



Customer information packet

CEM3546T-G

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3520M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 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 EEV UR NEMA_PREMIUM 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	1.600 A @ 460.0 V 3.200 A @ 208.0 V 3.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYE2179
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

High Voltage Full Load Amps	1.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	69
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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

NP3441LUA

CAT.NO.	CEM3546T-G						
SPEC	35-0000-1361						
HP	1						
VOLTS	230/460						
AMPS	3.2/1.6						
RPM	1770						
FRAME	143TC	HZ	60	PH	3		
SF	1.15	CODE	N	DES	B	CLASS	H
NEMA NOM. EFF	85.5	PF	69				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6205	ODE	6203				
VPWM INVERTER READY	SFA 3.6/1.8						
CT6-60H(10:1)VT3-60H(20:1)	50HZ 1HP 190/380V 3.6/1.8A						SF1.0

AC Induction Motor Performance Data

Record # 86922

Typical performance - not guaranteed values

Winding: 35WGG004-R004		Type: 3520M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1	Full Load Torque	2.97 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	3.26/1.63	Breakdown Torque	13.68 LB-FT	
R.P.M.	1760	Pull-up Torque	7.85 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	9.01 LB-FT
NEMA Design Code	B KVA Code	N	Starting Current	14.13 A
Service Factor (S.F.)	1.15	No-load Current	1.08 A	
NEMA Nom. Eff.	85.5 Power Factor	67	Line-line Res. @ 25°C	16.9 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	24°C	
S.F. Amps	3.52/1.76	Temp. Rise @ S.F. Load	27°C	
		Locked-rotor Power Factor	61.5	
		Rotor inertia	0.144 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	47	60	69	76	79	73
Efficiency	72.1	81.7	84.7	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.59	1.82	2.09	1.73

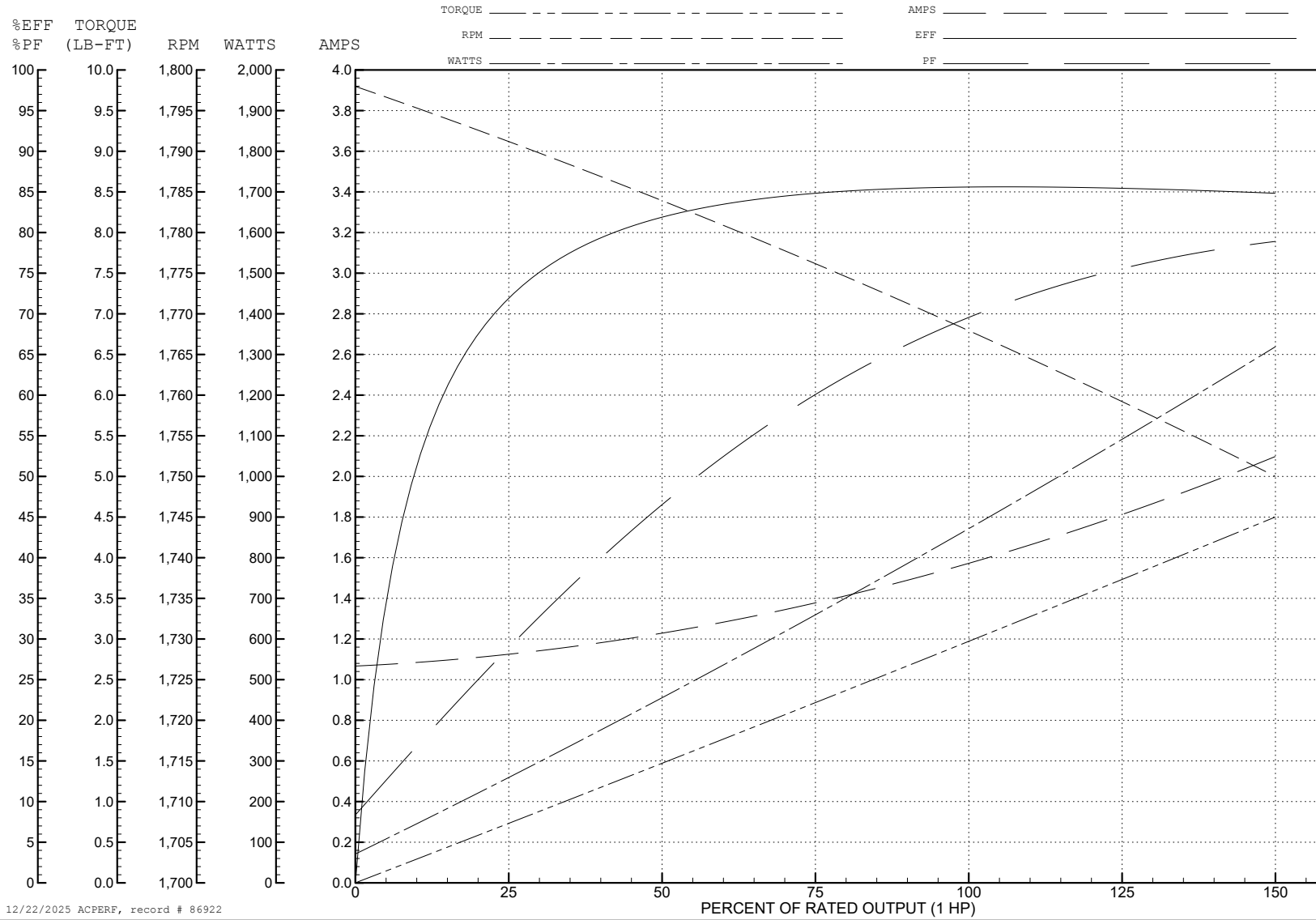
ABB Motors and Mechanical Inc.

WINDING # 35WGG004

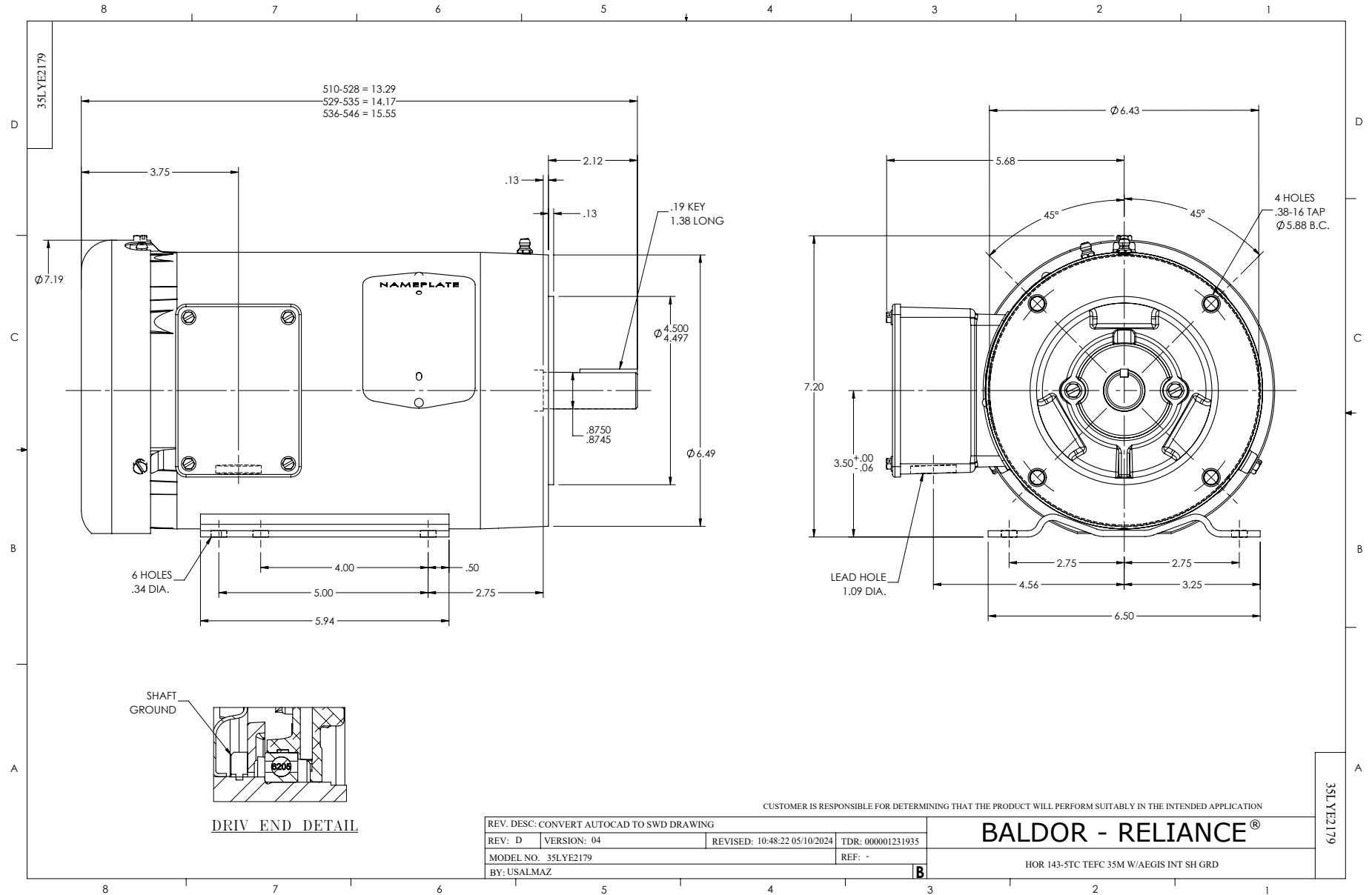
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13



12/22/2025 ACPERF, record # 86922



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CONVERT AUTOCAD TO SWD DRAWING			
REV: D	VERSION: 04	REVISED: 10-48:22 05/10/2024	TDR: 000001231935
MODEL NO. 35LYE2179		REF: -	
BY: USALMAZ			

BALDOR - RELIANCE®

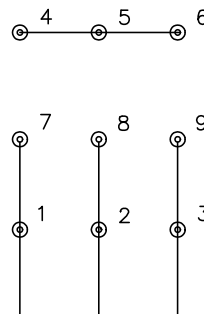
HOR 143-5TC TEFC 35M W/AEGIS INT SH GRD

35LYE2179

CD0005

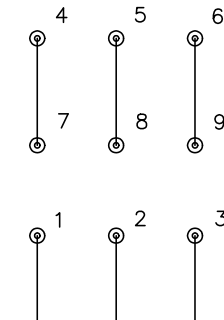


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS