



Customer information packet

CEM4106T

20HP, 3520RPM, 3PH, 60HZ, 256TC, 0936M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256TC
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA CSA EEV
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	50.000 A @ 208.0 V 46.000 A @ 230.0 V 23.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	AG
Type	AC
Mech. spec.	09C102
Base	
Status	PRD/A
Elec. spec.	09WGZ601
Layout	09LYC102
Eff. date	04-27-2021
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	06-09-2010

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.78 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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.	CEM4106T							
SPEC	09C102Z601G1							
HP	20							
VOLTS	208-230/460							
AMPS	50-46/23							
RPM	3520							
FRAME	256TC	HZ	60	PH	3			
SF	1.15	CODE	H	DES	A	CLASS	F	
NEMA NOM. EFF	91	PF	89					
RATING	40C AMB-CONT							
CC	010A	USABLE AT 208V						
ENCL	TEFC	SER						
DE	6309	ODE	6208					
VPWM INVERTER READY								
CT6-60H(10:1)VT3-60H(20:1	50Hz 20HP 190/380V 56/28A						SF1.0	

AC Induction Motor Performance Data

Record # 57538

Typical performance - not guaranteed values

Winding: 09WGZ601-R004		Type: 0936M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	20	Full Load Torque	29.6 LB-FT		
Volts	208-230/460	Start Configuration	direct on line		
Full Load Amps	50-46/23	Breakdown Torque	111 LB-FT		
R.P.M.	3520	Pull-up Torque	39.1 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	49.6 LB-FT	
NEMA Design Code	A KVA Code	H	Starting Current	161 A	
Service Factor (S.F.)	1.15	No-load Current	7.17 A		
NEMA Nom. Eff.	91 Power Factor	89	Line-line Res. @ 25°C	0.47592 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	76°C		
S.F. Amps		Temp. Rise @ S.F. Load	95°C		
		Locked-rotor Power Factor	29		
		Rotor inertia	0.92 lb-ft ²		

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	78	86	89	90	90	90
Efficiency	88.9	92.2	92.4	91.7	90.7	89.2	91.1
Speed	3579.6	3561.5	3541.3	3519.5	3495.4	3467.8	3505
Line amperes	9	13	17.7	22.9	28.6	35	26.3

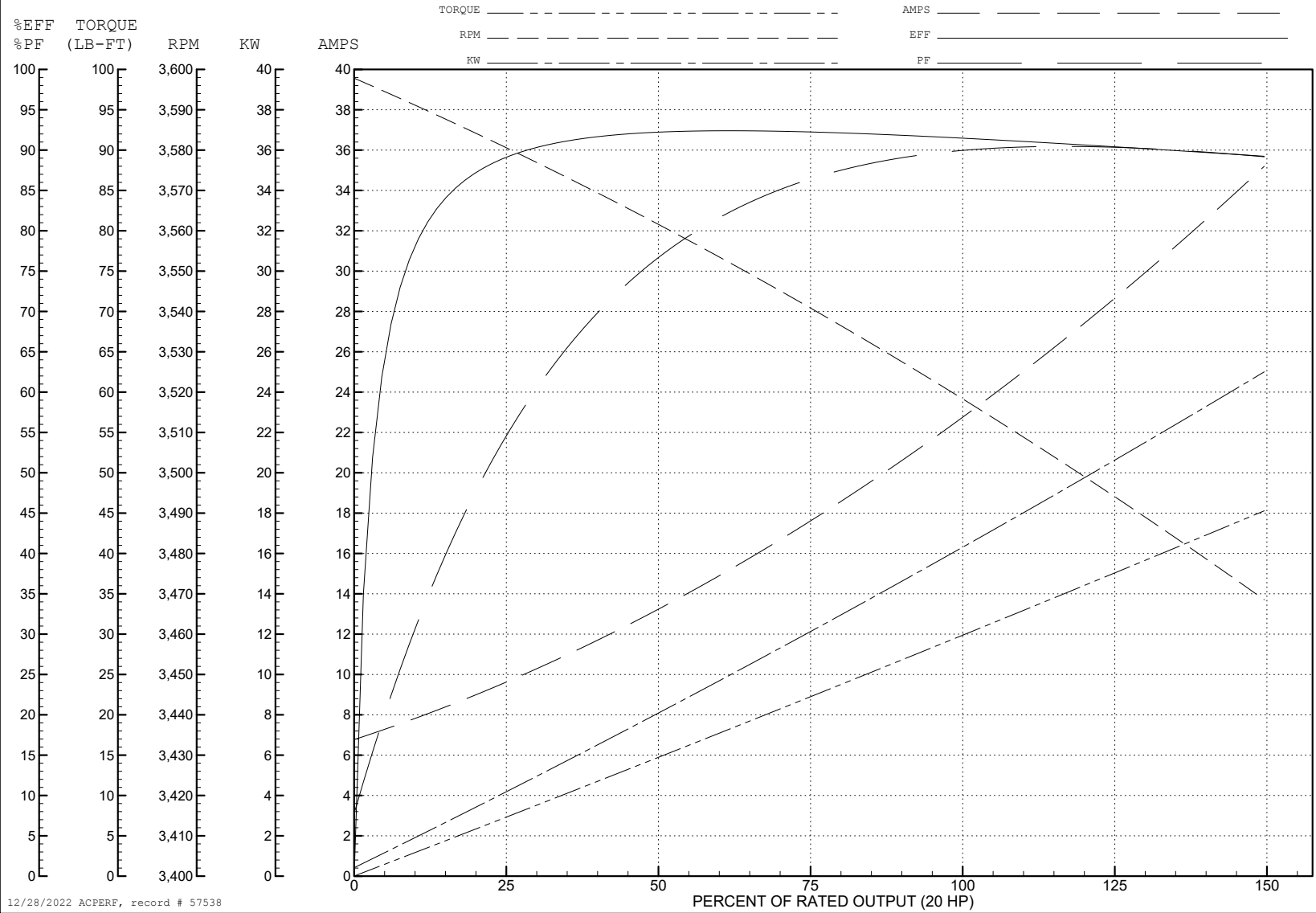
ABB Motors and Mechanical Inc.

WINDING # 09WGZ601

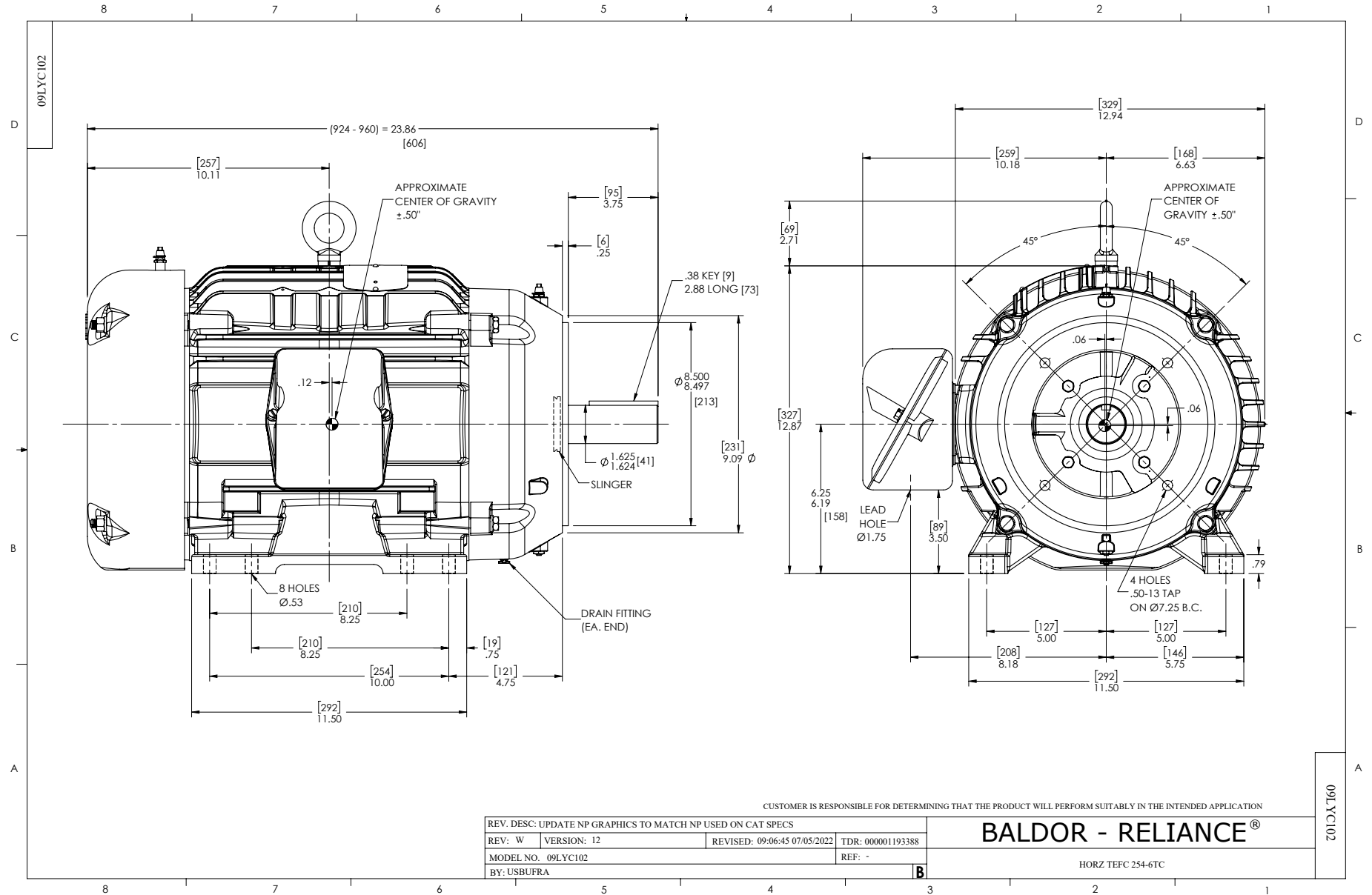
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3520 RPM 460 V 0936M

TORQUES (LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161



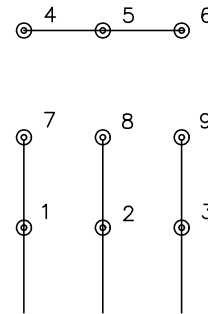
12/28/2022 ACPERF, record # 57538



CD0005

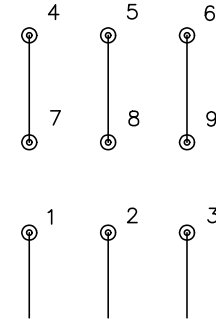


LOW VOLTAGE
(2Y)



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