## **PRODUCT INFORMATION PACKET**

Model No: TCA3152A3141GACD01 Catalog No: TCA3152A3141GACD01 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 415 V, 355L Frame



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Product Information Packet: Model No: TCA3152A3141GACD01, Catalog No:TCA3152A3141GACD01 TerraMAX® Cast Iron Motor, 425 HP, 3 Ph, 50 Hz, 415 V, 355L Frame

# marathon®

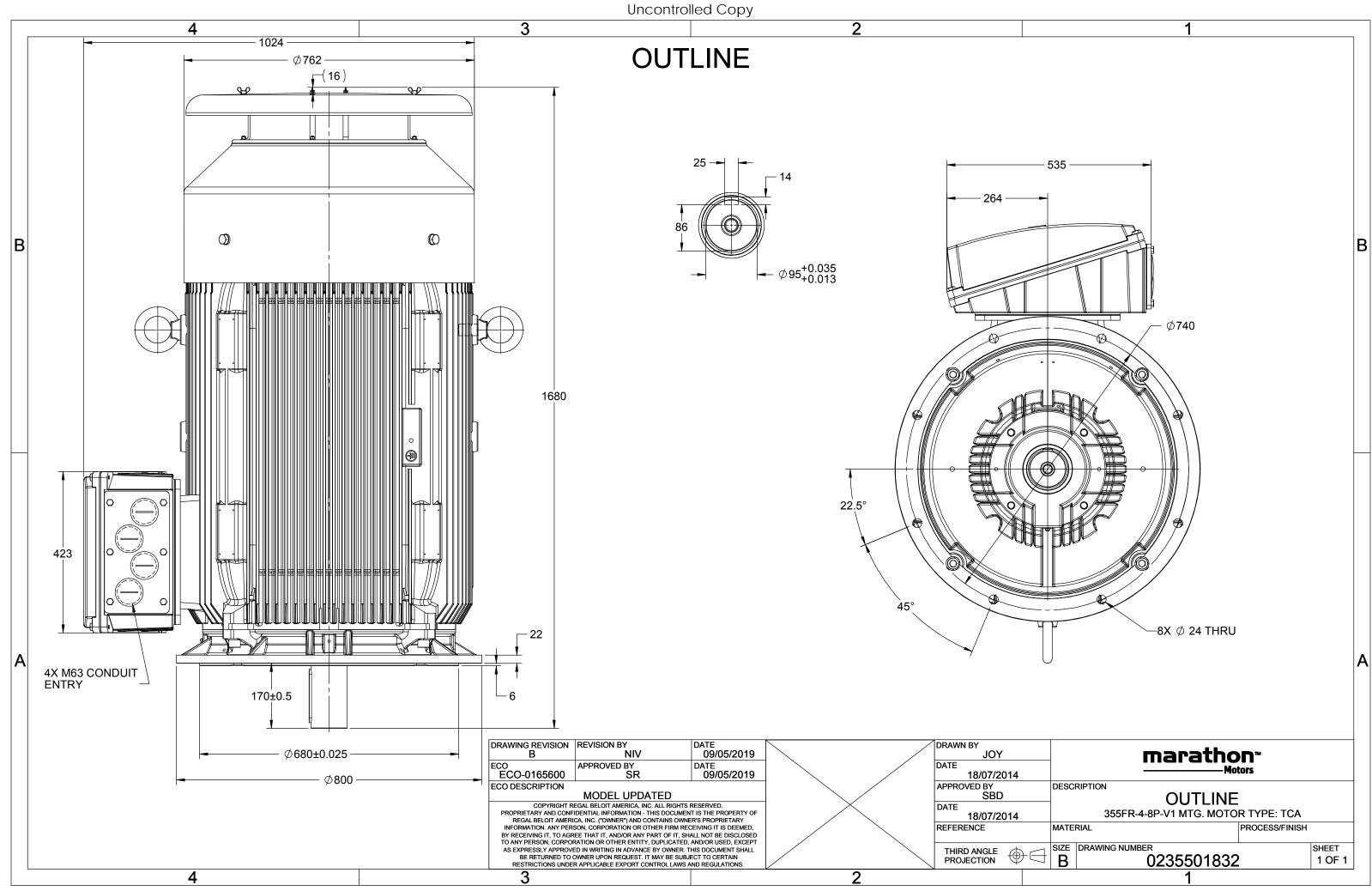
## Nameplate Specifications

| Phase                  | 3             | Output HP                  | 425 Hp                      |  |  |
|------------------------|---------------|----------------------------|-----------------------------|--|--|
| Output KW              | 315.0 kW      | Voltage                    | 415 V                       |  |  |
| Speed                  | 1490 r/min    | Service Factor             | 1                           |  |  |
| Frame                  | 355L          | Enclosure                  | Totally Enclosed Fan Cooled |  |  |
| Thermal Protection     | No Protection | Efficiency                 | 96 %                        |  |  |
| Ambient Temperature    | 50 °C         | Frequency                  | 50 Hz                       |  |  |
| Current                | 507.2 A       | Power Factor               | 0.9                         |  |  |
| Duty                   | S1            | Insulation Class           | F                           |  |  |
| Drive End Bearing Size | 6322          | Opp Drive End Bearing Size | 6322                        |  |  |
| UL                     | No            | CSA                        | No                          |  |  |
| CE                     | Yes           | IP Code                    | 55                          |  |  |
| Number of Speeds       | 1             | Efficiency Class           | IE3                         |  |  |

## **Technical Specifications**

| Electrical Type       | Squirrel Cage | Starting Method       | Direct On Line |
|-----------------------|---------------|-----------------------|----------------|
| Poles                 | 4             | Rotation              | Bi-Directional |
| Mounting              | V1            | Motor Orientation     | Shaftdown      |
| Drive End Bearing     | C3            | Opp Drive End Bearing | C3             |
| Frame Material        | Cast Iron     | Shaft Type            | Keyed          |
| Overall Length        | 1677 mm       | Frame Length          | 1010 mm        |
| Shaft Diameter        | 95 mm         | Shaft Extension       | 170 mm         |
| Assembly/Box Mounting | Тор           |                       |                |
| Connection Drawing    | 8442000085    | Outline Drawing       | 0235501832     |

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## Model No. TCA3152A3141GACD01

| A / V      | f  | р  | D   |  | n   | т   | 15  | 0/   | EEE of  | load  |  | D   | Eat la  | ad   | 1/1  | т /т   | T <sub>K</sub> /T <sub>N</sub>  |
|------------|--|--|---|--|---|---|---|--|---|---|--|---|---|--|--|--|---|
|            | •  | -  | -   | [A]  |   |   |   |  | _   |   | 1/251  |   |   |  |  |  |   |
|            | <u> </u>   |  |   |  | · ·   | · ·   |   | 5/4FL  |   |   |  |   | ,   |  |  |  | [pu]  |
| Δ          | 50   | 315  | 425   | 507.2  | 1490  | 2031.21   | IE3   | -  | 96.0  | 96.0  | 96.1   | 0.90  | 0.88  | 0.84   | 7  | 2.0  | 2.5   |
|            |  |  |   |  |   |   |   |  |   |   |  |   |   |  |  |  |   |
|            |  |  |   |  |   |   |   |  |   |   |  |   |   |  |  |  |   |
| type       |  |  |   | TCA  |   |   |   | De   | paree of  | nrotecti  | on   |   |   |  | IP 55  |  |   |
|            |  |  |   |  |   |   |   |  | 0   |   | 011  |   |   |  | IM V1  |  |   |
| Materia    | I  |  |   | Cast Irc   | on  |   |   |  |   |   |  |   |   |  | IC 411   |  |   |
| size       |  |  |   | 355L   |   |   |   |  | -   |   | prox.  |   |   |  | 1909   |  | kg  |
|            |  |  |   | S1   |   |   |   | Gr   | oss weig  | ght - app   | orox.  |   |   |  | 1954   |  | kg  |
| e variatio | on *   |  |   | ± 10%  | 5   |   |   | М  | otor iner   | rtia  |  |   |   |  | 10.1755  |  | kgm <sup>2</sup>  |
| ency vari  | ation *  |  |   | ± 5%   |   |   |   | Lo   | ad inerti   | a   |  |   |   | Custo  | omer to Prov   | ride   |   |
| ned varia  | ation *  |  |   | 10%  |   |   |   | Vi   | bration l   | evel  |  |   |   |  | 2.8  |  | mm/s  |
| 1          |  |  |   | Ν  |   |   |   | No   | oise leve   | l ( 1met  | er distar  | nce fror  | n motor   | .)   | 82   |  | dB(A)   |
| e factor   |  |  |   | 1.0  |   |   |   | No   | o. of star  | ts hot/c  | old/Equ  | ally spr  | ead   |  | 2/3/4  |  |   |
| ion class  |  |  |   | F  |   |   |   | St   | arting m  | ethod   |  |   |   |  | DOL  |  |   |
| nt tempe   | erature  |  |   | -20 to +   | 50  |   | °C  | Ту   | pe of co  | upling  |  |   |   |  | Direct   |  |   |
| erature ri | se (by i   | resistanc  | e)  | 70 [ Class   | 5 B ]   |   | К   | LR   | withsta   | nd time   | (hot/co  | ld)   |   |  | 15/30  |  | S   |
| le above   | sea lev  | el   |   | 1000   |   |   | meter   | Di   | rection o   | of rotati   | on   |   |   | В  | i-directional  |  |   |
| dous area  | a classif  | ication  |   | NA   |   |   |   | St   | andard r  | otation   |  |   |   | Cloc   | kwise form l   | DE   |   |
| Zone cl    | assifica   | tion   |   | NA   |   |   |   | Pa   | int shad  | e   |  |   |   |  | RAL 5014   |  |   |
| Gas gro    | un   |  |   | NA   |   |   |   | Ac   | ressorie  | c   |  |   |   |  |  |  |   |
|            | size<br>e variatio<br>ency varia<br>ned varia<br>e factor<br>tion class<br>ent tempe<br>erature ri<br>de above<br>dous area<br>Zone cl | Conn       [Hz]         Δ       50         type       50         ure       Material         Material       512         size       50         e variation *       50         ency variation *       50         a       50         b       50         a       50         b       50         a       50         b       50         a       50         b       50         b       50         b       50         b       50         c       50         b       50         c       50         c <td< td=""><td>Conn     [Hz]     [kW]       Δ     50     315       Δ     50     315       type    </td><td>Conn     [Hz]     [kW]     [hp]       Δ     50     315     425       Δ     50     315     425       Δ     50     315     425       Δ     50     315     425       L     2     2     2       type     2     2     2       type     315     425     2       type     2     2     2       Material     3     3     3       size     2     2     2       e variation *     4     4     4       ned variation *     4     4     4</td><td>Conn       [Hz]       [kW]       [hp]       [A]         Δ       50       315       425       507.2         Δ       50       315       425       507.2         Type       315       425       507.2         type       TCA       50       50         waterial       Cast Inc       51         size       355L       51         evariation *       ± 10%         ency variation *       ± 5%         ned variation *       10%         a       N         e factor       1.0         tion class       F         ent temperature       -20 to +         erature rise (by resistance)       70 [ Class         above sea level       1000         dous area classification       NA         Zone classification       NA</td><td><math display="block">\begin{array}{ c c c } \hline Conn &amp; [Hz] &amp; [kW] &amp; [hp] &amp; [A] &amp; [RPM] \\ \hline \Delta &amp; 50 &amp; 315 &amp; 425 &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; 425 &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; 425 &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; 425 &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; \hline &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; \hline &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; \hline &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 315 &amp; \hline &amp; 507.2 &amp; 1490 \\ \hline \Delta &amp; 50 &amp; 507.2 &amp; 507.2 &amp; \hline &amp; 507.2 </math></td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]           <math>\Delta</math>         50         315         425         507.2         1490         2031.21           <math>\Delta</math>         50         315         425         507.2         1490         2031.21           <math>\Delta</math>         50         315         425         507.2         1490         2031.21           <math>\Delta</math> <math>\Delta</math></td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Δ         50         315         425         507.2         1490         2031.21         IE3           Δ         50         TCA                 ure         TEFC           Cast Iron                size         355L          S1                    <t< td=""><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL         <math>\Delta</math>       50       315       425       507.2       1490       2031.21       IE3       -         <math>\Delta</math>       50       315       425       507.2       1490       2031.21       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         ure       TEFC       Material       Cast Iron       Material       Gr         size       355L       S1       Gr       Material       Cast Iron       Material       Gr       Material       Gr       Material       Material       Gr       Material       Material       Gr       Material       Material       Gr       Gr       Material       Gr</td><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math>FL<math>\Delta</math>50315425507.214902031.21IE3-96.0<math>\Delta</math>50315425507.214902031.21IE3-96.0typeTCAIE3-96.0IE3-96.0ureTEFCIE6IE6IE6IE6IE6MaterialCast IronCast IronCooling mesize355LIE6Motor weigge variation *<math>\pm</math> 10%IE6Motor inerency variation *<math>\pm</math> 5%IE6IE6in classFIE6Noise levee factor1.0NNoise leveint temperature-20 to +50°Crature rise (by resistance)70 [Class B]Kge acal classificationNAStandard rpon classificationNAPaint shad</td><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math>FL<math>3/4FL</math><math>\Delta</math>50315425507.214902031.21IE3-96.096.0<math>\Delta</math>50315425507.214902031.21IE3-96.096.0<math>\Delta</math>50315425507.214902031.21IE3-96.096.0<math>\Delta</math>50315425507.214902031.21IE3-96.096.0<math>\Delta</math><math>\Delta</math>50TCA<math>\Delta</math>96.096.0<math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math>96.096.0<math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math>96.096.0<math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math>96.0<math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math></td><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math>FL<math>3/4FL</math><math>1/2FL</math><math>\Delta</math>50315425507.214902031.21IE3-96.096.1<math>\Delta</math>50315425507.214902031.21IE3-96.096.1<math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math><math>\Delta</math>typeTCAImage: 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    Δ     50     315       type | Conn     [Hz]     [kW]     [hp]       Δ     50     315     425       Δ     50     315     425       Δ     50     315     425       Δ     50     315     425       L     2     2     2       type     2     2     2       type     315     425     2       type     2     2     2       Material     3     3     3       size     2     2     2       e variation *     4     4     4       ned variation *     4     4     4 | Conn       [Hz]       [kW]       [hp]       [A]         Δ       50       315       425       507.2         Δ       50       315       425       507.2         Type       315       425       507.2         type       TCA       50       50         waterial       Cast Inc       51         size       355L       51         evariation *       ± 10%         ency variation *       ± 5%         ned variation *       10%         a       N         e factor       1.0         tion class       F         ent temperature       -20 to +         erature rise (by 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$\Delta$ | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Δ         50         315         425         507.2         1490         2031.21         IE3           Δ         50         TCA                 ure         TEFC           Cast Iron                size         355L          S1 <t< td=""><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL         <math>\Delta</math>       50       315       425       507.2       1490       2031.21       IE3       -         <math>\Delta</math>       50       315       425       507.2       1490       2031.21       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         ure       TEFC       Material       Cast Iron       Material       Gr         size       355L       S1       Gr       Material       Cast Iron       Material       Gr       Material       Gr       Material       Material       Gr       Material       Material       Gr       Material       Material       Gr       Gr       Material       Gr</td><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math>FL<math>\Delta</math>50315425507.214902031.21IE3-96.0<math>\Delta</math>50315425507.214902031.21IE3-96.0typeTCAIE3-96.0IE3-96.0ureTEFCIE6IE6IE6IE6IE6MaterialCast IronCast IronCooling mesize355LIE6Motor weigge variation *<math>\pm</math> 10%IE6Motor inerency variation *<math>\pm</math> 5%IE6IE6in classFIE6Noise levee factor1.0NNoise leveint temperature-20 to +50°Crature rise (by resistance)70 [Class B]Kge acal classificationNAStandard rpon classificationNAPaint 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Colored color</td><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math>FL<math>3/4FL</math><math>1/2FL</math>FL<math>\Delta</math>50315425507.214902031.21IE3-96.096.096.10.90Label equation e</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       KL       1/2FL       FL       3/4FL       1/2FL       1/2FL       1/2FL       1/2FL</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL         3/4FL         1/2FL         1/2FL</td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>Conn         [H2]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [FL         3/4FL         1/2FL         [FL</td></t<> | Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL $\Delta$ 50       315       425       507.2       1490       2031.21       IE3       - $\Delta$ 50       315       425       507.2       1490       2031.21       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         type       TCA       IE3       -       IE3       -       IE3       -         ure       TEFC       Material       Cast Iron       Material       Gr         size       355L       S1       Gr       Material       Cast Iron       Material       Gr       Material       Gr       Material       Material       Gr       Material       Material       Gr       Material       Material       Gr       Gr       Material       Gr | Conn[Hz][kW][hp][A][RPM][Nm]Class $5/4FL$ FL $\Delta$ 50315425507.214902031.21IE3-96.0 $\Delta$ 50315425507.214902031.21IE3-96.0typeTCAIE3-96.0IE3-96.0ureTEFCIE6IE6IE6IE6IE6MaterialCast IronCast IronCooling mesize355LIE6Motor weigge variation * $\pm$ 10%IE6Motor inerency variation * $\pm$ 5%IE6IE6in classFIE6Noise levee factor1.0NNoise leveint temperature-20 to +50°Crature rise (by resistance)70 [Class B]Kge acal classificationNAStandard rpon classificationNAPaint shad | Conn[Hz][kW][hp][A][RPM][Nm]Class $5/4FL$ FL $3/4FL$ $\Delta$ 50315425507.214902031.21IE3-96.096.0 $\Delta$ 50315425507.214902031.21IE3-96.096.0 $\Delta$ 50315425507.214902031.21IE3-96.096.0 $\Delta$ 50315425507.214902031.21IE3-96.096.0 $\Delta$ $\Delta$ 50TCA $\Delta$ 96.096.0 $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ 96.096.0 $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ 96.096.0 $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ $\Delta$ 96.0 $\Delta$ | Conn[Hz][kW][hp][A][RPM][Nm]Class $5/4FL$ FL $3/4FL$ $1/2FL$ $\Delta$ 50315425507.214902031.21IE3-96.096.1 $\Delta$ 50315425507.214902031.21IE3-96.096.1 $\Delta$ typeTCAImage: Colored color | Conn[Hz][kW][hp][A][RPM][Nm]Class $5/4FL$ FL $3/4FL$ $1/2FL$ FL $\Delta$ 50315425507.214902031.21IE3-96.096.096.10.90Label equation e | Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       KL       1/2FL       FL       3/4FL       1/2FL       1/2FL       1/2FL       1/2FL | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL         3/4FL         1/2FL         1/2FL | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | Conn         [H2]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [FL         3/4FL         1/2FL         [FL |

| Temperature class  | NA                                |  |
|--------------------|-----------------------------------|--|
| Rotor type         | Aluminum Die cast                 |  |
| Bearing type       | Anti-friction ball bearing        |  |
| DE / NDE bearing   | 6322 C3 / 6322 C3                 |  |
| Lubrication method | Regreasable                       |  |
| Type of grease     | Shell Gadus S5 V100 or Equivalent |  |
|                    |                                   |  |

| Accessory - 1                   | -                              |
|---------------------------------|--------------------------------|
| Accessory - 2                   | -                              |
| Accessory - 3                   | -                              |
| Terminal box position           | ТОР                            |
| Maximum cable size/conduit size | 1R x 3C x 300mm²/4 x M63 x 1.5 |
| Auxiliary terminal box          | NA                             |
|                                 |                                |
|                                 |                                |

 $T_{\rm K}/T_{\rm N}$  - Breakdown Torque / Rated Torque

 $I_A/I_N$  - Locked Rotor Current / Rated Current

 $T_A/T_N$  - Locked Rotor Torque / Rated Torque

## NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

\* Voltage, Frequency and combined variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

| Efficiency | Europe | China | India           | Aus/Nz | Brazil | Global IEC |
|------------|--------|-------|-----------------|--------|--------|------------|
| Standards  | -      | -     | IS 12615 : 2018 | -      | -      | -          |



## marathon®

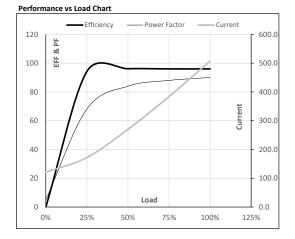


## Model No. TCA3152A3141GACD01

| Enclosure | U   | $\Delta / Y$ | f    | Р    | Р    | I     | n     | Т      | Т       | IE    | Amb  | Duty | Elevation | Inertia              | Weight |
|-----------|-----|--------------|------|------|------|-------|-------|--------|---------|-------|------|------|-----------|----------------------|--------|
|           | (V) | Conn         | [Hz] | [kW] | [hp] | [A]   | [RPM] | [kgm]  | [Nm]    | Class | [°C] |      | [m]       | [kg-m <sup>2</sup> ] | [kg]   |
| TEFC      | 415 | Δ            | 50   | 315  | 425  | 507.2 | 1490  | 207.13 | 2031.21 | IE3   | 50   | S1   | 1000      | 10.1755              | 1909   |
|           |     |              |      |      |      |       |       |        |         |       |      |      |           |                      |        |

#### Motor Load Data

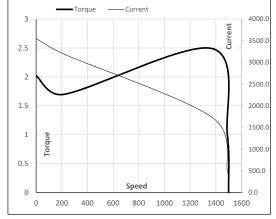
|       | NL               | 1/4FL   | 1/2FL   | 3/4FL  | FL  | 5/4FL  |
|-------|------------------|---|---|--|---|--|
| А     | 121.1            | 171.9   | 270.0   | 383.8  | 507.2   |  |
| Nm    | 0.0              | 505.2   | 1012.0  | 1520.6   | 2031.2  |  |
| r/min | 1500             | 1498  | 1495  | 1493   | 1490  |  |
| %     | 0.0              | 94.2  | 96.1  | 96.0   | 96.0  |  |
| %     | 5.0              | 68.1  | 84.0  | 88.0   | 90.0  |  |
|       | Nm<br>r/min<br>% | A         121.1           Nm         0.0           r/min         1500           %         0.0 | A         121.1         171.9           Nm         0.0         505.2           r/min         1500         1498           %         0.0         94.2 | A         121.1         171.9         270.0           Nm         0.0         505.2         1012.0           r/min         1500         1498         1495           %         0.0         94.2         96.1 | A         121.1         171.9         270.0         383.8           Nm         0.0         505.2         1012.0         1520.6           r/min         1500         1498         1495         1493           %         0.0         94.2         96.1         96.0 | A         121.1         171.9         270.0         383.8         507.2           Nm         0.0         505.2         1012.0         1520.6         2031.2           r/min         1500         1498         1495         1493         1490           %         0.0         94.2         96.1         96.0         96.0 |



#### Motor Speed Torque Data

| Load Point |       | LR     | P-Up   | BD     | Rated | NL    |  |
|------------|-------|--------|--------|--------|-------|-------|--|
| Speed      | r/min | 0      | 214    | 1371   | 1490  | 1500  |  |
| Current    | А     | 3550.6 | 3195.5 | 1734.5 | 507.2 | 121.1 |  |
| Torque     | pu    | 2.0    | 1.7    | 2.5    | 1     | 0     |  |





NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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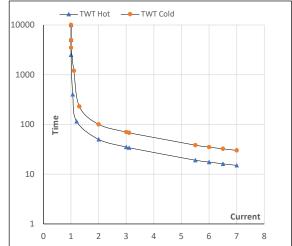
## Model No. TCA3152A3141GACD01

| Enclosure | U   | Δ/Υ  | f    | Р    | Р    | I     | n     | т      | Т       | IE    | Amb  | Duty | Elevation | Inertia              | Weight |
|-----------|-----|------|------|------|------|-------|-------|--------|---------|-------|------|------|-----------|----------------------|--------|
|           | (∨) | Conn | [Hz] | [kW] | [hp] | [A]   | [rpm] | [kgm]  | [Nm]    | Class | [°C] |      | [m]       | [kg-m <sup>2</sup> ] | [kg]   |
| TEFC      | 415 | Δ    | 50   | 315  | 425  | 507.2 | 1490  | 207.13 | 2031.21 | IE3   | 50   | S1   | 1000      | 10.1755              | 1909   |
|           |     |      |      |      |      |       |       |        |         |       |      |      |           |                      |        |

#### Motor Speed Torque Data

| Load     |    | FL    | $I_1$ | I <sub>2</sub> | l <sub>3</sub> | $I_4$ | $I_5$ | LR |
|----------|----|-------|-------|----------------|----------------|-------|-------|----|
| TWT Hot  | s  | 10000 | 50    | 35             | 29             | 23    | 18    | 15 |
| TWT Cold | s  | 10000 | 100   | 70             | 55             | 45    | 35    | 30 |
| Current  | pu | 1     | 2     | 3              | 4              | 5     | 6     | 7  |

### Thermal Characteristics Chart



**NOTE** Refer data sheet for applicable standard and tolerances on performance parameters

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