



## Product Information Packet

# CEM4106T

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

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | AG     | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 09WGZ601   | CD Diagram: | CD0005 | Mfg Plant:    |            |
| Mech. Spec: | 09C102 | Layout:     | 09LYC102   | Poles:      | 02     | Created Date: | 06-09-2010 |
| Base:       | RG     | Eff. Date:  | 04-27-2021 | Leads:      | 9#10   |               |            |

| Specs                           |                   |                                |                       |
|---------------------------------|-------------------|--------------------------------|-----------------------|
| Catalog Number:                 | CEM4106T          | Front Shaft Indicator:         | None                  |
| Enclosure:                      | TEFC              | Heater Indicator:              | No Heater             |
| Frame:                          | 256TC             | Insulation Class:              | F                     |
| Frame Material:                 | Iron              | Inverter Code:                 | Inverter Ready        |
| Motor Letter Type:              | Three Phase       | KVA Code:                      | H                     |
| Output @ Frequency:             | 20.000 HP @ 60 HZ | Lifting Lugs:                  | Standard Lifting Lugs |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ  | Locked Bearing Indicator:      | Locked Bearing        |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ   | Motor Lead Quantity/Wire Size: | 9 @ 10 AWG            |
|                                 | 230.0 V @ 60 HZ   | Motor Lead Exit:               | Ko Box                |
|                                 | 208.0 V @ 60 HZ   | Motor Lead Termination:        | Flying Leads          |
| XP Class and Group:             | None              | Motor Type:                    | 0936M                 |
| XP Division:                    | Not Applicable    | Mounting Arrangement:          | F1                    |
| Agency Approvals:               | CSA               | Power Factor:                  | 89                    |
|                                 | CSA EEV           | Product Family:                | General Purpose       |
|                                 | UR                | Pulley End Bearing Type:       | Ball                  |
| Auxillary Box:                  | No Auxillary Box  | Pulley Face Code:              | C-Face                |
| Auxillary Box Lead Termination: | None              | Pulley Shaft Indicator:        | Standard              |
| Base Indicator:                 | Rigid             | Rodent Screen:                 | None                  |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Bearing Grease Type:</b>           | Polyrex EM (-20F +300F)   | <b>Shaft Extension Location:</b>   | Pulley End          |
| <b>Blower:</b>                        | None                      | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
| <b>Current @ Voltage:</b>             | 46.000 A @ 230.0 V        | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 50.000 A @ 208.0 V        | <b>Shaft Slinger Indicator:</b>    | Shaft Slinger       |
|                                       | 23.000 A @ 460.0 V        | <b>Speed Code:</b>                 | Single Speed        |
| <b>Design Code:</b>                   | A                         | <b>Motor Standards:</b>            | NEMA                |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Starting Method:</b>            | Direct on line      |
| <b>Duty Rating:</b>                   | CONT                      | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Winding:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Face Code:</b>               | Standard                  | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | 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 |  |  |                |     |      |   |  |       |    |   |  |  |
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|                           |                           |  |  |                |     |      |   |  |       |    |   |  |  |

**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:<br>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-ft²     |           |

**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 |

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





