



Customer information packet

CECP4316T

75HP, 1780RPM, 3PH, 60HZ, 365TC, A36070M, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	365TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 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	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	86.000 A @ 460.0 V 188.000 A @ 208.0 V 172.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater

Part detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	611740-503-SH1
Eff. date	02-13-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	05-15-2020

High Voltage Full Load Amps	86.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Power Factor	86
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4033LUA																				
CAT #		CECP4316T				SER					CC		010A							
SPEC		A36-7700-4076				RATING		40C AMB-CONT												
HZ		VOLTS		AMPS		RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF		
60		230/460		172/86		1780		75		G		1.15		B		86		% 95.4 %		
																		% %		
PH		3	CL	F	MAX RPM		4200		MAX CORR KVAR			15.8								
BRG		DE	6313		ODE	6313		ENCL	TEFC		FR	365TC		IP	55					
GREASE		POLYREX EM									MTR WT					LBS				
CL I DIV 2 GRPS A,B,C,D					CL I ZONE 2 GRPS					IIA,IIB,IIC					TEMP T		200	C		
INV READY		CT	15-60		HZ	4:1		VT	3-60		HZ	20:1		CHP		60-90		HZ	1.5:1	
INV TEMP CL			200	C	USABLE AT		50HZ 60HP 190/380V 168/84A							SF1.0						

AC induction motor performance data

Record #71910 - Typical performance - not guaranteed values

Winding	A36WG4076
Type	A3670M
Enclosure	TEFC

Nameplate data

Rated Output	75
Volts	230 / 460
Full Load Amps	172 / 86
R.P.M.	1780
Hz	60
Phase	3
KVA Code	G
S.F.	1.15
NEMA Nom. Eff.	95.4
Power Factor	86
Duty	CONT
S.F. Amps	

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	220.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	618 LB-FT
Pull-up Torque	341 LB-FT
Locked-rotor Torque	434 LB-FT
Starting Current	545 A
No-load Current	27.5
Line-line Res. @ 25°C	0.081965 Ω
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	31.8
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 75 HP

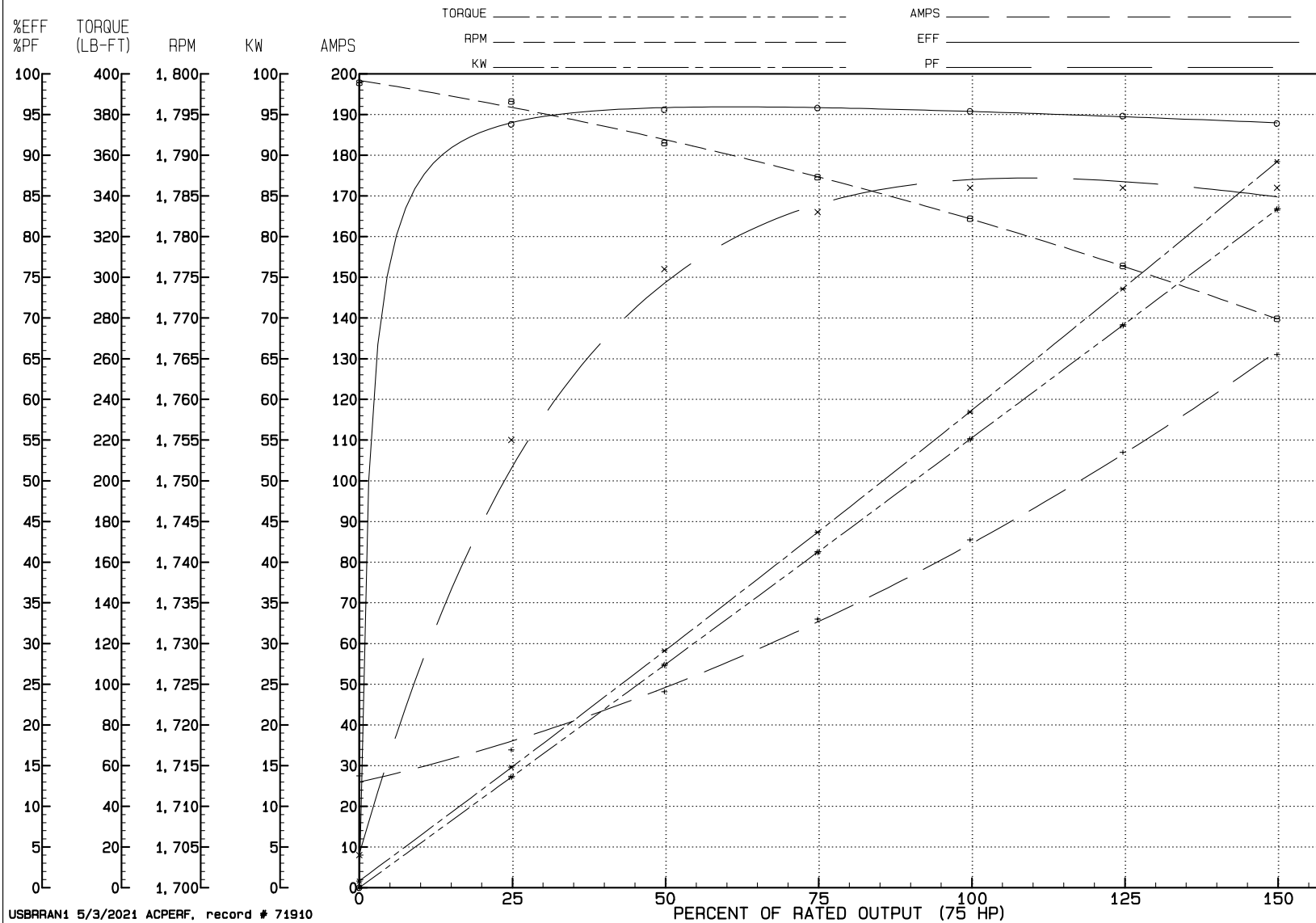
% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	55	76	83	86	86	86	86
Efficiency	0	93.8	95.6	95.8	95.4	94.8	93.9	95
Speed	1798.9	1796.6	1791.5	1787.3	1782.2	1776.4	1769.9	1779
Line amperes	27.5	33.9	48.2	66	85.5	107	131	98.4

REVIEW

WINDING # A36WG4076

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M

TORQUES (LB-FT): P0=618.00 PU=341.00 LR=434.00 LRA=545.00



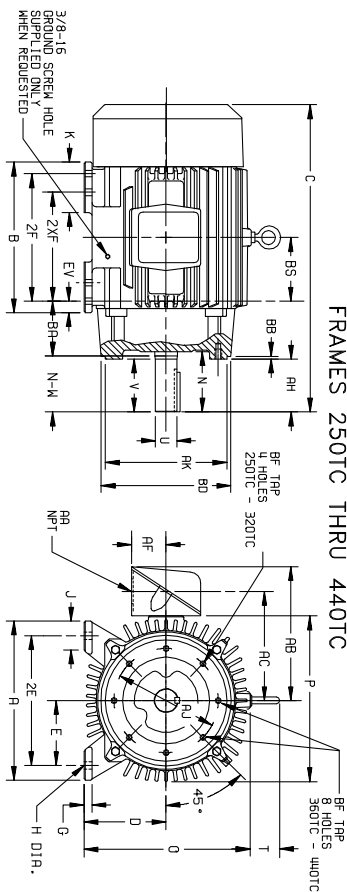
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

FRAMES 250TC THRU 440TC



DIMENSIONS ARE IN INCHES, SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

[illegible]

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: REMOVING TITLEBLOCK		
REV. LTR: A	VERSION: 01	TDR: 000000448517
FILE: \RAG\00004\530	REVISED: 14:21:04 11/07/2007	BY: CONBPM
MTI: -		

(1)	FRAME	C	B5	B	2F	(2F) 2X	N	AH	N-W(2°)	HAFT (U3)	AND KEY	SO.	LGTH	WEIGHT LBS (5)
	SIZE	25.06	5.00	12.00	---	8.25	3.75	4.00	1.625	3.75	3.75	2.88	3.45	
	2541TC	25.06	5.00	12.00	10.00	---	4.06	3.75	4.00	1.625	3.75	3.75	2.88	3.45
	2561TC	25.06	5.00	12.00	---	---	4.06	3.75	4.00	1.625	3.75	3.75	2.88	3.45
	2841TC	27.44	5.50	13.00	---	9.50	5.00	4.38	4.62	1.975	4.38	5.00	3.25	4.85
	2841SC	26.06	5.50	13.00	---	---	3.50	3.62	3.00	3.25	1.625	3.00	3.75	1.86
	2744C	27.44	5.50	13.00	---	---	5.00	4.38	4.62	1.975	4.38	5.00	3.25	5.00
	2861TC	26.06	5.50	13.00	11.00	---	3.62	3.00	3.25	1.625	3.00	3.75	1.86	5.00
	3241C	30.44	6.00	14.75	---	10.50	5.02	5.00	5.25	2.125	5.00	5.00	3.88	6.05
	3241SC	28.94	6.00	14.75	---	10.50	4.12	3.50	3.75	1.675	3.50	5.00	2.00	6.05
	3261TC	28.94	6.00	14.75	12.00	---	5.02	5.00	5.25	2.125	5.00	5.00	3.88	6.45
	3361TC	33.44	6.12	15.00	---	11.25	4.75	5.82	5.88	2.375	5.82	6.25	4.45	8.80
	3344C	33.44	6.12	15.00	---	---	4.12	3.50	3.75	1.675	3.50	5.00	2.00	8.74
	3641SC	33.44	6.12	15.00	---	11.25	6.75	5.82	5.88	2.375	5.82	6.25	4.45	9.05
	3651SC	31.31	6.12	15.00	12.25	---	4.12	3.50	3.75	1.675	3.50	5.00	2.00	8.89
	4041TC	38.31	6.88	16.00	---	12.25	7.50	7.00	7.25	2.875	7.00	7.50	5.62	12.65
	4041SC	35.31	6.88	16.00	---	---	4.00	4.00	4.25	2.125	4.00	5.00	2.75	12.56
	4051TC	38.31	6.88	16.00	13.75	---	7.50	7.00	7.25	2.875	7.00	7.50	5.62	13.05
	4051SC	35.31	6.88	16.00	---	---	4.00	4.00	4.25	2.125	4.00	5.00	2.75	12.96
	4441TC	44.82	8.25	19.00	---	14.50	8.94	8.25	8.50	3.375	8.25	8.75	6.88	17.36
	4441SC	40.88	8.25	19.00	---	---	5.19	4.50	4.75	2.375	4.50	6.25	3.00	17.22
	4451TC	44.82	8.25	19.00	16.50	---	8.94	8.25	8.50	3.375	8.25	8.75	6.88	19.28
	4451SC	40.88	8.25	19.00	16.50	---	5.19	4.50	4.75	2.375	4.50	6.25	3.00	19.12

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE
CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1,
W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
- (2) "V" VARIES [250TC - 320TC + 0.00, -0.03
-360TC - 440TC + 0.00, -0.06]
- (3) "U" VARIES [4P TO 1.625 DIA. + 0.000, -0.005
1.625 AND LARGER + 0.00, -0.01]
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDS UPON RATING.
- (6) "AK" VARIES [250TC - 280TC + 0.00, -0.03
320TC - 440TC + 0.00, -0.05]
- (7) "N-W" VARIES +1.00, -.25
- IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT
FACTORY.
- MAXIMUM PERMISSIBLE SHAFT RINOUT WHEN MEASURED
AT END OF 1.00" SHAFT EXTENSION IS .002 T.I.R. UP TO
AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA.
TO 5 INCH DIA.
- FACE RINOUT AND [250TC - 280TC INCL. .004 MAX. T.I.R.
320TC - 440TC INCL. .005 MAX. T.I.R.]
ECCENTRICITY

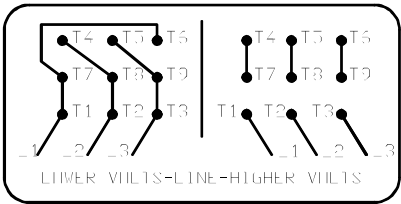
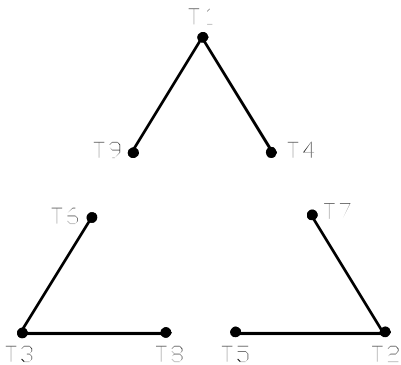
FRAME _____ TYPE _____ CERTIFIED FOR _____
 ORDER _____ ITEM _____ HP _____ PH _____ HZ _____ VOLTS _____
 SALES ORDER _____ APPROVED BY _____ DATE _____

611740-503-SH1

611740-503-SH1

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: -		

BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002