



Model Number GR3-RS-OP-213TC-2-B-D-10-230|460-60

MFG PN TXD213T10U2B

List Price --

All data shown at HIGH voltage setting

Format STD 3 Phase

| Electrical Data               |                       |         |              | General Data       |                      |
|-------------------------------|-----------------------|---------|--------------|--------------------|----------------------|
| Rated Motor Output Power      | 10 HP                 |         |              | Frame Size         | 213                  |
| Rated Motor Speed             | 3520 r/min            |         |              | Enclosure          | ODP                  |
| Rated Motor Voltage (3 Phase) | 230 460-60 Volts - HZ |         |              | Approximate Weight | --                   |
| Rated Motor Current           | 23.0/11.5 Amps        |         |              | NEMA Design        | B                    |
| Service Factor                | 1.25                  |         |              | IP Rating          | 56                   |
| KVA Code                      | J                     |         |              | Insulation Class   | H                    |
| Nominal Efficiency            | 89.5 %                |         |              | Tropicalization    | YES                  |
| Nominal Power Factor          | 0.91 cosθ             |         |              | Duty               | Cont. / S1           |
| Full Load Torque Ft-Lb        | 15 Ft-Lb              |         |              | Cable Entry        | 1-NPT 1"             |
| Temp Rise @ Full Load °C      | 34.5                  |         |              | Feet Removable     | YES                  |
| Efficiency Level              | IE3 - NEMA Premium    |         |              | Double Drilled     | NO                   |
| Load Data                     | RPM                   | Trq %FL | Current Amps | Rated Ambient (°C) | 40                   |
| Locked Rotor                  | -                     | 216     | 96.41        | Rated Altitude (M) | 1000                 |
| Breakdown                     | -                     | 298     | -            | Coating            | 7024 - Graphite Grey |
| Pull Up                       | -                     | 135     | -            | Shaft Grounding    | NO                   |
| 125% of FL                    | 3497                  | -       | 14.34        | Brake Voltage (DC) | --                   |
| 75% of FL                     | 3544                  | -       | 8.48         | Brake Torque (N-M) | --                   |
| 50% of FL                     | 3564                  | -       | 5.95         | Mechanical Data    |                      |
| No Load                       | --                    | -       | 2.42         | Bearing DE Side    | 6306ZZ               |
| Hazardous Location            | --                    |         |              | Bearing NDE Side   | 6306ZZ               |
|                               |                       |         |              | Moment of Inertia  | -- kg.m2             |
|                               |                       |         |              | Noise Level        | Per NEMA dB (A)      |

| CT VFD Range |  | -- | Loaded Torque Curves                                                                     |  |
|--------------|--|----|------------------------------------------------------------------------------------------|--|
|              |  |    | P1 = INPUT POWER (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor |  |

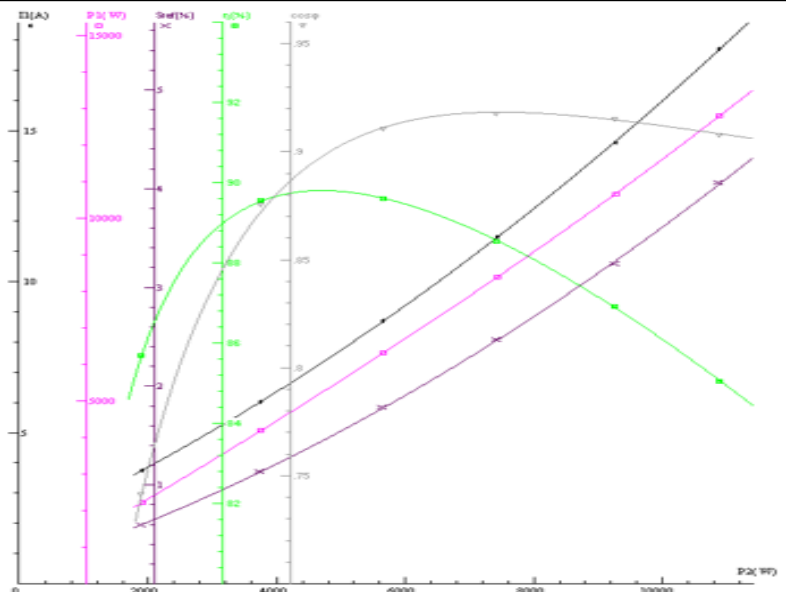
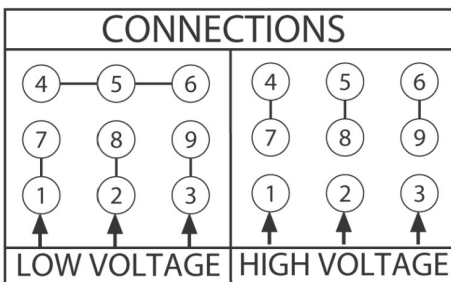
| Certifications | UL                      | CSA    | DOE  |
|----------------|-------------------------|--------|------|
| File Numbers   | 323353                  | 224693 | 096A |
| Wiring Diagram | 3PH 9 Lead Dual Voltage |        |      |

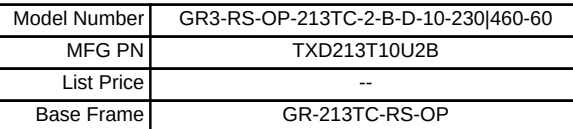
### 3 Phase - YY/Y - 9 Lead

4,1 Blue / 5,2 White / 6,3 Org / 7 Yl / 8 Blk / 9 RD

Cast Iron- 1,2,3 Top - 4,5,6,7,8,9 Bottom

Aluminum - 4,5,6,8,9 Top - 1,2,3,7 Bottom





Technical drawing of the 100W 24VDC motor, showing front, side, and detail views with dimensions in inches.

**Front View Dimensions:**

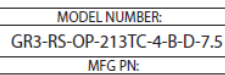
- Total width: 18
- Total height:  $\varnothing 10.05$
- Base width: 8.5
- Base height: 0.433
- Motor body width: 5.5
- Motor body height: 5.16
- Terminal block width: 3.5
- Terminal block height: 3.375
- Terminal block mounting flange width: 2.41
- Terminal block mounting flange height: 0.25
- Terminal block mounting flange thickness: 0.25

**Side View Dimensions:**

- Total width: 12.2
- Total height: 12.4
- Motor body width: 7.15
- Motor body height: 5.95
- Motor body mounting flange width: 4.25
- Motor body mounting flange height: 0.59
- Motor body mounting flange thickness: 0.25
- Motor body mounting flange diameter:  $\varnothing 7.25$
- Motor body mounting flange angle:  $45^\circ$
- Motor body mounting flange thread:  $4 \times \frac{1}{2} - 13 \text{UNC}$
- Motor body mounting flange thread:  $1 - 11\frac{1}{2} \text{NPT}$

**Detail View Dimensions:**

- Detail view shows a circular feature with a diameter of  $\varnothing 1.375$  and a height of 1.201.
- Detail view shows a rectangular feature with dimensions  $0.312 \times 0.312$ .



| REV. | BY | DATE |
|------|----|------|
| 1    |    |      |
| 2    |    |      |
| 3    |    |      |
| 4    |    |      |
| 5    |    |      |
| 6    |    |      |
| 7    |    |      |

## CHANGES

|                    |          |
|--------------------|----------|
| MATERIAL: ALUMINUM |          |
| UNITS: INCH        | BY: SSEE |
| DRAWN: 6/13/2018   |          |
| WWW.TECHTOP.COM    |          |

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