

BALDOR • RELIANCE

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
Auxillary Box	No Auxillary Box
Auxillary 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	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WG587
Layout	42LY-000-019
Eff. date	07-24-2023
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	G	ODE BRG	6311	DE BRG	6313
AMPS	136/68	USABLE AT 208V	N/A				
RATING	40C AMB-CONT	NEMA-NOM-EFF	95	GREASE	POLYREX EM		
PF	87	SER.F.	1.15	CT30-60(2:1) VT3-60(20:1)			
USABLE AT	50HZ 50HP 190/380V 136/68A			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	177 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	136/68	Breakdown Torque	624 LB-FT		
R.P.M.	1775	Pull-up Torque	245 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	314 LB-FT	
NEMA Design Code	A KVA Code	G	Starting Current	470 A	
Service Factor (S.F.)	1.15	No-load Current	22.2 A		
NEMA Nom. Eff.	95 Power Factor	87	Line-line Res. @ 25°C	0.0815 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	30°C	
S.F. Amps			Temp. Rise @ S.F. Load	40°C	
			Locked-rotor Power Factor	26.2	
			Rotor inertia	10.4 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	85	87	89	89	88
Efficiency	92.6	94.9	95.3	95	94.6	93.7	94.8
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	27.3	38.7	52.1	67.6	83.6	101.3	77.1

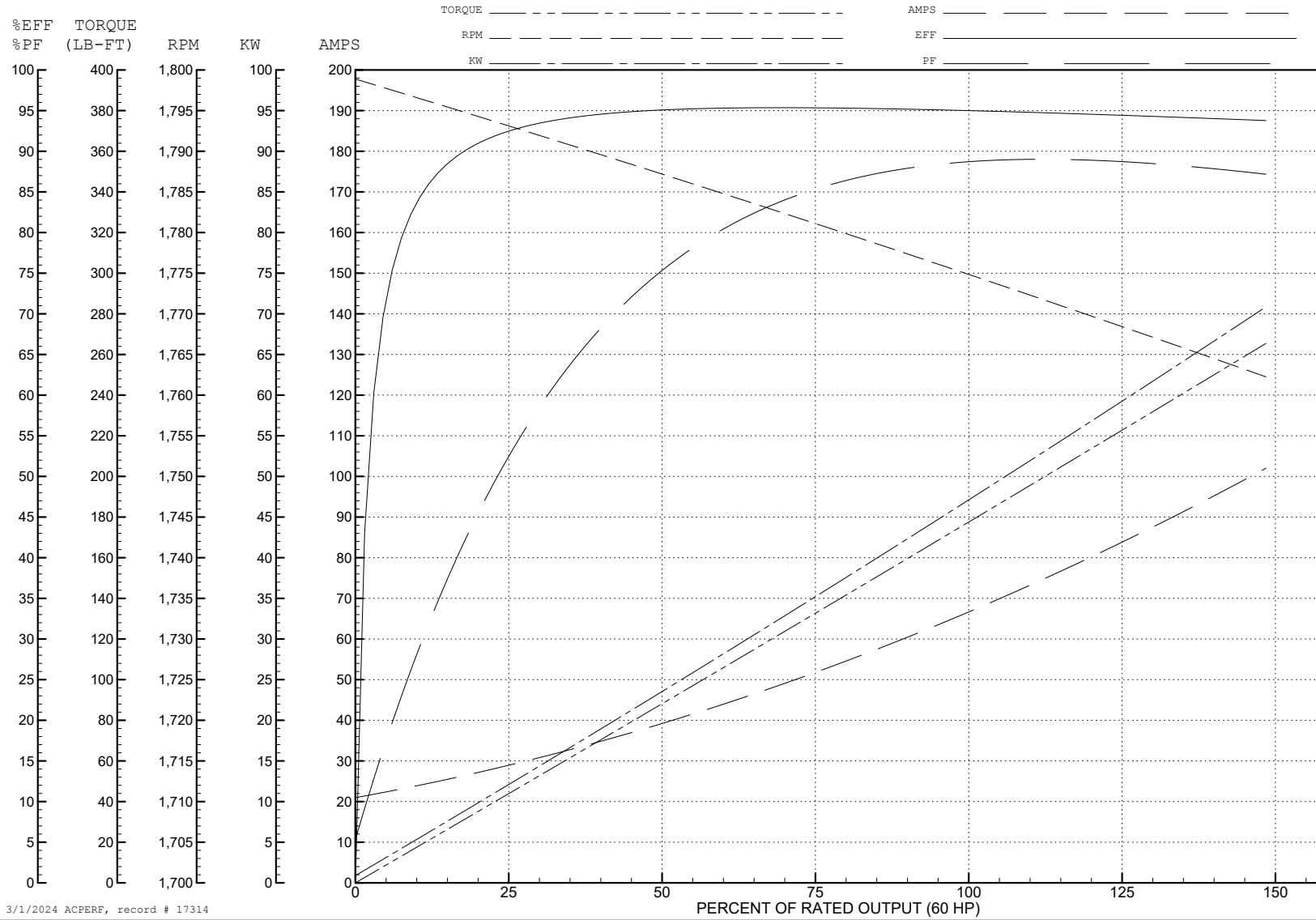
ABB Motors and Mechanical Inc.

WINDING # 42WGW587

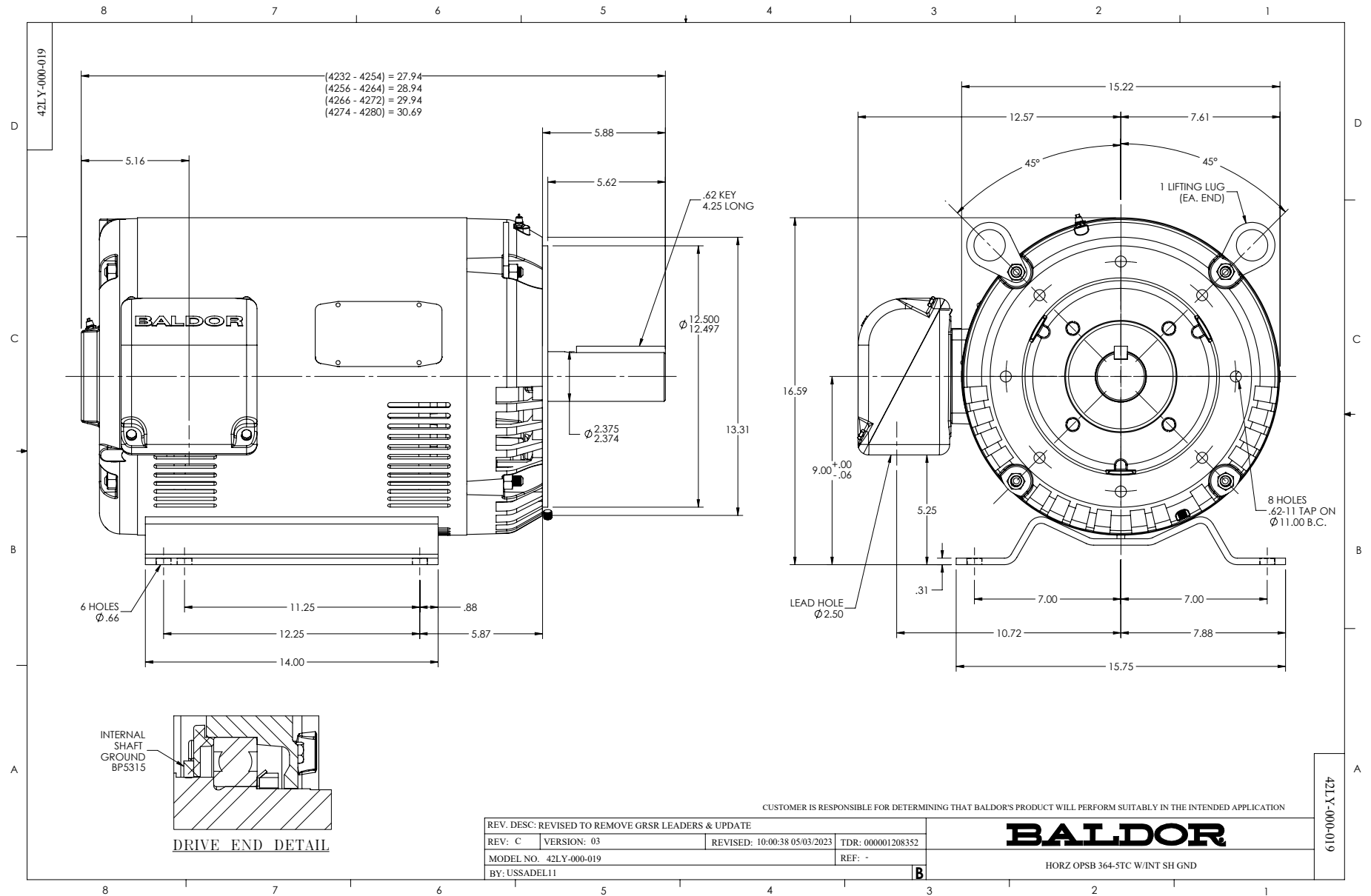
Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=624 PU=245 LR=314 LRA=470



3/1/2024 ACPERF, record # 17314



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

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3PH, DV, 9 LEADS, DELTA CONNECTION

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