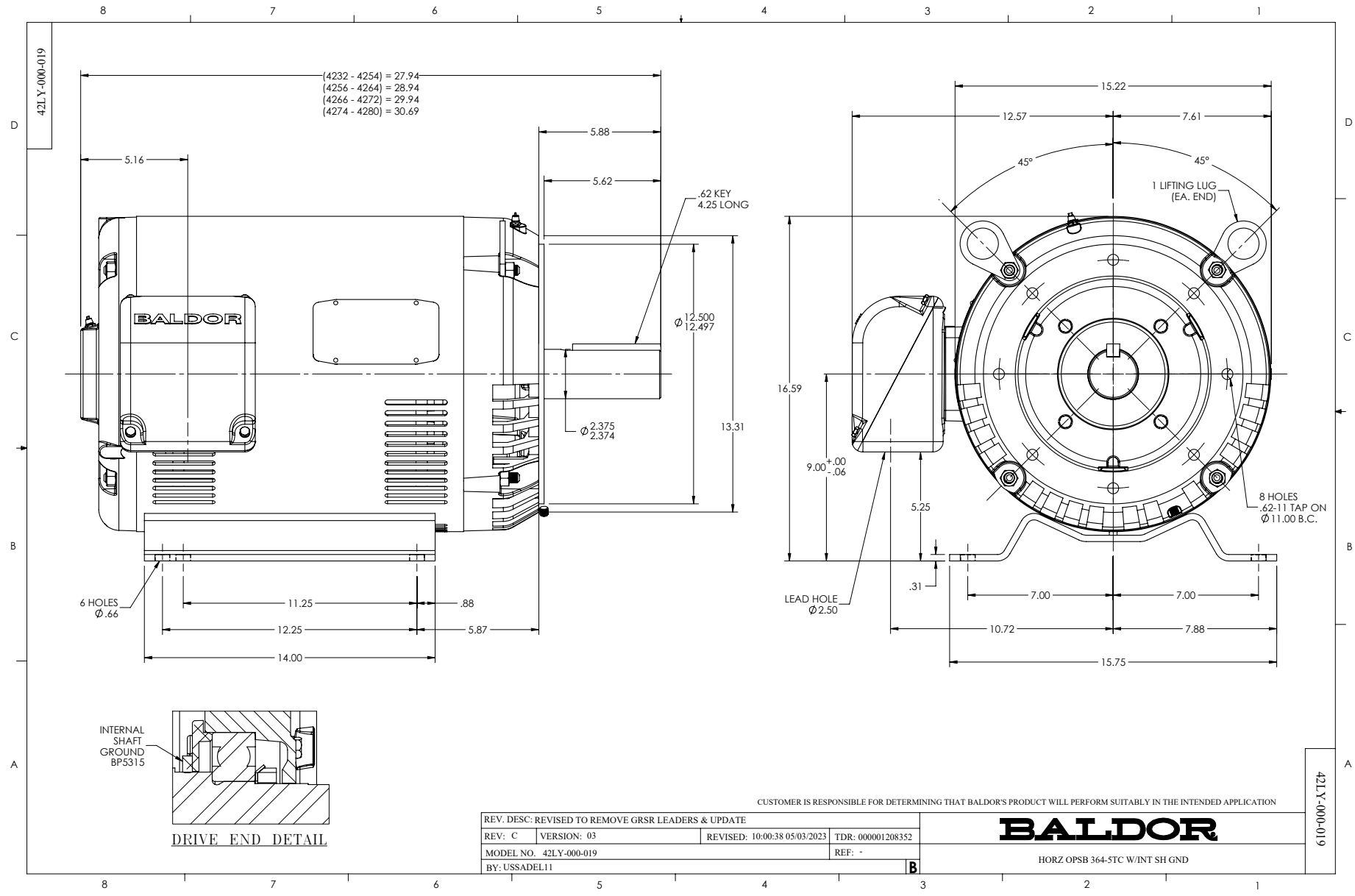
WINDING # 42WGW587

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

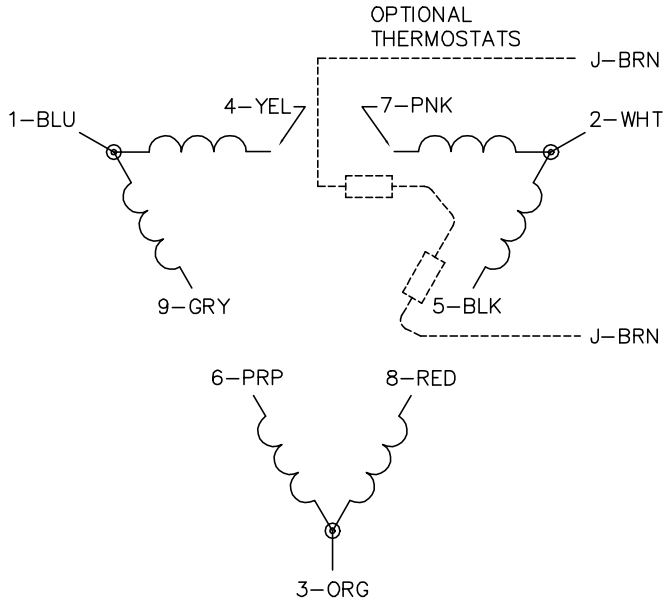
Typical performance - not guaranteed values.

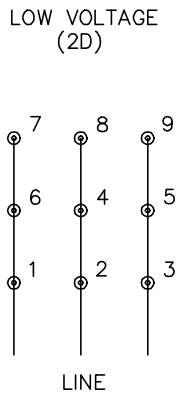
TORQUES(LB-FT): PO=584 PU=285 LR=311 LRA=514

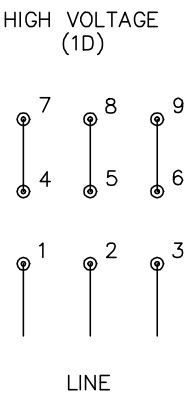



42LY-000-019
(4232 - 4254) = 27.94
(4256 - 4264) = 28.94
(4266 - 4272) = 29.94
(4274 - 4280) = 30.69
5.16
5.88
5.62
.62 KEY
4.25 LONG
Ø 12.500
12.497
Ø 2.375
2.374
13.31
BALDOR
6 HOLES
Ø .66
11.25
.88
12.25
5.87
14.00
15.22
12.57
7.61
45°
45°
1 LIFTING LUG
(EA. END)
16.59
9.00 +.00 -.06
5.25
.31
LEAD HOLE
Ø 2.50
8 HOLES
.62-11 TAP ON
Ø 11.00 B.C.
7.00
7.00
10.72
7.88
15.75
INTERNAL
SHAFT
GROUND
BP5315
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REVISED TO REMOVE GRSR LEADERS & UPDATE
REV: C
VERSION: 03
REVISED: 10:00:38 05/03/2023
TDR: 000001208352
MODEL NO. 42LY-000-019
REF: -
BY: USSADEL11
B
BALDOR
HORZ OPSB 364-5TC W/INT SH GND
42LY-000-019

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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