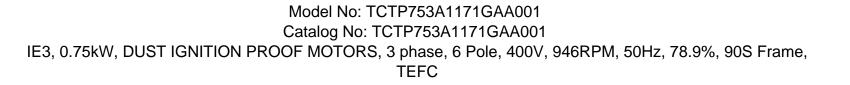
## **PRODUCT INFORMATION PACKET**





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marathon<sup>®</sup>

Motors



# Product Information Packet: Model No: TCTP753A1171GAA001, Catalog No:TCTP753A1171GAA001 IE3, 0.75kW, DUST IGNITION PROOF MOTORS, 3 phase, 6 Pole, 400V, 946RPM, 50Hz, 78.9%, 90S Frame, TEFC

# marathon®

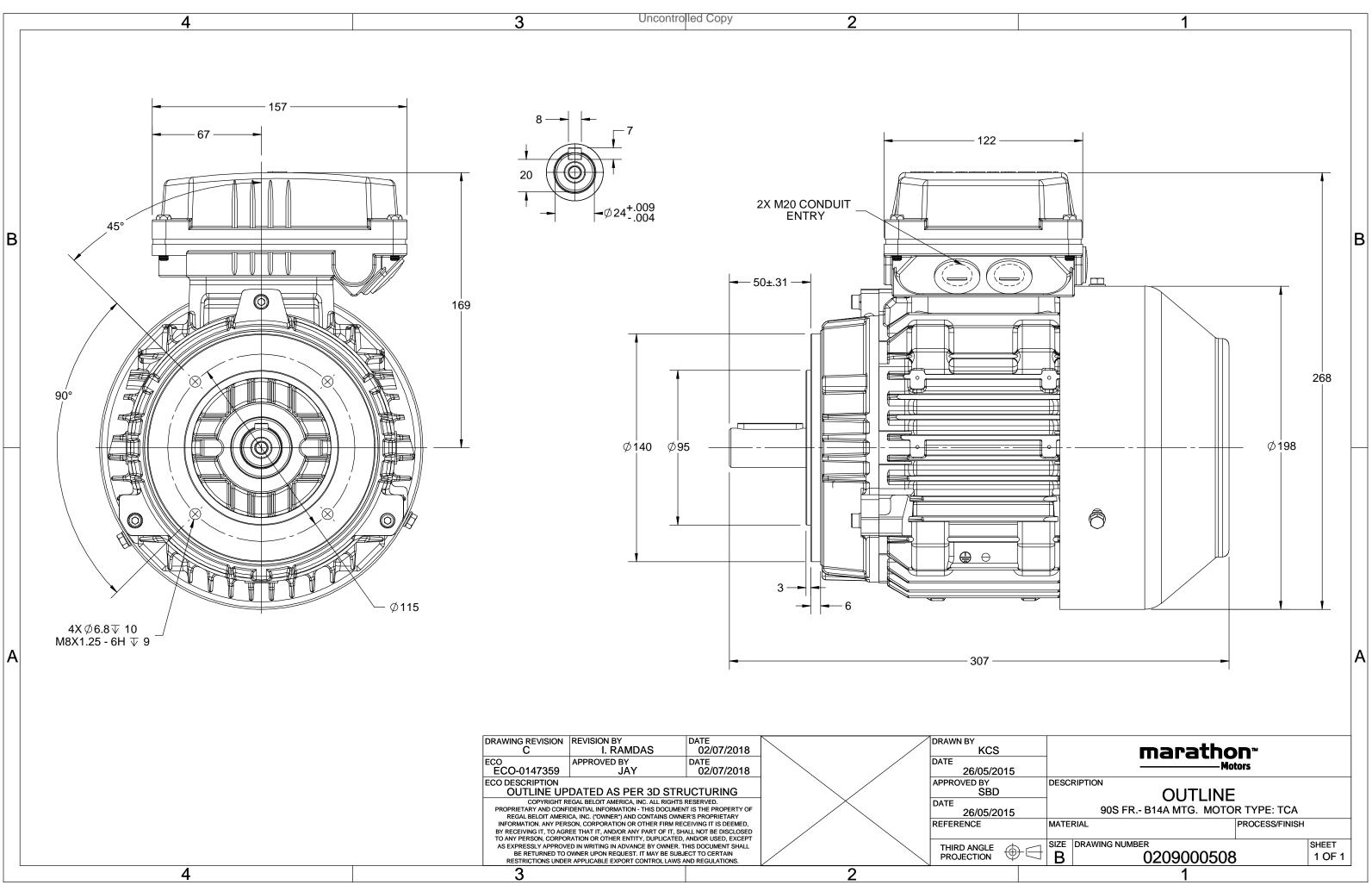
## Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	50 Hz	Voltage	400 V
Current	2.1 A	Speed	946 rpm
Service Factor	1	Phase	3
Efficiency	78.9 %	Power Factor	0.64
Duty	S1	Insulation Class	F
Frame	90S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	No	CSA	Νο
CE	Yes	IP Code	66
Number of Speeds		Efficiency Class	IE3

## **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B14A	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0209000508

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TOP

1R x 3C x 10mm<sup>2</sup>/2 x M20 x 1.5

NA

## Model No. TCTP753A1171GAA001

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   |   |  | I <sub>A</sub> /I <sub>N</sub>  | <i>//</i>  | T <sub>κ</sub> /T <sub>N</sub>  |
| Conn        | [Hz]  | [kW]  | [hp]   
  | [A]  
  | [RPM]  
  | [Nm]   
  | Class   | 5/4FL  | FL  | 3/4FL  | 1/2FL  
  | FL   
   |   | 1/2FL  | [pu]  | [pu]   | [pu]  |
| Y           | 50  | 0.75  | 1  
  | 2.1  
  | 946  
  | 7.53   
  | IE3   | -  | 78.9  | 78.9   | 71.1   
  | 0.64   
   | 0.52  | 0.38   | 4.8   | 3.0  | 3.1   |
|             |   |   |  
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   |   |  | IM B14A   |  |   |
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  | Cast Ire   
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  |  
   |   | IC 411   |   |  |   |
| size        |   |   |  
  | 905  
  |  
  |  
  |   | Motor weight - approx.   |   |  |  
  |  
   | 25  |  | kg  |  |   |
|             |   |   |  
  | S1   
  |  
  |  
  |   | Gross weight - approx.   |   |  |  
  |  
   |   | 26   |   | kg   |   |
| e variatio  | on *  |   |  
  | ± 10%  
  | 6  
  |  
  |   | Motor inertia  |   |  |  
  |  
   | 0.0036  |  | kgm <sup>2</sup>  |  |   |
| ncy varia   | ation *   |   |  
  | ± 5%   
  |  
  |  
  |   | Load inertia   |   | Custo  | omer to Pro  
  | vide   
   |   |  |   |  |   |
| ned varia   | ation *   |   |  
  | 10%  
  |  
  |  
  | Vibration level   |  |   | 1.6  |  
  | mm/s   
   |   |  |   |  |   |
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  |  
  |   | Noise level (1meter distance from motor)   |   | )  | 51   
  |  
   | dB(A)   |  |   |  |   |
| factor      |   |   |  
  | 1.0  
  |  
  |  
  |   | No.  | of star   | ts hot/c   | old/Equ  
  | ally spr   
   | ead   |  | 2/3/4   |  |   |
| ion class   |   |   |  
  | F  
  |  
  |  
  |   | Star   | ting m  | ethod  |  
  |  
   |   |  | DOL   |  |   |
| nt tempe    | erature   |   |  
  | -20 to +   
  | 40   
  |  
  | °C  | Тур  | e of co   | upling   |  
  |  
   |   |  | Direct  |  |   |
| rature ri   | se (by i  | resistanc   | e)   
  | 80 [ Clas  
  | s B ]  
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  | К   | LR v   | vithsta   | nd time  | (hot/co  
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| e above     | sea lev   | el  |  
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| ous area    | a classif   | ication   |  
  | Ex tb  
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  |   | Standard rotation  |   |  | Cloc   
  | ckwise form  
   | DE  |  |   |  |   |
| Zone cla    | assifica  | tion  |  
  | Zone 2   
  | 1  
  |  
  |   | Paint shade  |   |  | RAL 5014   
  |  
   |   |  |   |  |   |
| Gas gro     | up  |   |  
  | Group  
  | 111  
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  |   | Acc  | essorie   | s  |  
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| Temper      | ature o   | class   |  
  | T135   
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| g type      |   |   | A  
  | nti-frictic  
  | n ball   
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  |   |  | Acc   | cessory -  | - 3  
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   |   |  | -   |  |   |
|             | Y<br>type<br>ure<br>Material<br>size<br>e variatio<br>ncy varia<br>e dvaria<br>factor<br>ion class<br>nt tempe<br>rature ri<br>e above<br>ous area<br>Zone cla<br>Gas gro | Conn [Hz]<br>Y 50<br>Y 50<br>Material<br>size<br>e variation *<br>net variation *<br>net variation *<br>temperature<br>rature rise (by r<br>e above sea lev<br>ous area classifi<br>Zone classifica<br>Gas group<br>Temperature of<br>ype | Conn[Hz][kW]Y500.75Y500.75Y500.75Y500.75Haterial11Size11Size11e variation *1not y variation *1Haterial1Size1e variation *1Haterial1Size1e variation *1Haterial1Size1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Size1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial1Haterial <td< td=""><td>Conn[Hz][kW][hp]Y500.751Y500.751Y500.751Y5011Y5011Y5011Y5011Y111Y111Y111Material11Size11YY11Y<!--</td--><td>Conn         [Hz]         [kW]         [hp]         [A]           Y         50         0.75         1         2.1           Y         Y         Y         Y         Y         Y           Y         50         0.75         1         Z.1           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]           Y         50         0.75         1         2.1         946           y         Y         50         1.0         10         10           y         Y<!--</td--><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]           Y         50         0.75         1         2.1         946         7.53           Y         50         0.75         1         7.5         1         1           Y         70         TCT         TCT         Y         1</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Y         50         0.75         1         2.1         946         7.53         IE3           Y         70         TCT         V         V         Y</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9           type         TCT         .</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         TCT         IE3         -         78.9         78.9         78.9           type         TCT         IE3         -         IE3         -         78.9         78.9           type         TCT         IE3         IE3<!--</td--><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math><math>FL</math><math>3/4FL</math><math>1/2FL</math>Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1YY500.7512.19467.53IE3-78.978.971.1YYY<td< td=""><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL</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>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math> <math>1/2FL</math></td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6</td></td<><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         &lt;</td></td></td></td></td></td<> | Conn[Hz][kW][hp]Y500.751Y500.751Y500.751Y5011Y5011Y5011Y5011Y111Y111Y111Material11Size11YY11Y </td <td>Conn         [Hz]         [kW]         [hp]         [A]           Y         50         0.75         1         2.1           Y         Y         Y         Y         Y         Y           Y         50         0.75         1         Z.1           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y</td> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]           Y         50         0.75         1         2.1         946           y         Y         50         1.0         10         10           y         Y<!--</td--><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]           Y         50         0.75         1         2.1         946         7.53           Y         50         0.75         1         7.5         1         1           Y         70         TCT         TCT         Y         1</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Y         50         0.75         1         2.1         946         7.53         IE3           Y         70         TCT         V         V         Y</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9           type         TCT         .</td><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         TCT         IE3         -         78.9         78.9         78.9           type         TCT         IE3         -         IE3         -         78.9         78.9           type         TCT         IE3         IE3<!--</td--><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math><math>FL</math><math>3/4FL</math><math>1/2FL</math>Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1YY500.7512.19467.53IE3-78.978.971.1YYY<td< td=""><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL</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>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math> <math>1/2FL</math></td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6</td></td<><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         &lt;</td></td></td></td> | Conn         [Hz]         [kW]         [hp]         [A]           Y         50         0.75         1         2.1           Y         Y         Y         Y         Y         Y           Y         50         0.75         1         Z.1           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y           Y         Y         Y         Y         Y         Y | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]           Y         50         0.75         1         2.1         946           y         Y         50         1.0         10         10           y         Y </td <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]           Y         50         0.75         1         2.1         946         7.53           Y         50         0.75         1         7.5         1         1           Y         70         TCT         TCT         Y         1</td> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Y         50         0.75         1         2.1         946         7.53         IE3           Y         70         TCT         V         V         Y</td> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -</td> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9           type         TCT         .</td> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         TCT         IE3         -         78.9         78.9         78.9           type         TCT         IE3         -         IE3         -         78.9         78.9           type         TCT         IE3         IE3<!--</td--><td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math><math>FL</math><math>3/4FL</math><math>1/2FL</math>Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1YY500.7512.19467.53IE3-78.978.971.1YYY<td< td=""><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL</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>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math> <math>1/2FL</math></td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6</td></td<><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         &lt;</td></td></td> | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]           Y         50         0.75         1         2.1         946         7.53           Y         50         0.75         1         7.5         1         1           Y         70         TCT         TCT         Y         1 | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class           Y         50         0.75         1         2.1         946         7.53         IE3           Y         70         TCT         V         V         Y | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         -           Y         50         0.75         1         2.1         946         7.53         IE3         - | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9           type         TCT         . | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9           type         TCT         IE3         -         78.9         78.9         78.9           type         TCT         IE3         -         IE3         -         78.9         78.9           type         TCT         IE3         IE3 </td <td>Conn[Hz][kW][hp][A][RPM][Nm]Class<math>5/4FL</math><math>FL</math><math>3/4FL</math><math>1/2FL</math>Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1YY500.7512.19467.53IE3-78.978.971.1YYY<td< td=""><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL</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>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math> <math>1/2FL</math></td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6</td></td<><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         &lt;</td></td> | Conn[Hz][kW][hp][A][RPM][Nm]Class $5/4FL$ $FL$ $3/4FL$ $1/2FL$ Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1Y500.7512.19467.53IE3-78.978.971.1YY500.7512.19467.53IE3-78.978.971.1YYY <td< td=""><td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I</td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL</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>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math>       FL       <math>3/4FL</math> <math>1/2FL</math> <math>1/2FL</math></td><td>Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6</td></td<> <td>Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         &lt;</td> | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         FL           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         78.9         71.1         0.64           Y         50         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         78.9         78.9         71.1         0.64           Y         0         0.75         1         2.1         946         7.53         IE3         -         I | Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       3/4FL | Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class $5/4FL$ FL $3/4FL$ $1/2FL$ | Conn       [Hz]       [kW]       [hp]       [A]       [RPM]       [Nm]       Class       5/4FL       FL       3/4FL       1/2FL       FL       3/4FL       1/2FL       [pu]         Y       50       0.75       1       2.1       946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        946       7.53       IE3       -       78.9       78.9       71.1       0.64       0.52       0.38       4.8         type       TCT        Begree of protection       IP 66       Mounting type       IM B14A         Size       905       Motor weight - approx.       25       25       25       26       0.036       1.6       N030       1.6 | Conn         [Hz]         [kW]         [hp]         [A]         [RPM]         [Nm]         Class         5/4FL         FL         3/4FL         1/2FL         [pu]         < |

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

T<sub>K</sub>/T<sub>N</sub> - Breakdown Torque / Rated Torque

Terminal box position

Auxiliary terminal box

Maximum cable size/conduit size

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

## NOTE

DE / NDE bearing

Type of grease

Lubrication method

ATEX/IEC Ex certified as per IEC/EN 60079-0; IEC/EN 60079-31

All performance values at rated voltage and frequency.

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

6205-2Z / 6205-2Z

Greased for life

NA

\* Voltage, Frequency and combine 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
 GB 18613-2012 Grade 2
 IEC: 60034-30

REGAL

## marathon®



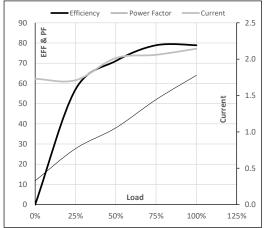
## Model No. TCTP753A1171GAA001

Enclosure	U	$\Delta / Y$	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	400	Y	50	0.75	1.0	2.1	946	0.77	7.53	IE3	40	S1	1000	0.0036	25

## Motor Load Data

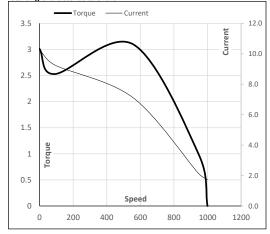
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	1.7	1.7	2.0	2.1	2.1	
Torque	Nm	0.0	1.8	3.7	5.6	7.5	
Speed	r/min	1000	986	974	961	946	
Efficiency	%	0.0	57.0	71.1	78.9	78.9	
Power Factor	%	11.8	27.7	38.0	52.0	64.0	
10000110000	70	11.0	27.7	55.0	52.0	04.0	

#### Performance vs Load Chart



Motor Speed Torque Data											
Load Point		LR	P-Up	BD	Rated	NL					
Speed	r/min	0	91	556	946	1000					
Current	А	10.3	9.3	7.1	2.1	1.7					
Torque	pu	3.0	2.5	3.1	1	0					

### Starting Characteristics Chart



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

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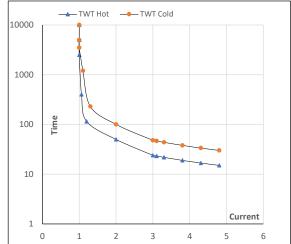
### Model No. TCTP753A1171GAA001

Enclosure	U	$\Delta / Y$	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	400	Y	50	0.75	1.0	2.1	946	0.77	7.53	IE3	40	S1	1000	0.0036	25

### Motor Speed Torque Data

Load		FL	$I_1$	I <sub>2</sub>	I <sub>3</sub>	$I_4$	I <sub>5</sub>	LR
TWT Hot	s	10000	50	24	20	18	16	15
TWT Cold	s	10000	100	48	40	35	32	30
Current	pu	1	2	3	3.5	4	4.5	4.8

### Thermal Characteristics Chart



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

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