

BALDOR® • RELIANCE 

Product Information Packet

CEM4313T

75HP,3555RPM,3PH,60HZ,365TSC,A36052M,TEF

| Part Detail | | | | | | | |
|-------------|----|-------------|------------|-------------|------------|---------------|------------|
| Revision: | K | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | A36WG1723 | CD Diagram: | 416820-002 | Mfg Plant: | |
| Mech. Spec: | | Layout: | 617428-018 | Poles: | 02 | Created Date: | 12-17-2010 |
| Base: | | Eff. Date: | 02-24-2017 | Leads: | 3#2,6#4 | | |

| Specs | | | |
|--------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number: | CEM4313T | Feedback Device: | NO FEEDBACK |
| Enclosure: | TEFC | Heater Indicator: | No Heater |
| Frame: | 365TSC | Insulation Class: | F |
| Frame Material: | Iron | Inverter Code: | Inverter Ready |
| Output @ Frequency: | 75.000 HP @ 60 HZ | KVA Code: | E |
| Synchronous Speed @ Frequency: | 3600 RPM @ 60 HZ | Lifting Lugs: | Standard Lifting Lugs |
| Voltage @ Frequency: | 230.0 V @ 60 HZ | Motor Lead Quantity/Wire Size: | 3 @ 2 AWG |
| | 460.0 V @ 60 HZ | Motor Type: | A36052M |
| XP Class and Group: | None | Mounting Arrangement: | F1 |
| XP Division: | Not Applicable | Power Factor: | 90 |
| Agency Approvals: | CCSA US | Product Family: | Other |
| | CSA EEV | Pulley End Bearing Type: | Ball |
| Auxillary Box: | No Auxillary Box | Pulley Face Code: | No Endplate |
| Base Indicator: | Rigid | Shaft Ground Indicator: | No Shaft Grounding |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Shaft Rotation: | Reversible |
| Current @ Voltage: | 166.800 A @ 230.0 V | Shaft Slinger Indicator: | No Slinger |
| | 83.400 A @ 460.0 V | Speed Code: | Single Speed |
| Design Code: | B | Motor Standards: | NEMA |

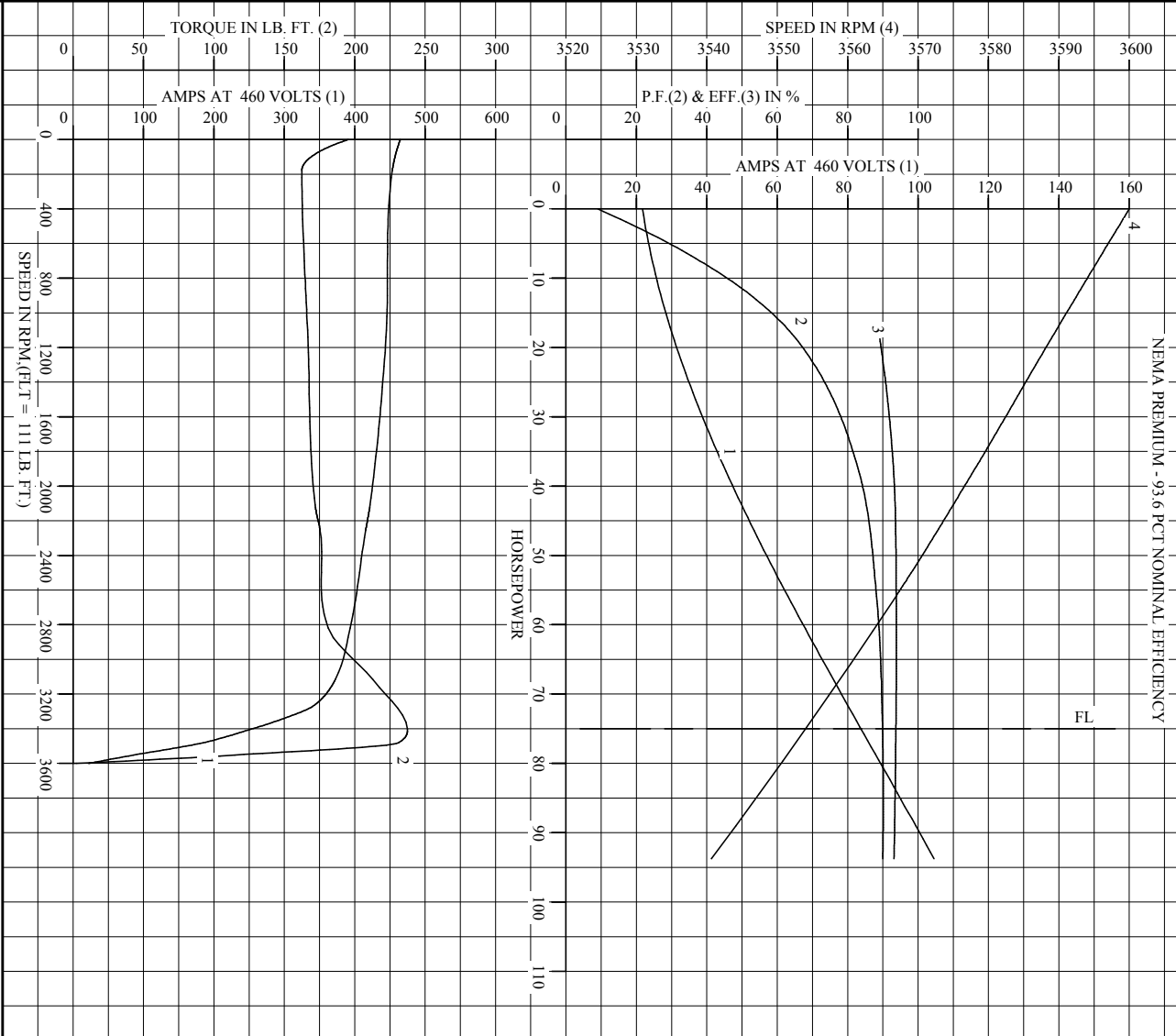
| | | | |
|---------------------|---------------|----------------------------------|----------------|
| Drip Cover: | No Drip Cover | Starting Method: | Direct on line |
| Duty Rating: | CONT | Thermal Device - Bearing: | NONE (OLD) |
| | | Thermal Device - Winding: | None |

| Nameplate NP2383L | | | | | | | | | | |
|-------------------------|------------|------|----------|---------------|----------|---------|-----------------------|--------|-------------|---|
| CAT.NO. | CEM4313T | | | SPEC NO. | P36G4677 | | | | | |
| HP | 75 | AMPS | 167/83.4 | | VOLTS | 230/460 | | DESIGN | B | |
| FRAME | 365TSC | RPM | 3555 | HZ | 60 | AMB | 40 | SF | 1.15 | |
| DRIVE END BEARING | 65BC03J30X | | | PHASE | 3 | DUTY | CONT | | INSUL.CLASS | F |
| OPP D.E. BEARING | 65BC03J30X | | | TYPE | P | ENCL | TEFC | CODE | E | |
| SER.NO. | | | | POWER FACTOR | 90 | | NEMA-NOM-EFFICIENCY | 93.6 | | |
| NEMA NOM/CSA QUOTED EFF | | | | MAX CORR KVAR | 09.5 | | GUARANTEED EFFICIENCY | 92.4 | | |
| | | | | MOTOR WEIGHT | 905 | | | | | |

| Parts List | | |
|-------------|---------------------------------------|----------|
| Part Number | Description | Quantity |
| SA213540 | SA P36G4677 | 1.000 EA |
| RA200760 | RA P36G4677 | 1.000 EA |
| 421948032 | LABEL, MYLAR | 1.000 EA |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABEL | 1.000 EA |
| 000692000VD | LABEL WARNING | 1.000 EA |
| NP2383L | SUPER-E ,SS, CC, CSA-C US, CSA EEV | 1.000 EA |
| 085922073B | BRKT 360 085922072WCC KB | 1.000 EA |
| 415072001B | CLAMP | 1.000 EA |
| 078559001A | +FANCV - 360 | 1.000 EA |
| 034180012DA | KEY 1X4X1/4X1-1/2 L | 1.000 EA |
| 702676001C | FAN 360 | 1.000 EA |
| 004824015A | GREASE POLYREX EM | 0.540 LB |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. | 4.000 EA |
| 032018008AK | HHCS 1/4-20X1 PLATED | 4.000 EA |
| 032018024CK | HHCS 3/8-16X3 PLTD. | 3.000 EA |
| 415096002A | CPLG 1/8 HEX TYPE | 1.000 EA |
| 410700004F | WSHR | 1.000 EA |
| 035000001G | GREASE RELIEF FITTING, ALEMITE 317400 | 1.000 EA |
| 035000001G | GREASE RELIEF FITTING, ALEMITE 317400 | 1.000 EA |
| 034530052AB | P/NIP 1/8X6-1/2 GALV. | 1.000 EA |
| 034690001AB | 1/8" NPT SQHDPLG | 1.000 EA |
| 034600001AA | BUSH 1/4TO1/8 BLACK | 1.000 EA |
| 034690001AB | 1/8" NPT SQHDPLG | 1.000 EA |
| 034600001AA | BUSH 1/4TO1/8 BLACK | 1.000 EA |

| Parts List (continued) | | |
|------------------------|---|----------|
| Part Number | Description | Quantity |
| 085922167A | STD C-FACE BRKT B. E. 360 TEFC 6313 BRG | 1.000 EA |
| 415045002E | SLGR | 1.000 EA |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. | 4.000 EA |
| 032018024CK | HHCS 3/8-16X3 PLTD. | 3.000 EA |
| 077176000L | C/BOX, 360-400 | 1.000 EA |
| 077176001A | CBOXC, PAINTED 360-400 | 1.000 EA |
| 043292000AJ | GASK 320-400 | 1.000 EA |
| 402731001A | GASK 360-440 | 1.000 EA |
| 418150003A | GREASE FITTING CAP | 1.000 EA |
| MG1025Y17 | WILKOFAS, 789.701, SUPER E PEARL GOLD | 0.250 GA |
| 033775004EA | DRSCR #6-1/4 304 S.S. | 2.000 EA |
| 032018005AK | HHCS 1/4-20X5/8 PLATED | 4.000 EA |
| 032018008CK | HHCS 3/8-16X1L PLATED | 4.000 EA |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 EA |
| 415000103D | T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT | 1.000 EA |
| 406099000A | PLUG - FAN COVER 320-440 | 1.000 EA |
| 033512004LB | HHTTS 1/4-20X1/2 PLTD. | 1.000 EA |
| 035000001A | ALFTG 1/8" 1610-BL | 1.000 EA |
| 418150003A | GREASE FITTING CAP | 1.000 EA |
| 034180016GA | KEY 1/2X1/2X2 L | 1.000 EA |
| N424003509DBA | LEAD SET 2-1/4-1 AWG 6-DB 360 FR 54 IN | 1.000 EA |
| 14PA1000 | PACKAGING 314 GROUP COMBINED PRINT | 1.000 EA |

REL. S.O. _____ RPM 3555 S.F. 1.15 ROTOR 4181410051E
 FRAME 365T VOLTS 230/460 NEMA DESIGN B TEST S.O. CALCULATED DATA
 HP 75 AMPS 167/83.4 CODE LETTER E TEST DATE ---
 TYPE P DUTY CONT ENCLOSURE FCXE STATOR RES. @ 25 °C .0216/.0865
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 491292 OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
 A MEMBER OF THE ABB GROUP

DR. BY W.L. SMITH
 CK. BY J.H. HARRISON
 APP. BY W.L. SMITH
 DATE 08/19/10

A-C MOTOR PERFORMANCE CURVES
 A36WG173-R001
 ISSUE DATE 08/19/10

Printed on 7/18/13 16:40 @ ragsun

| | | | | | | |
|-----------|-------------|-------------------|-----------|--|-------------|---------|
| REL. S.O. | FRAME | HP | TYPE | PHASE/HERTZ | RPM | VOLTS |
| | 365T | 75 | P | 3/60 | 3555 | 230/460 |
| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
| 167/83.4 | CONT | 40/F | 1.15 | B | E | FCXE |
| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES. @25 °C (OHMS (BETWEEN LINES)) | | |
| 491292 | 418141005YE | --- | --- | .0216/.0865 | | |

PERFORMANCE


| LOAD | HP | AMPERES | RPM | POWER FACTOR % | EFFICIENCY % |
|---------|------|---------|------|----------------|--------------|
| NO LOAD | 0 | 21.9 | 3600 | 8.99 | 0 |
| 1/4 | 18.8 | 30.2 | 3589 | 65.4 | 89.1 |
| 2/4 | 37.5 | 45.5 | 3578 | 83.0 | 93.0 |
| 3/4 | 56.2 | 63.6 | 3567 | 88.3 | 93.8 |
| 4/4 | 75.0 | 83.4 | 3554 | 89.9 | 93.7 |
| 5/4 | 93.8 | 105 | 3541 | 90.0 | 93.2 |

SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|--------------|------|--------------------|----------------|---------|
| LOCKED ROTOR | 0 | 176 | 195 | 465 |
| PULL UP | 180 | 147 | 162 | 453 |
| BREAKDOWN | 3410 | 214 | 237 | 247 |
| FULL LOAD | 3554 | 100 | 111 | 83.4 |

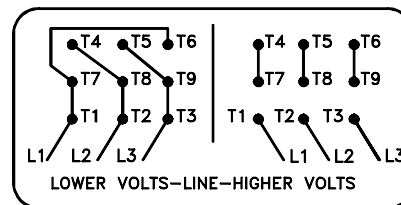
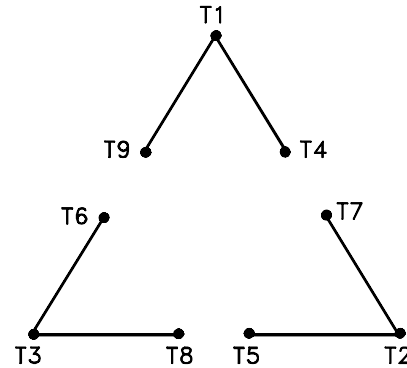
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: CALCULATED DATA
NEMA PREMIUM - 93.6 PCT NOMINAL EFFICIENCY

| | | |
|--|---|--|
|  A MEMBER OF THE ABB GROUP | DR. BY W. L. SMITH | A-C MOTOR PERFORMANCE DATA A36WG1723-R001 ISSUE DATE 08/19/10 |
| | CK. BY J. J. HARRISON APP. BY W. L. SMITH DATE 08/19/10 | |

416820-002

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



(N.P. 1575-B)

416820-002

| | | |
|--------------------------------------|--------------------------------|-------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 | | |
| REV. LTR: - | VERSION: 00 | TDR: 000000538207 |
| FILE: \MGA\00000\661 | REVISED: 10: 47: 51 04/30/2010 | |
| MTL: - | BY: RAGRA | |

BALDOR

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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