

# ALPHA



## Technical Data Sheet

**Model** T1C 180M-4

|                          |           |                            |
|--------------------------|-----------|----------------------------|
| <b>Housing material</b>  |           | Casting iron               |
| <b>Phase</b>             |           | Three                      |
| <b>Frame size</b>        |           | 180                        |
| <b>Power(50Hz)</b>       | kW        | 18.50                      |
| <b>Current(A)400V</b>    | Δ         | 33.98                      |
| <b>Current(A)690V</b>    | Y         | 19.70                      |
| <b>Speed(50Hz)</b>       | (r/min)   | 1450                       |
| <b>Efficiency</b>        | IE1       |                            |
|                          | Eff.100%  | 89.30                      |
|                          | Eff.75%   | 90.60                      |
|                          | Eff.50%   | 89.30                      |
| <b>Power factor cosφ</b> | 100% load | 0.88                       |
| <b>60Hz 460/793V</b>     | Power(kW) | 21.28                      |
| <b>60Hz 480/830V</b>     | Power(kW) | 22.20                      |
| <b>Speed(60Hz)</b>       | (r/min)   | 1740                       |
| <b>Regulations</b>       |           | IEC / DIN / ISO / VDE / EN |
| <b>Standard</b>          |           | IEC 60034                  |
| <b>Ambient Temp.</b>     |           | -20°C ~ +40°C              |
| <b>Maximum altitude</b>  |           | 1000 m above sea level     |

|   |                   |
|---|-------------------|
| <b>Rated torque(N.m)</b>                    | 121.84            |
| <b>Tst/Tn (Times)</b>                       | 2.2               |
| <b>Tmax/Tn (Times)</b>                      | 2.6               |
| <b>Tmin/Tn (Times)</b>                      | 1.6               |
| <b>Ist/In (Times)</b>                       | 8                 |
| <b>Bearings type(DE)</b>                    | 6311C3            |
| <b>Bearings type(NDE)</b>                   | 6311C3            |
| <b>Oil seals</b>                            | 55*75*8           |
| <b>Cable glands</b>                         | 2-M32*1.5         |
| <b>Insulation class</b>                     | F                 |
| <b>Protection degree</b>                    | IP 55             |
| <b>Thermal protection</b>                   | Without           |
| <b>Rotation direction</b>                   | Clockwise         |
| <b>Service duty</b>                         | S1                |
| <b>Balance</b>                              | Half-key balanced |
| <b>Cooling</b>                              | IC 411            |
| <b>Noise dB(A)</b>                          | 76                |
| <b>Net weight(kg)</b>                       | 149.50            |
| <b>Moment of inertia (kg*m<sup>2</sup>)</b> | 0.140840000       |



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