



## Product Information Packet

# CESSWDM3613T

5HP,3480RPM,3PH,60HZ,182TC,3636M,TEFC,F1

| Part Detail |        |             |            |             |        |               |            |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision:   | A      | Status:     | PRD/A      | Change #:   |        | Proprietary:  | No         |
| Type:       | AC     | Elec. Spec: | 36WGQ045   | CD Diagram: | CD0005 | Mfg Plant:    |            |
| Mech. Spec: | 36L738 | Layout:     | 36LYL738   | Poles:      | 02     | Created Date: | 12-15-2020 |
| Base:       | RG     | Eff. Date:  | 05-31-2022 | Leads:      | 9#16   |               |            |

| Specs                           |                         |                                |                               |
|---------------------------------|-------------------------|--------------------------------|-------------------------------|
| Catalog Number:                 | CESSWDM3613T            | Heater Indicator:              | No Heater                     |
| Enclosure:                      | TEFC                    | Insulation Class:              | F                             |
| Frame:                          | 182TC                   | Inverter Code:                 | Inverter Ready                |
| Frame Material:                 | Stainless Steel         | KVA Code:                      | M                             |
| Motor Letter Type:              | Three Phase             | Lifting Lugs:                  | No Lifting Lugs               |
| Output @ Frequency:             | 5.000 HP @ 60 HZ        | Locked Bearing Indicator:      | Locked Bearing                |
| Synchronous Speed @ Frequency:  | 3600 RPM @ 60 HZ        | Motor Lead Quantity/Wire Size: | 9 @ 16 AWG                    |
| Voltage @ Frequency:            | 460.0 V @ 60 HZ         | Motor Lead Exit:               | Ko Box                        |
|                                 | 230.0 V @ 60 HZ         | Motor Lead Termination:        | Flying Leads                  |
| XP Class and Group:             | None                    | Motor Type:                    | 3636M                         |
| XP Division:                    | Not Applicable          | Mounting Arrangement:          | F1                            |
| Agency Approvals:               | CSA                     | Power Factor:                  | 91                            |
|                                 | UR                      | Product Family:                | Wash Down All Stainless Steel |
| Auxillary Box:                  | No Auxillary Box        | Pulley End Bearing Type:       | Ball                          |
| Auxillary Box Lead Termination: | None                    | Pulley Face Code:              | C-Face                        |
| Base Indicator:                 | Rigid                   | Pulley Shaft Indicator:        | Standard                      |
| Bearing Grease Type:            | Polyrex EM (-20F +300F) | Rodent Screen:                 | None                          |
| Blower:                         | None                    | Shaft Extension Location:      | Pulley End                    |

|                                       |                           |                                    |                     |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| <b>Current @ Voltage:</b>             | 12.600 A @ 208.0 V        | <b>Shaft Ground Indicator:</b>     | No Shaft Grounding  |
|                                       | 5.700 A @ 460.0 V         | <b>Shaft Rotation:</b>             | Reversible          |
|                                       | 11.400 A @ 230.0 V        | <b>Shaft Slinger Indicator:</b>    | No Slinger          |
| <b>Design Code:</b>                   | A                         | <b>Speed Code:</b>                 | Single Speed        |
| <b>Drip Cover:</b>                    | No Drip Cover             | <b>Motor Standards:</b>            | NEMA                |
| <b>Duty Rating:</b>                   | CONT                      | <b>Starting Method:</b>            | Direct on line      |
| <b>Electrically Isolated Bearing:</b> | Not Electrically Isolated | <b>Thermal Device - Bearing:</b>   | None                |
| <b>Feedback Device:</b>               | NO FEEDBACK               | <b>Thermal Device - Winding:</b>   | None                |
| <b>Front Face Code:</b>               | Standard                  | <b>Vibration Sensor Indicator:</b> | No Vibration Sensor |
| <b>Front Shaft Indicator:</b>         | None                      | <b>Winding Thermal 1:</b>          | None                |
|                                       |                           | <b>Winding Thermal 2:</b>          | None                |

## Nameplate NP1953B01

|              |              |  |    |      |     |     |                |  |      |       |   |    |   |
|--------------|--------------|--|----|------|-----|-----|----------------|--|------|-------|---|----|---|
| CAT.NO.      | CESSWDM3613T |  |    |      |     |     |                |  |      |       |   |    |   |
| SPEC.        | 36L738Q045G1 |  |    |      |     |     |                |  |      |       |   |    |   |
| HP           | 5            |  |    |      |     |     |                |  |      |       |   |    |   |
| VOLTS        | 230/460      |  |    |      |     |     |                |  |      |       |   |    |   |
| AMP          | 11.4/5.7     |  |    |      |     |     |                |  |      |       |   |    |   |
| RPM          | 3480         |  |    |      |     |     |                |  |      |       |   |    |   |
| FRAME        | 182TC        |  |    |      | HZ  |     | 60             |  |      |       |   |    |   |
| SER.F.       | 1.15         |  |    | CODE | M   | DES |                |  | A    | CLASS | F | PH | 3 |
| NEMA-NOM-EFF | 89.5         |  |    |      | PF  | 91  |                |  |      |       |   |    |   |
| RATING       | 40C AMB-CONT |  |    |      |     |     |                |  |      |       |   |    |   |
| CC           | 010A         |  |    |      | ODE |     | USABLE AT 208V |  | 12.6 |       |   |    |   |
| DE           | 6206         |  |    |      |     |     |                |  |      |       |   |    |   |
| ENCL         | TEFC         |  | SN |      |     |     |                |  |      |       |   |    |   |
| 4:1CT 20:1VT |              |  |    |      |     |     |                |  |      |       |   |    |   |

**AC Induction Motor Performance Data**

Record # 85855

Preliminary Data Sheet

| Winding: 36WGQ045-R001 |    |              | Type: 3636M  |                                          | Enclosure: TEFC       |                |        |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|--------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                |        |
| Rated Output (HP)      |    | 5            |              | Full Load Torque                         |                       | 7.54 LB-FT     |        |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line |        |
| Full Load Amps         |    | 11.4/5.7     |              | Breakdown Torque                         |                       | 44.8 LB-FT     |        |
| R.P.M.                 |    | 3480         |              | Pull-up Torque                           |                       | 28.2 LB-FT     |        |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 36.4 LB-FT     |        |
| NEMA Design Code       |    | A            | KVA Code     | M                                        | Starting Current      |                | 68.6 A |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 2.16 A         |        |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor | 91                                       | Line-line Res. @ 25°C |                | 1.97 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 87°C           |        |
| S.F. Amps              |    | 13/6.5       |              | Temp. Rise @ S.F. Load                   |                       | 115°C          |        |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 66.3           |        |
|                        |    |              |              | Rotor inertia                            |                       | 0.161 lb-ft²   |        |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 54   | 77   | 86   | 91   | 94   | 94   | 93   |
| Efficiency      | 84.7 | 89.5 | 90.3 | 89.9 | 88.8 | 87.5 | 89.3 |
| Speed           | 3568 | 3541 | 3512 | 3481 | 3447 | 3411 | 3461 |
| Line amperes    | 2.57 | 3.41 | 4.51 | 5.72 | 7.08 | 8.54 | 6.53 |

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values





