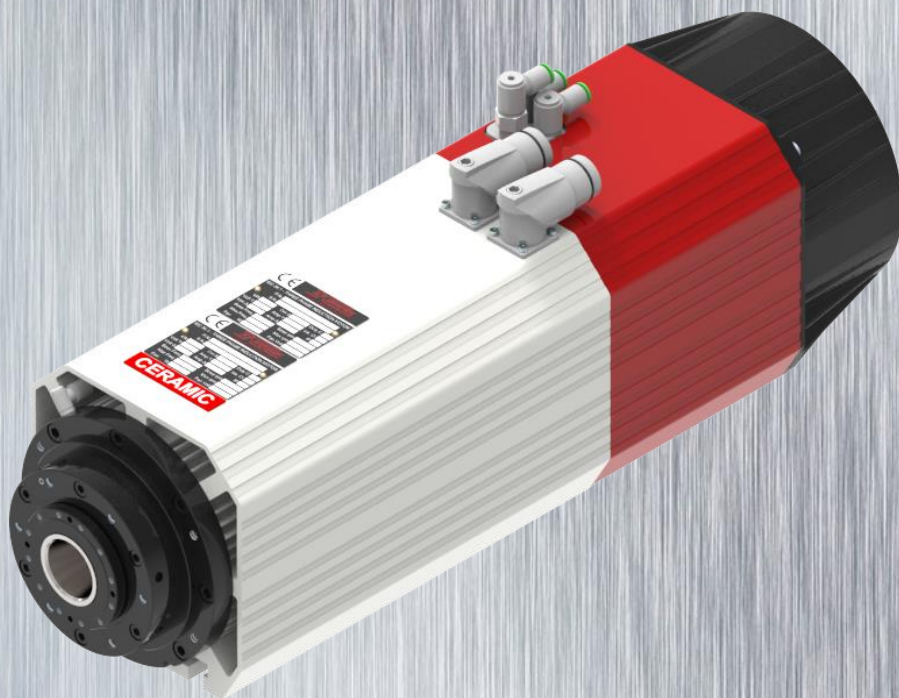


# TEK NOMOTOR

## AUTOMATIC TOOL CHANGER ATC 71 CATALOGUE

RELEASE 1.0



High performance

[www.teknomotor.com](http://www.teknomotor.com)

[Next page – Avanti](#)



**TEKNOMOTOR s.r.l.**

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[info@teknomotor.com](mailto:info@teknomotor.com)[www.teknomotor.com](http://www.teknomotor.com)**L'AZIENDA**

Fondata nel 1983 la società Teknomotor s.r.l. progetta e produce da oltre 30 anni motori elettrici ed elettromandri per applicazioni meccaniche. Azienda in costante espansione, Teknomotor s.r.l. è attualmente impegnata sul mercato mondiale come fornitore di importanti aziende costruttrici di macchine per la lavorazione del legno, PVC e alluminio.

All'unità produttiva principale di Quero (BL) è stata recentemente affiancata un'ulteriore sede dedicata esclusivamente all'assemblaggio e collaudo finale dei motori. Tutte le fasi della produzione si avvalgono delle più avanzate tecnologie in materia di sistemi di disegno CAD, macchine utensili a controllo numerico e banchi prova computerizzati. Le lavorazioni meccaniche sono effettuate all'interno, in modo da garantire un costante controllo del processo produttivo unito ad un elevato grado di flessibilità che ci permette di soddisfare commesse di grande e piccola serie. A ciò si aggiunge un'attenta scelta dei fornitori esterni, nostri partner commerciali, al fine di garantire un prodotto esente da difetti e di qualità superiore.

Fin dalla nascita Teknomotor s.r.l. si è distinta per la cortesia nei confronti della propria clientela e per la disponibilità nello sviluppare nuove soluzioni in stretta collaborazione con il committente.

**COMPANY**

Founded in 1983 Teknomotor s.r.l. has for over 30 years designed and developed electric motors and electrospindles for mechanical applications. As a constant growing Company, Teknomotor s.r.l. is currently engaged on worldwide market as supplier of important Companies specialized in the construction of machinery for the working of wood, PVC and aluminum. The established headquarters in Quero (BL) Italy, was recently enlarged with a new building dedicated exclusively to the assembly and final test of the motors. All the production phases use, at every stage, advanced technologies to ensure maximum quality, such as the CAD design software, machine tool with numeric control and computerized trials. The mechanical operations are carried out internally, in order to guarantee a constant control of the productive process and a high level of flexibility, which allows both large and small commissions to be fulfilled.

A careful selection of external suppliers, commercial partners, is made in order to guarantee an high quality product without defects.

From its birth Teknomotor s.r.l. has distinguished it self for the courtesy it shows its clients and for the commitment it has to develop new solutions in close collaboration with the buyer.

**FIRMA**

Die Firma Teknomotor s.r.l. wurde im Jahr 1983 gegründet. Seit mehr als 30 Jahren plant und produziert sie elektrische Motoren und Spindeln für mechanische Anwendungen. Teknomotor s.r.l. hat eine ständige Expansion bekannt und sie ist im Moment mit dem Weltmarkt beschäftigt. Sie versorgt mit ihren Motoren, wichtige und bekannte Firmen, die Holz-, PVC- und Aluminiummaschinen bauen. Der Hauptsitz in Quero (BL) war vor kurzem erweitert. In dem neuen Gebäude wird die Montage und die Prüfung gemacht. Vorgeschrittene Technologie wird benutzt, um die Qualität immer zu verbessern, wie z.B. CAD Plansysteme, numerische Kontrolle- Maschinen und computerisierte Prüfstände. Vorgeschrittene Technologie wird benutzt, um die Qualität immer zu verbessern, wie z.B. CAD Plansysteme, numerische Kontrolle- Maschinen und computerisierte Prüfstände. Die ganzen mechanischen Bearbeitungen sind in der Firma realisiert, so eine ständige Kontrolle der Produktion und hohe Flexibilität sind garantiert. Sowohl die kleinen Bestellungen als auch die größere können ohne Probleme erfüllt werden.

Es wird außerdem eine aufmerksame Wahl der Lieferanten, um ein Produkt ohne Defekte und von höherer Qualität zu garantieren. Von Geburt hat Teknomotor s.r.l. für ihre Höflichkeit und ihre Verfügung sich unterschieden, so sie, sehr schnell, immer neue Lösungen in Zusammenarbeit mit den Kunden vorschlagen und entwickeln kann.

# AUTOMATIC TOOL CHANGERS GENERAL FEATURES

## GENERAL INFORMATION

The Automatic Tool Changer electrospindle (ATC) have been designed to develop high speeds and powers with limited overall dimensions.

The standard models operate between 3000 rpm and 24000 rpm. The powers go from 3.8 to 12.0 kW.

These features make them ideal for use on automatic machines for machining wood, aluminum alloys and plastics.

ATCs are used mainly on CNC routers, machines for drilling, and for automation in general (Electrospindle mounted directly on anthropomorphic robot).

ATCs are cooled by an industrial electric fan 230V AC 50-60 Hz. On customer's request they can be cooled by compressed air using a special kit.

ATCs are pneumatically sealed and thus protected against the entry of any type of contaminants.

The stiffness of mechanical components, the speed of tool changing and the goodness of electrical components are key features of the ATC, which is produced by Teknomotor as a best in class product, for the most demanding costumers.

## INFORMAZIONI GENERALI

Gli elettromandri con cambio utensile automatico (ATC - Automatic tool changers) sono stati progettati per sviluppare elevate velocità e potenze unite ad un ingombro limitato.

I modelli standard operano tra 3000 rpm e 24000 rpm. Le potenze disponibili variano tra 3.8 kW e 12.0 kW.

Queste caratteristiche li rendono ideali per l'impiego su macchine per la lavorazione del legno, delle leghe di alluminio e delle materie plastiche.

Gli ATC vengono impiegati prevalentemente nel settore delle macchine CNC routers, delle foratrici, dell'automazione in generale (Elettromandrino montato direttamente su robot antropomorfo).

Per le loro caratteristiche costruttive gli elettromandri sopportano un carico di tipo assiale, radiale o misto.

Gli ATC sono raffreddati per mezzo di un'elettroventola 230V-AC 50-60Hz di tipo industriale. Su richiesta possono essere raffreddati da aria compressa tramite un apposito kit.

Gli ATC sono pressurizzati e quindi protetti contro l'ingresso di qualsiasi tipo di contaminanti.

La rigidità dei suoi componenti, la velocità di cambio utensile e la qualità dei componenti elettrici sono caratteristiche peculiari di questo elettromandrino, che Teknomotor realizza come prodotto di prima scelta, per i clienti più esigenti.

## ALLGEMEINE INFORMATIONEN

Die Elektrospindeln mit automatischem Werkzeugwechsel (genannt ATC = Automatic Tool Changers) wurden ausgelegt, um bei einem beschränkten Raumbedarf hohe Geschwindigkeiten bzw. Leistungen zu erreichen.

Die Standardmodelle sind zwischen 3000 und 24000 U/min tätig. Die verfügbaren Leistungen variieren zwischen 3.8 kW und 12.0 kW).

Dafür sind sie für den Einsatz an Maschinen für die Holz- bzw. Aluminiumlegierungs- und Kunststoffbearbeitung geeignet.

Die ATC kommen vorwiegend im Bereich CNC Routers, Bohrmaschinen und in der Automation im Allgemeinen (Elektrospindel direkt auf dem anthropomorphen Roboter installiert) zum Einsatz.

Dank ihrer Bauweise können die Elektrospindel einer radialen, axialen und miteinander kombinierten Belastung standhalten.

Die ATC werden mittels eines Elektroventils von 230V AC 50-60 Hz (industrieller Typ) gekühlt. Auf Anforderung können von einem Spezialset abgekühlt werden.

Da die ATC mit Luftdruck beaufschlagt werden, werden sie gegen den Eintritt von kontaminierenden Substanzen geschützt.

Die Steifigkeit ihrer Bauelemente, die Geschwindigkeit des Werkzeugwechsels und die Qualität der elektrischen Komponenten gehören zu den typischen Eigenschaften dieser Elektrospindel, die Teknomotor als Produkt erster Wahl für anspruchsvolle Kunden realisiert.

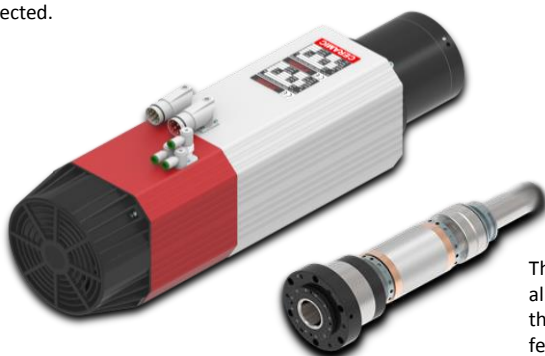
## MAIN CHARACTERISTICS

The compact design of the frame permits the ATC71 to be mounted in small spaces.

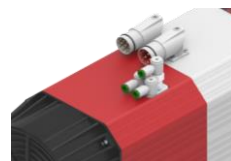
All connectors are well ordered. The signal connector is separated from the power connector to prevent electromagnetic noise. All the sensors connectors are shielded and IP54 protected.



The electric fan ensures a constant cooling at every speed. All items are supplied with serial number and part number which refers to the mechanical and electrical test.



The smart design allows to replace the cartridge in a few steps.



The frame is robust and compact; it is designed to be stiff and light. The nose is pneumatically sealed against dust.

The ceramic bearings assure high speeds, up to 24000 rpm.



| TECHNICAL<br>FEATURES TABLE        | STATOR                    |            | ROTOR            |                    | SHAPE                                     | COOLING                 | PROTECTION<br>GRADE |
|------------------------------------|---------------------------|------------|------------------|--------------------|-------------------------------------------|-------------------------|---------------------|
|                                    | TYPE                      | INSULATION | TYPE             | BALANCING<br>GRADE |                                           |                         |                     |
| Automatic tool<br>changers (ATC71) | Asynchronous,<br>3 phases | F class    | Squirrel<br>cage | 2.5<br>(ISO 1940)  | Closed, from extruded<br>aluminum profile | Electric fan<br>cooling | IP 54               |

The electrospindles conform to the EMC EEC 89/336 directive, and to the EEC 89/392 machines directive.

Moreover, the electrospindle cannot be put into service before the machine into which it is incorporated is declared to be in line with the second mentioned directive.

Gli elettromandri sono conformi alla direttiva EMC CEE 89/336 e alla direttiva macchine CEE 89/392 assumendo per quest'ultima che l'elettromandrino non può essere messo in servizio prima che la macchina, in cui sarà incorporato, sia stata dichiarata conforme alle disposizioni.

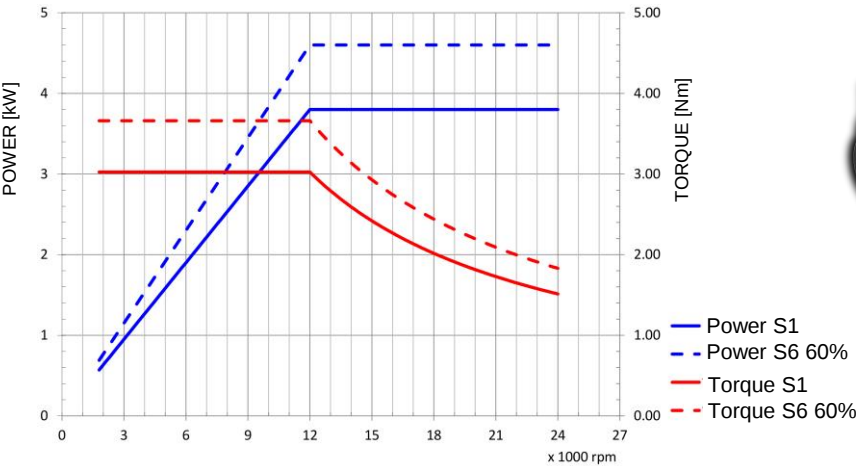
Die Elektrospindel entsprechen der EMV-Richtlinie EWG 89/336 und der Maschinenrichtlinie EWG 89/392. Diese letzte Norm setzt voraus, dass der Motor erst dann in Betrieb gesetzt werden darf, wenn die Maschine, in die er eingebaut wird, die dafür vorgesehenen Richtlinien erfüllt.

| ATC71 ELECTROSPINDLES |                                       |                                       |                                        |                                        |                                        |                                        |
|-----------------------|---------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Power<br>Nose         | 3.8/4.6 kW<br>380V<br>2 poles         | 5.0/6.0 kW<br>380V<br>4 poles         | 5.5/6.6 kW<br>380V<br>2 poles          | 7.5/9.0 kW<br>380V<br>4 poles          | 7.5/9.0 kW<br>380V<br>2 poles          | 10.0/12.0 kW<br>380V<br>4 poles        |
| ISO30-SN              | COMTC710001<br><a href="#">Pag. 6</a> | COMTC710020<br><a href="#">Pag. 7</a> | COMTC710004<br><a href="#">Pag. 10</a> | COMTC710022<br><a href="#">Pag. 11</a> | COMTC710003<br><a href="#">Pag. 18</a> | COMTC710024<br><a href="#">Pag. 19</a> |
| ISO30-LN              | COMTC710007<br><a href="#">Pag. 8</a> | COMTC710021<br><a href="#">Pag. 9</a> | COMTC710008<br><a href="#">Pag. 12</a> | COMTC710014<br><a href="#">Pag. 13</a> | COMTC710009<br><a href="#">Pag. 20</a> | COMTC710025<br><a href="#">Pag. 21</a> |
| HSK63F-SN             | -                                     | -                                     | COMTC710023<br><a href="#">Pag. 14</a> | COMTC710018<br><a href="#">Pag. 15</a> | COMTC710028<br><a href="#">Pag. 22</a> | COMTC710026<br><a href="#">Pag. 23</a> |
| HSK63F-LN             | -                                     | -                                     | COMTC710006<br><a href="#">Pag. 16</a> | COMTC710015<br><a href="#">Pag. 17</a> | COMTC710005<br><a href="#">Pag. 24</a> | COMTC710027<br><a href="#">Pag. 25</a> |

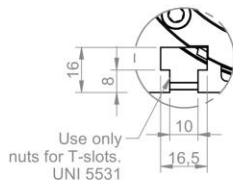
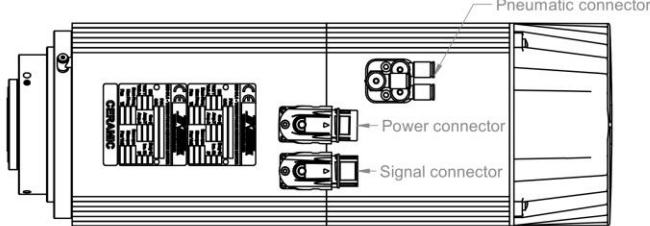
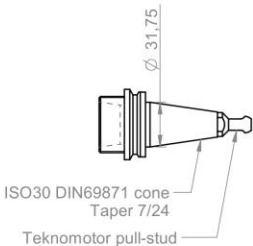
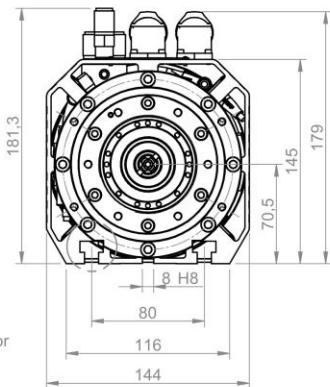
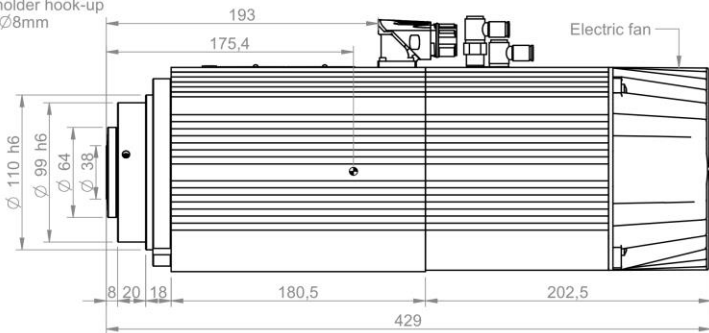
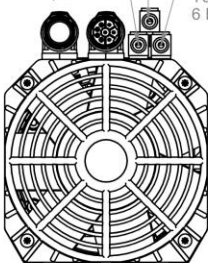
| ACCESSORIES FOR ATC71 ELECTROSPINDLES |                         |
|---------------------------------------|-------------------------|
| CABLE SETS                            | <a href="#">Pag. 26</a> |
| TOOLHOLDERS, COLLETS and NUTS         | <a href="#">Pag. 27</a> |
| FORKS and INVERTERS                   | <a href="#">Pag. 28</a> |

ATC71-A-ISO30-SN

ATC71-A TORQUE AND POWER CURVES



Tool-holder release 6 bar Ø8mm  
Pressurization 6 bar Ø8mm (Automatic cone cleaning included)  
Tool-holder hook-up 6 bar Ø8mm



| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

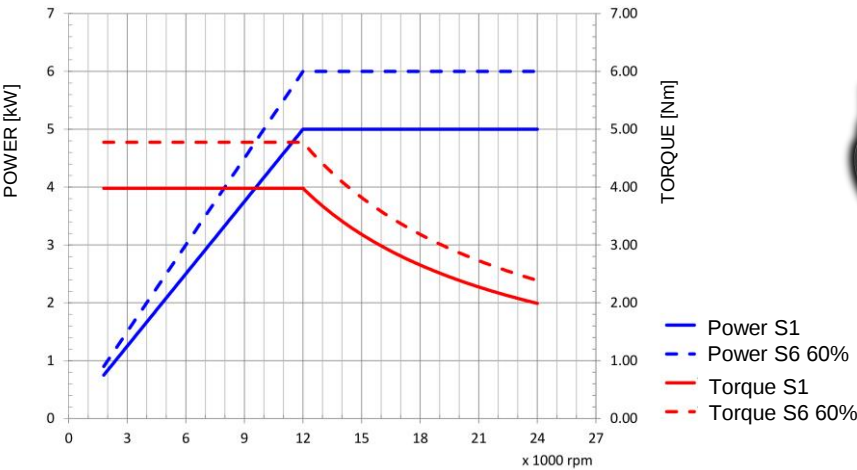
| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | not used |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |         |            |            |                  |       |                 |     |                          |     |             |      |               |   |
|-------------------------------------------------------------------------------------------------------|---------|------------|------------|------------------|-------|-----------------|-----|--------------------------|-----|-------------|------|---------------|---|
| Power [kW]                                                                                            | 3.8/4.6 | Duty Cycle | S1/S6-60 % | Base speed [rpm] | 12000 | Base freq. [Hz] | 200 | Base voltage Δ [V]       | 380 | Protection  | IP54 | Ins. Cl.      | F |
| Min speed [rpm]                                                                                       |         | 3000       |            | Max speed [rpm]  |       | 24000           |     | Max freq. [Hz]           |     | 400         |      | Absorb. Δ [A] |   |
| Absorb. Y [A]                                                                                         |         | 8.3/10.0   |            | Absorb. Y [A]    |       | 8.3/10.0        |     | Part number on nameplate |     | COMTC710001 |      |               |   |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   |         |            |            | Balancing type   |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
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| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            | Tool type        |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
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| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            | Tool type        |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            | Tool type        |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            | Tool type        |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            | Tool type        |       |                 |     | Tool type                |     | Tool type   |      | Tool type     |   |
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| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |         |            |            |                  |       |                 |     |                          |     |             |      |               |   |

|                                                                                    |  |
|------------------------------------------------------------------------------------|--|
| <b>TEKNOMOTOR</b>                                                                  |  |
| Teknomotor S.r.l.<br>Via Argentea 31, I-32038 Quero Vas (BL)<br>www.teknomotor.com |  |
| Title<br>ATC71-A-ISO30-SN                                                          |  |
| Customer<br>Catalogo                                                               |  |
| Drawing code<br>COMTC710001                                                        |  |
| Drawing n°<br>2673                                                                 |  |
| foglio / sheet<br>1 / 1                                                            |  |
| scala<br>n.d.                                                                      |  |
| A4                                                                                 |  |

ATC71-A-ISO30-SN

ATC71-A TORQUE AND POWER CURVES



Motor code: **COMTC710020**

Power S1: 5.0 Kw (S1) @12000 rpm

Power S6: 6.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

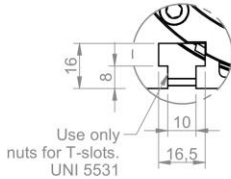
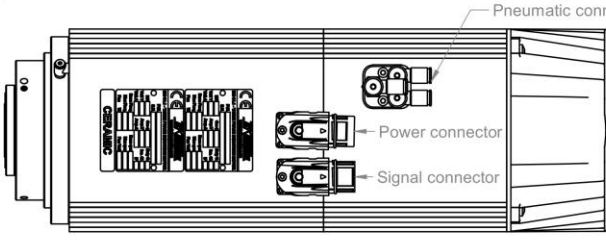
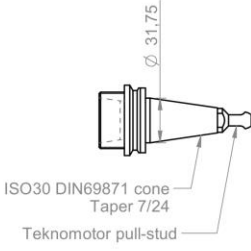
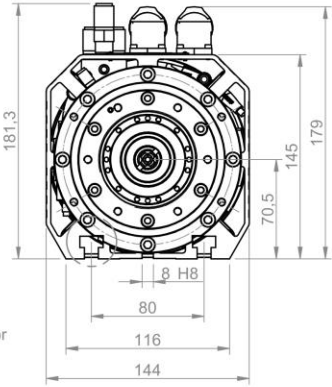
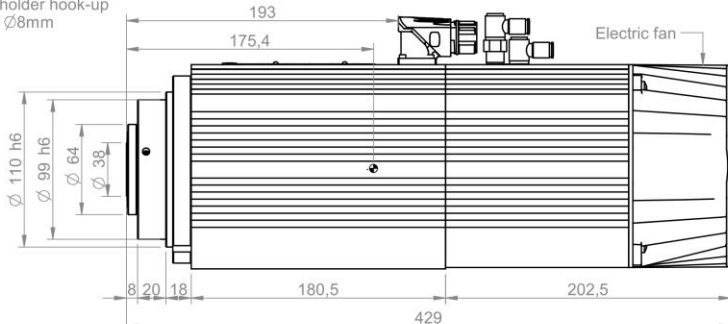
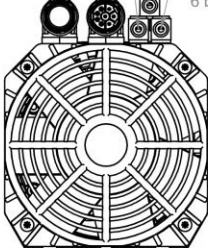
Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear

Tool-holder release 6 bar Ø8mm

Pressurization 6 bar Ø8mm  
(Automatic cone cleaning included)

Tool-holder hook-up  
6 bar Ø8mm



| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

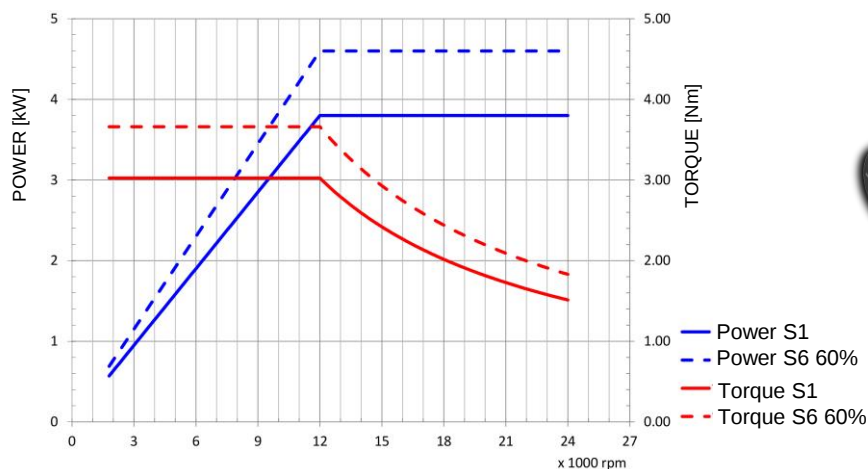
| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | not used |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                                                                                        |         |                      |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|-----------|------------------|-------|----------------------|-----|--------------------|-----|--------------------|-----|---------------|------|-------------------------------------------------------------------------------------|---|---------------|--|-------------------------------------------------------------------------------------|--|--------------------------|--|-------------------------------------------------------------------------------------|--|---------------|--|-------------------------------------------------------------------------------------|--|
| Power [kW]                                                                                                                                                             | 5.0/6.0 | Duty Cycle           | S1/S6 60% | Base speed [rpm] | 12000 | Base freq. [Hz]      | 400 | Base voltage Δ [V] | 380 | Base voltage Y [V] | 380 | Protection    | IP54 | Ins. Cl.                                                                            | F |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| Min speed [rpm]                                                                                                                                                        |         | 3000                 |           | Max speed [rpm]  |       | 24000                |     | Max freq. [Hz]     |     | 800                |     | Absorb. Δ [A] |      | 12.0/14.0                                                                           |   | Absorb. Y [A] |  | 12.0/14.0                                                                           |  | Part number on nameplate |  | COMTC710020                                                                         |  | Peso / weight |  | 25.54 kg                                                                            |  |
| Balancing: G2.5 - ISO 1940 @ maximum motor speed                                                                                                                       |         |                      |           | Balancing type   |       |                      |     |                    |     |                    |     | Food type     |      |  |   | Food type     |  |  |  | Food type                |  |  |  | Food type     |  |  |  |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm                                                                  |         |                      |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| $\overline{\overline{w}} = 0.8 \sqrt[3]{\overline{w}}$ $\overline{\overline{w}} = 3.2 \sqrt[3]{\overline{w}}$ $\nabla = 12.5 \sqrt[3]{\nabla}$ $\sim = \sqrt[3]{\sim}$ |         |                      |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| rev. n°                                                                                                                                                                |         | description          |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   | date          |  | signature                                                                           |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| 00                                                                                                                                                                     |         | Emissione            |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   | 10/01/2017    |  | D. Bottarel                                                                         |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
|                                                                                                                                                                        |         |                      |           |                  |       |                      |     |                    |     |                    |     |               |      |                                                                                     |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| drawn - date                                                                                                                                                           |         | approved - date      |           |                  |       | checked - date       |     |                    |     | sostituisce il     |     |               |      | sostituito dal                                                                      |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |
| D. Bottarel - 05/08/2014                                                                                                                                               |         | S. Peri - 05/08/2014 |           |                  |       | S. Peri - 05/08/2014 |     |                    |     | sostituisce il     |     |               |      | sostituito dal                                                                      |   |               |  |                                                                                     |  |                          |  |                                                                                     |  |               |  |                                                                                     |  |

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
| <b>TEKnomotor</b>                                                                   |  |
| Teknomotor S.r.l.<br>Via Argentea 31, I-32038 Quero Vaso (BL)<br>www.teknomotor.com |  |
| Title<br>ATC71-A-ISO30-SN-4P                                                        |  |
| Customer<br>Catalogo                                                                |  |
| Drawing code<br>COMTC710020                                                         |  |
| Drawing n°<br>2673                                                                  |  |
| A4                                                                                  |  |

**ATC71-A-ISO30-LN**

### ATC71-A TORQUE AND POWER CURVES



Motor code: **COMTC710007**

Power S1: 3.8 Kw (S1) @12000 rpm

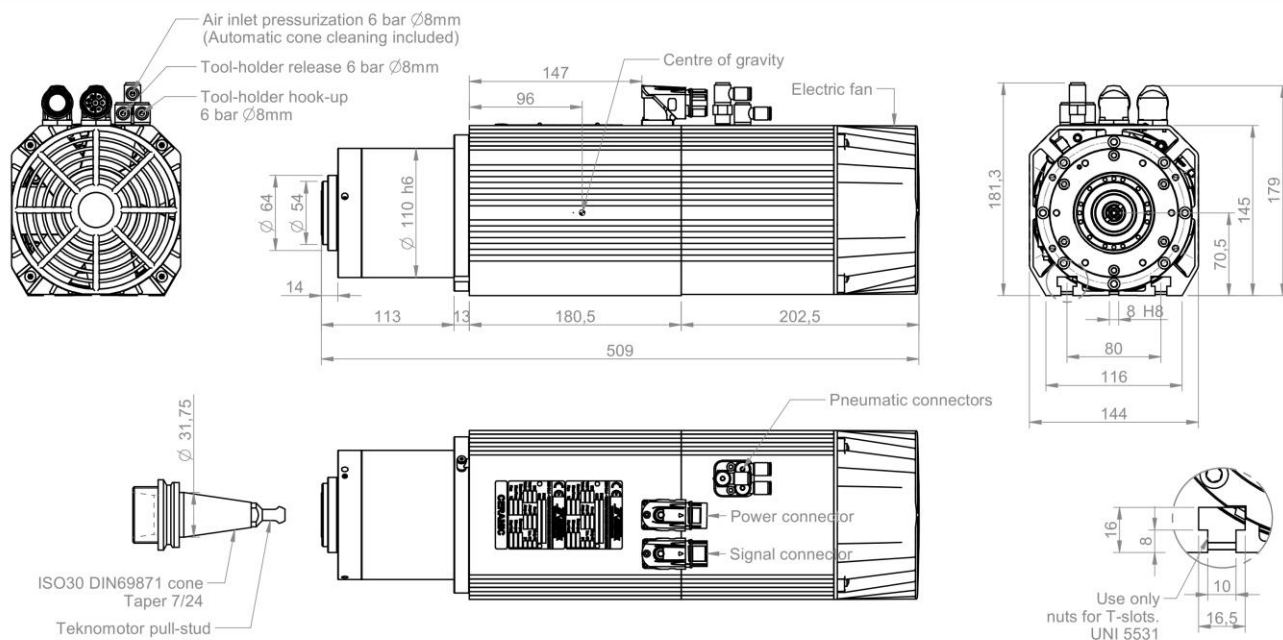
Power S6: 4.6 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 2

Max speed: 24000 rpm @ 400 Hz

Bearings: Ceramic, front and rear



| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

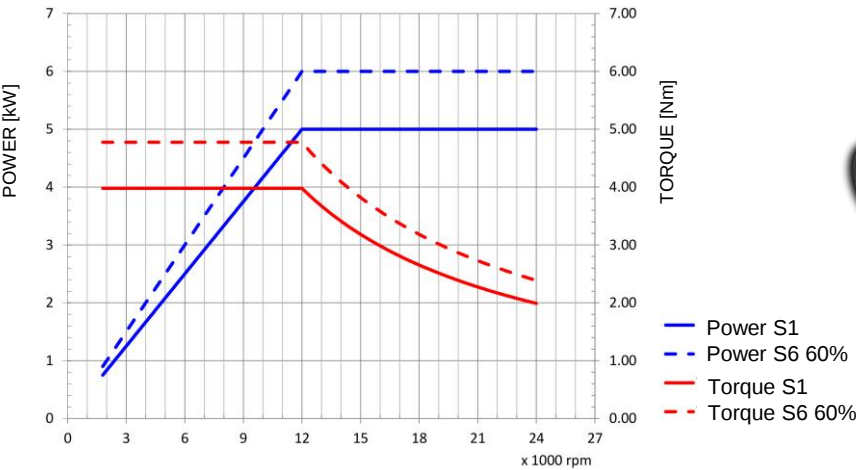
| Signal connector |               |
|------------------|---------------|
| 1                | S1            |
| 2                | S2            |
| 3                | S3 tachometer |
| 4                | not used      |
| 5                | S5            |
| 6                | 0 V           |
| 7                | +24V DC       |

|                                                                                                                            |                        |                              |                                                                                     |                                                                                     |                                 |                       |                 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|-----------------------|-----------------|
| <b>Power [kW]</b>                                                                                                          | <b>Duty Cycle</b>      | <b>Base speed [rpm]</b>      | <b>Base freq. [Hz]</b>                                                              | <b>Base voltage Δ [V]</b>                                                           | <b>Base voltage Y [V]</b>       | <b>Protection</b>     | <b>Ins. Cl.</b> |
| <b>3.8/4.6</b>                                                                                                             | <b>S1/S6-60 %</b>      | <b>12000</b>                 | <b>200</b>                                                                          |                                                                                     | <b>380</b>                      | <b>IP54</b>           | <b>F</b>        |
| <b>Min speed [rpm]</b>                                                                                                     | <b>Max speed [rpm]</b> | <b>Max freq. [Hz]</b>        | <b>Absorb. Δ [A]</b>                                                                | <b>Absorb. Y [A]</b>                                                                | <b>Part number on nameplate</b> |                       |                 |
| <b>3000</b>                                                                                                                | <b>24000</b>           | <b>400</b>                   |                                                                                     | <b>8.3/10.0</b>                                                                     | <b>COMTC710007</b>              |                       |                 |
| <b>Balancing: G2.5 - ISO 1940</b>                                                                                          |                        | <b>Balancing type</b>        | <b>Lead type Δ (A key)</b>                                                          | <b>Lead type Y (B key)</b>                                                          | <b>Peso / weight</b>            |                       |                 |
| <b>Δ maximum motor speed</b>                                                                                               |                        |                              |  |  | <b>26.34 kg</b>                 |                       |                 |
| <b>Tolerance: non qualified / unlisted tolerances: ±0.5mm</b><br><b>Smussi non qualificati / unlisted chamfers: ±0.5mm</b> |                        |                              |                                                                                     |                                                                                     |                                 |                       |                 |
|                                                                                                                            |                        |                              | <b>▽ = 6.8 /</b>                                                                    | <b>▽ = 3.2 /</b>                                                                    | <b>▽ = 12.5 /</b>               | <b>~ = ∅ /</b>        |                 |
| <b>rev. n°</b>                                                                                                             | <b>description</b>     |                              |                                                                                     |                                                                                     | <b>date</b>                     | <b>signature</b>      |                 |
| <b>00</b>                                                                                                                  | <b>Emissione</b>       |                              |                                                                                     |                                                                                     | <b>03/09/2014</b>               | <b>D. Bottarelli</b>  |                 |
| <b>drawn - date</b>                                                                                                        |                        | <b>approved - date</b>       |                                                                                     | <b>checked - date</b>                                                               |                                 | <b>sostituisce il</b> |                 |
| <b>D. Bottarelli - 03/09/2014</b>                                                                                          |                        | <b>S. Perli - 03/09/2014</b> |                                                                                     | <b>S. Perli - 03/09/2014</b>                                                        |                                 | <b>sostituito dal</b> |                 |

|                                                                                                                             |              |                                                                                       |           |
|-----------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|-----------|
|                                        |              |                                                                                       |           |
| Teknomotor S.r.l.<br>Via Argengia 31, I-52038 Quero Vias (BL)<br><a href="http://www.teknomotor.com">www.teknomotor.com</a> |              |                                                                                       |           |
| Title<br><b>ATC71-A-ISO30-LN</b>                                                                                            |              |                                                                                       |           |
| Customer<br><b>Catalogo</b>                                                                                                 |              |                                                                                       |           |
| Drawing code<br><b>COMTC710007</b>                                                                                          |              | Drawing n°<br><b>3294</b>                                                             |           |
| foglio / sheet<br>1 / 1                                                                                                     | scale<br>1:4 |  | <b>A4</b> |

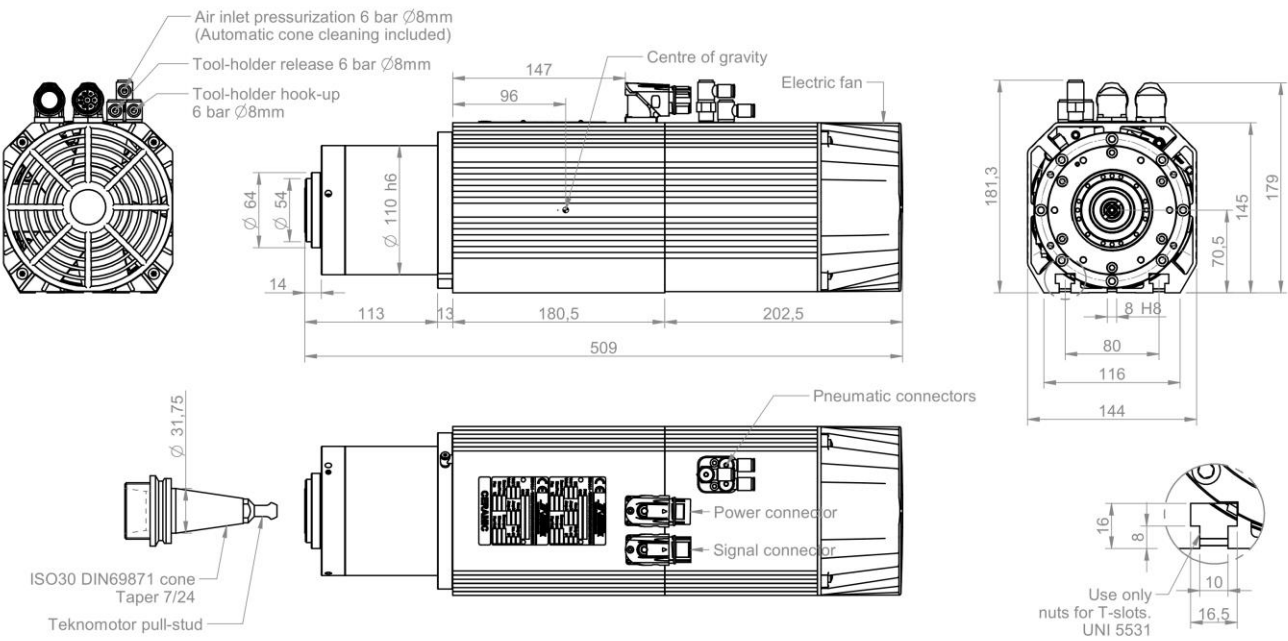
ATC71-A-ISO30-LN

ATC71-A TORQUE AND POWER CURVES



Motor code: **COMTC710021**

Power S1: 5.0 Kw (S1) @12000 rpm  
Power S6: 6.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 4  
Max speed: 24000 rpm @ 800 Hz  
Bearings: Ceramic, front and rear



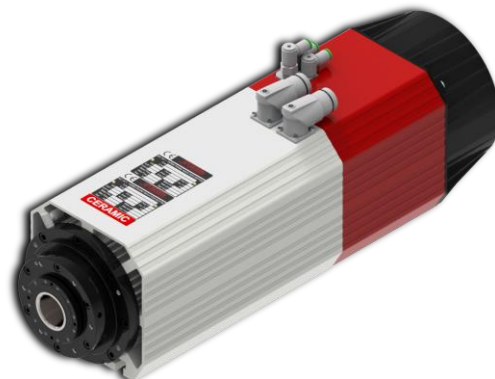
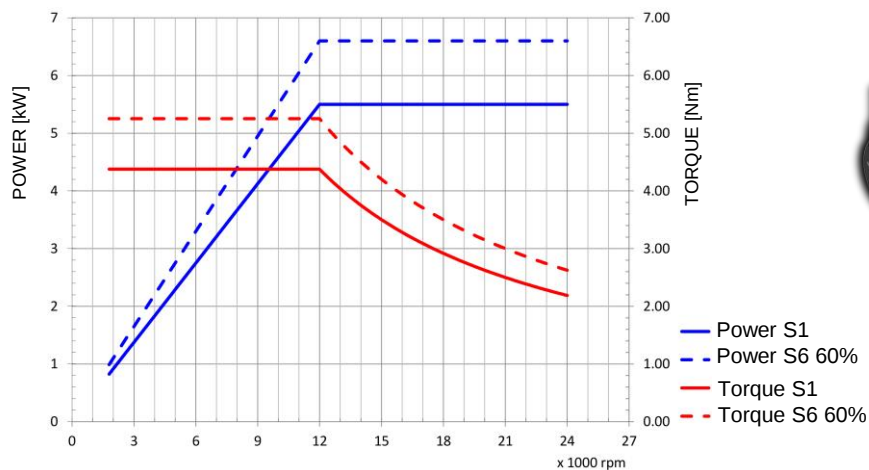
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 Iacho |
| 4                | not used |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                                          |                                         |                                  |                            |                                         |                    |
|-------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------|----------------------------|-----------------------------------------|--------------------|
| Power [kW]<br>5.0/6.0                                                                                 | Duty Cycle<br>S1/S6-60 %                 | Base speed [rpm]<br>12000               | Base freq. [Hz]<br>400           | Base voltage Δ [V]<br>380  | Protection<br>IP54                      | Ins. Cl.<br>F      |
| Min speed [rpm]<br>3000                                                                               | Max speed [rpm]<br>24000                 | Max freq. [Hz]<br>800                   | Absorb. Δ [A]<br>12.0/14.0       | Absorb. Y [A]<br>12.0/14.0 | Part number on nameplate<br>COMTC710021 |                    |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   |                                          | Balancing type                          | Food type<br>Food type           | Peso / weight<br>25.84 kg  | Title<br>ATC71-A-ISO30-LN-4P            |                    |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                                          | Food type                               | Food type                        | Food type                  | Customer<br>Catalogo                    |                    |
| rev. n°<br>00                                                                                         | description<br>Emissione                 |                                         | date<br>26/01/2017               | signature<br>D. Bottarel   | Drawing code<br>COMTC710021             |                    |
| drawn - date<br>D. Bottarel - 26/01/2017                                                              | approved - date<br>S. Perli - 26/01/2017 | checked - date<br>S. Perli - 26/01/2017 | sostituisce il<br>sostituito dal | foglio / sheet<br>1 / 1    | scala<br>1:4                            | Drawing n°<br>5034 |

**ATC71-B-IS030-SN**

### ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710004**

Power S1: 5.5 Kw (S1) @12000 rpm

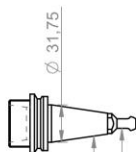
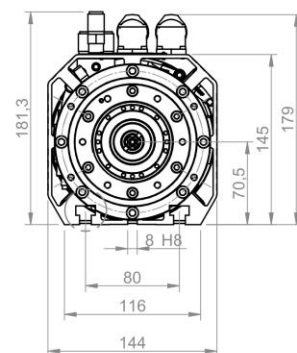
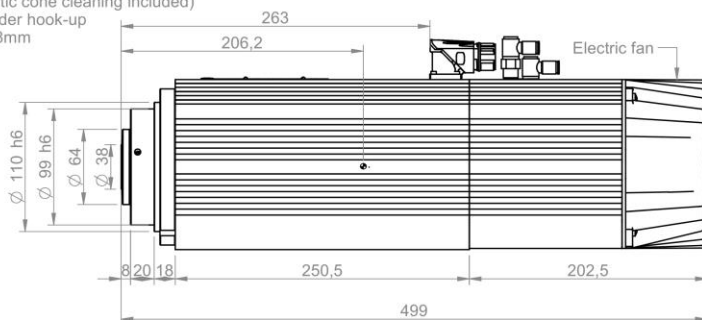
Power S6: 6.6 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 2

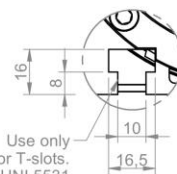
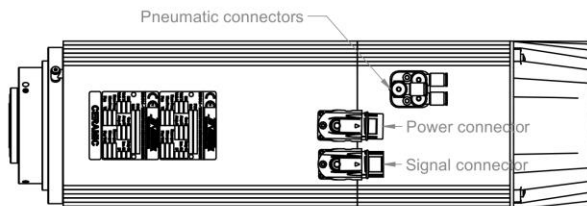
Max speed: 24000 rpm @ 400 Hz

Bearings: Ceramic, front and rear



ISO30 DIN69871 cone  
Taper 7/24

Teknomotor pull-stud



Use only  
nuts for T-slots.  
UNI 5531

| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |               |
|------------------|---------------|
| 1                | S1            |
| 2                | S2            |
| 3                | S3 tachometer |
| 4                | not used      |
| 5                | S5            |
| 6                | 0 V           |
| 7                | +24V DC       |

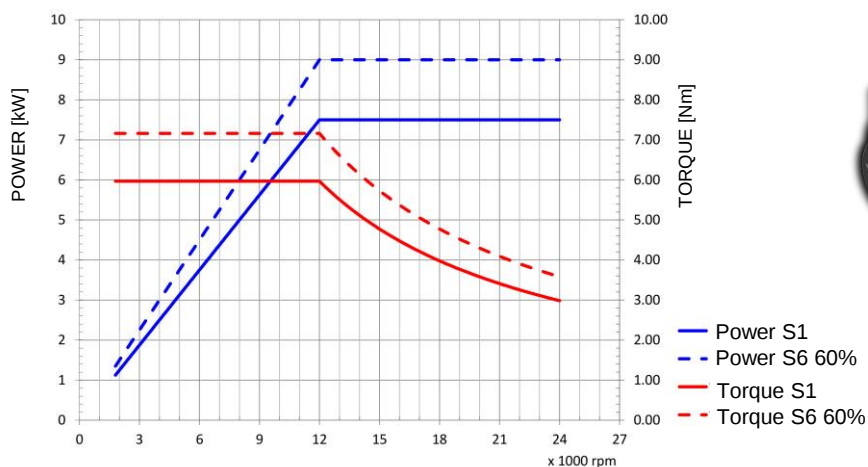
|                                                                                                              |             |                       |                       |                                                                                               |                                                                                               |                              |               |
|--------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|---------------|
| Power [kW]                                                                                                   | Duty Cycle  | Base speed [rpm]      | Base freq. [Hz]       | Base voltage Δ [V]                                                                            | Base voltage Y [V]                                                                            | Protection                   | Ins. Cl.      |
| 5.5/6.6                                                                                                      | S1/S6-60 %  | 12000                 | 200                   |                                                                                               | 380                                                                                           | IP54                         | F             |
| Min speed [rpm]                                                                                              |             | Max speed [rpm]       | Max freq. [Hz]        | Absorb. Δ [A]                                                                                 | Absorb. Y [A]                                                                                 | Part number on nameplate     |               |
| 3000                                                                                                         |             | 24000                 | 400                   |                                                                                               | 11.4/13.4                                                                                     | COMTC710004                  |               |
| Balancing: G2.5 - ISO 1940                                                                                   |             | Balancing type        |                       | Lead type  | Lead type  | Peso / weight                |               |
| Δ maximum motor speed                                                                                        |             |                       |                       |                                                                                               |                                                                                               | 24.83 kg                     |               |
| Tolerance: non qualified / unlisted tolerances: ±0.5mm<br>Smussi non qualificati / unlisted chamfers: ±0.5mm |             |                       |                       |                                                                                               |                                                                                               |                              |               |
|                                                                                                              |             |                       |                       | $\nabla = 6.8 \sqrt{\quad}$                                                                   | $\nabla = 3.2 \sqrt{\quad}$                                                                   | $\nabla = 12.5 \sqrt{\quad}$ | $\sim = \sim$ |
| rev. n°                                                                                                      | description |                       |                       |                                                                                               |                                                                                               | date                         | signature     |
| 00                                                                                                           | Emissione   |                       |                       |                                                                                               |                                                                                               | 05/09/2014                   | D. Bottarelli |
| drawn - data                                                                                                 |             | approved - date       | checked - date        | sostituiscite il                                                                              |                                                                                               |                              |               |
| D. Bottarelli - 05/09/2014                                                                                   |             | S. Perli - 05/09/2014 | S. Perli - 05/09/2014 | sostituiscite dal                                                                             |                                                                                               |                              |               |

|                                                                                                                                                                                                                            |                             |                                                                                       |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|------------------|
|  <p>Teknomotor S.r.l.<br/>Via Argengia 31, I-52038 Quero Vias (BL)<br/><a href="http://www.teknomotor.com">www.teknomotor.com</a></p> |                             |                                                                                       |                  |
| <p>Title<br/><b>ATC71-B-ISO30-SN</b></p>                                                                                                                                                                                   |                             |                                                                                       |                  |
| <p>Customer<br/><b>Catalogo</b></p>                                                                                                                                                                                        |                             |                                                                                       |                  |
| <p>Drawing code<br/><b>COMTC710004</b></p>                                                                                                                                                                                 |                             | <p>Drawing n°<br/><b>1674</b></p>                                                     |                  |
| <p>figlio / sheet<br/><b>1 / 1</b></p>                                                                                                                                                                                     | <p>scale<br/><b>1:4</b></p> |  | <p><b>A4</b></p> |

Il presente disegno è di proprietà esclusiva di Teknomet S.r.l. La riproduzione totale o parziale e la divulgazione a terzi, senza nostro esplicito consenso scritto, verrà perseguita secondo i termini di legge in vigore.

**ATC71-B-ISO30-SN**

## ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710022**

Power S1: 7.5 Kw (S1) @12000 rpm

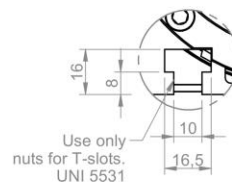
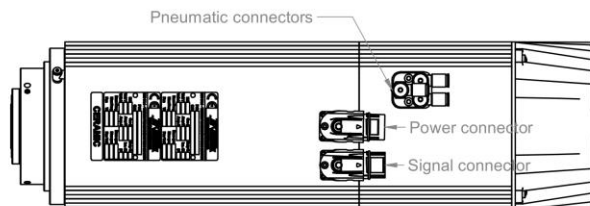
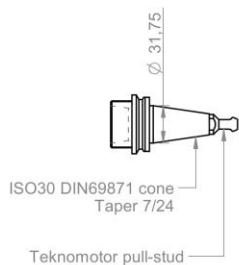
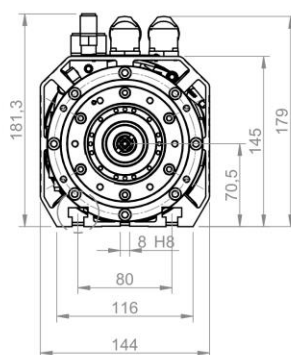
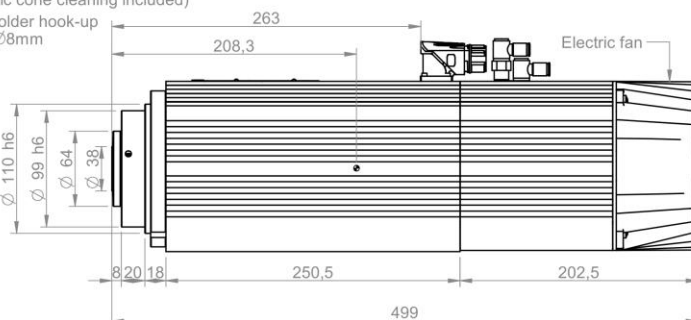
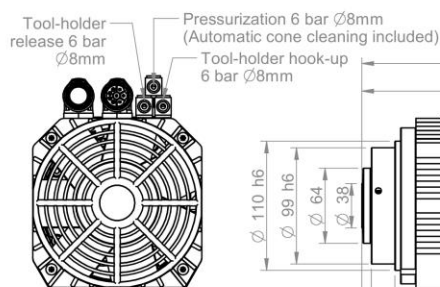
Power S6: 9.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear



| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

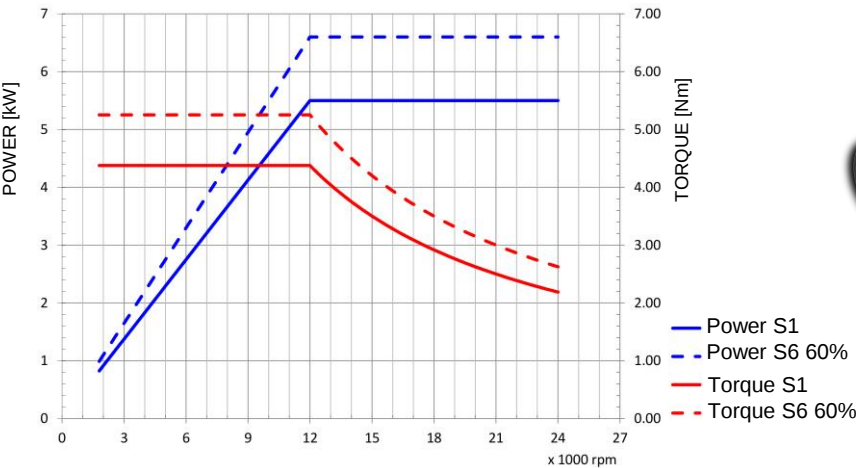
| Signal connector |               |
|------------------|---------------|
| 1                | S1            |
| 2                | S2            |
| 3                | S3 tachometer |
| 4                | not used      |
| 5                | S5            |
| 6                | 0 V           |
| 7                | +24V DC       |

|                                                                                                          |                  |                              |                                                                                     |                                    |                                       |                              |                         |
|----------------------------------------------------------------------------------------------------------|------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------|------------------------------|-------------------------|
| Power [kW]                                                                                               | Duty Cycle       | Base speed [rpm]             | Base freq. [Hz]                                                                     | Base voltage Δ [V]                 | Base voltage Y [V]                    | Protection                   | Ins. Cl.                |
| <b>7.5/9.0</b>                                                                                           | <b>S1/S6-60%</b> | <b>12000</b>                 | <b>400</b>                                                                          |                                    | <b>380</b>                            | <b>IP54</b>                  | <b>F</b>                |
| Min speed [rpm]                                                                                          |                  | Max speed [rpm]              | Max freq. [Hz]                                                                      | Absorb. Δ [A]                      | Absorb. Y [A]                         | Part number on nameplate     |                         |
| <b>3000</b>                                                                                              |                  | <b>24000</b>                 | <b>800</b>                                                                          |                                    | <b>15.7/19.0</b>                      | <b>COMTC710022</b>           |                         |
| Balancing: G2.5 - ISO 1940                                                                               |                  |                              | Balancing type                                                                      |                                    | Preset / weight                       |                              |                         |
| Δ maximum motor speed                                                                                    |                  |                              |  |                                    | <b>25.13 kg</b>                       |                              |                         |
| Tolerance: none quoted / T unlisted tolerances: ±0.5mm<br>Smussi non quotati / Unlisted chamfers: ±0.5mm |                  |                              |                                                                                     |                                    |                                       |                              |                         |
|                                                                                                          |                  |                              |                                                                                     | $\nabla \nabla = 0.8 \sqrt{\quad}$ | $\nabla \nabla = 3.2 \sqrt{\quad}$    | $\nabla = 12.5 \sqrt{\quad}$ | $\nabla = \sqrt{\quad}$ |
| rev. n°                                                                                                  | description      |                              |                                                                                     |                                    |                                       | date                         | signature               |
| <b>00</b>                                                                                                | <b>Emissione</b> |                              |                                                                                     |                                    |                                       | <b>26/01/2017</b>            | <b>D. Bottarelli</b>    |
| drawn - date                                                                                             |                  | approved - date              |                                                                                     | checked - date                     | sostituiscila se<br>sostituiscilo dal |                              |                         |
| <b>D. Bottarelli - 26/01/2017</b>                                                                        |                  | <b>S. Perli - 26/01/2017</b> |                                                                                     | <b>S. Perli - 26/01/2017</b>       |                                       |                              |                         |

|                                                                                                                             |                     |                                                                                       |           |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|-----------|
|                                        |                     |                                                                                       |           |
| Teknomotor S.r.l.<br>Via Argengia 31, I-32038 Quero Vias (BL)<br><a href="http://www.teknomotor.com">www.teknomotor.com</a> |                     |                                                                                       |           |
| Title<br><b>ATC71-B-IS030-SN-4P</b>                                                                                         |                     |                                                                                       |           |
| Customer<br><b>Catalogo</b>                                                                                                 |                     |                                                                                       |           |
| Drawing code<br><b>COMTC710022</b>                                                                                          |                     | Drawing n°<br><b>5055</b>                                                             |           |
| foglio / sheet<br>1 / 1                                                                                                     | scala<br><b>1:4</b> |  | <b>A4</b> |

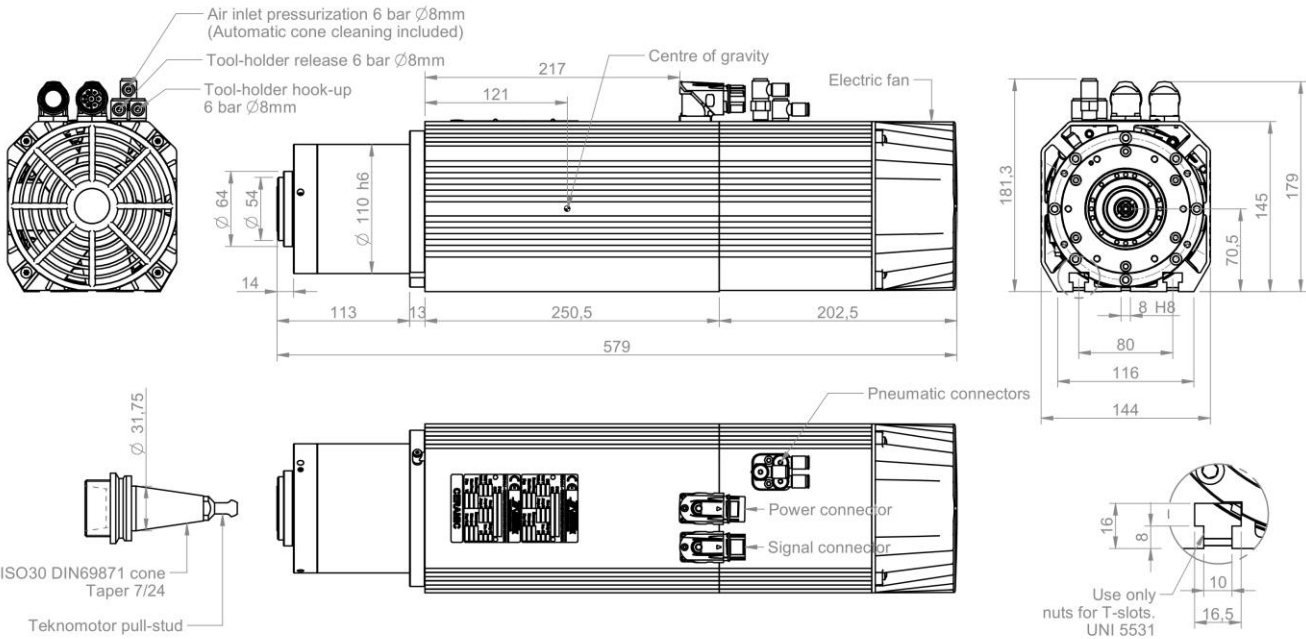
ATC71-B-ISO30-LN

ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710008**

Power S1: 5.5 Kw (S1) @12000 rpm  
Power S6: 6.6 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



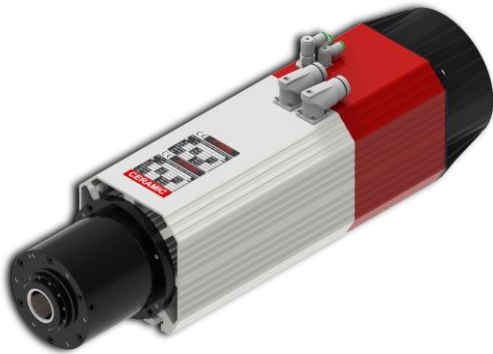
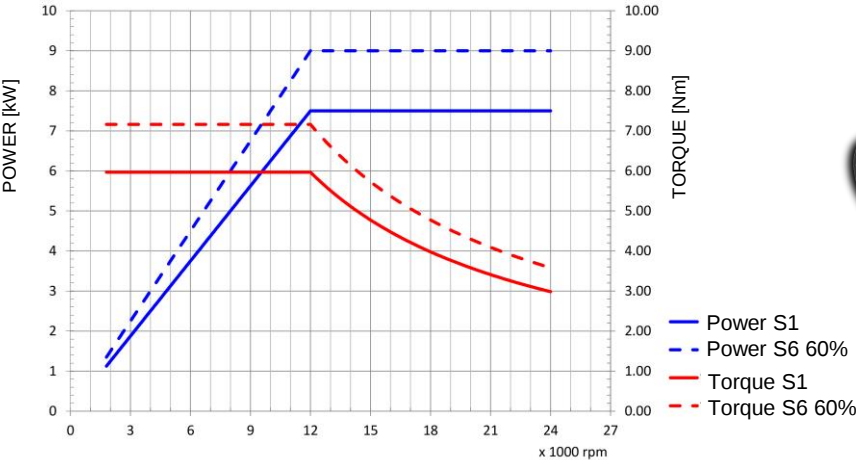
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | not used |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                          |                                                                                                  |                                                                                                  |                                                                                                  |                                         |                                                                                          |
|-------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|
| Power [kW]<br>5.5/6.6                                                                                 | Duty Cycle<br>S1/S6-60 % | Base speed [rpm]<br>12000                                                                        | Base freq. [Hz]<br>200                                                                           | Base voltage [V]<br>380                                                                          | Protection<br>IP54                      | Ins. Cl.<br>F                                                                            |
| Min speed [rpm]<br>3000                                                                               | Max speed [rpm]<br>24000 | Max freq. [Hz]<br>400                                                                            | Absorb. Δ [A]<br>11.4/13.4                                                                       | Absorb. Y [A]<br>11.4/13.4                                                                       | Part number on nameplate<br>COMTC710008 |                                                                                          |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   | Balancing type           | Food type<br> | Food type<br> | Food type<br> | Peso / weight<br>30.36 kg               |                                                                                          |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                          |                                                                                                  |                                                                                                  |                                                                                                  |                                         |                                                                                          |
| rev. n°<br>00                                                                                         |                          | description<br>Emissione                                                                         |                                                                                                  | date<br>05/09/2014                                                                               | signature<br>D. Bottarel                | Customer<br>Catalogo                                                                     |
| drawn - date<br>D. Bottarel - 05/09/2014                                                              |                          | approved - date<br>S. Peri - 05/09/2014                                                          |                                                                                                  | checked - date<br>S. Peri - 05/09/2014                                                           |                                         | sostituisce il<br>sostituito dal                                                         |
| foglio / sheet<br>1 / 1                                                                               |                          |                                                                                                  |                                                                                                  | scala<br>1:4                                                                                     |                                         |  A4 |
| Drawing code<br>COMTC710008                                                                           |                          |                                                                                                  |                                                                                                  |                                                                                                  |                                         |                                                                                          |

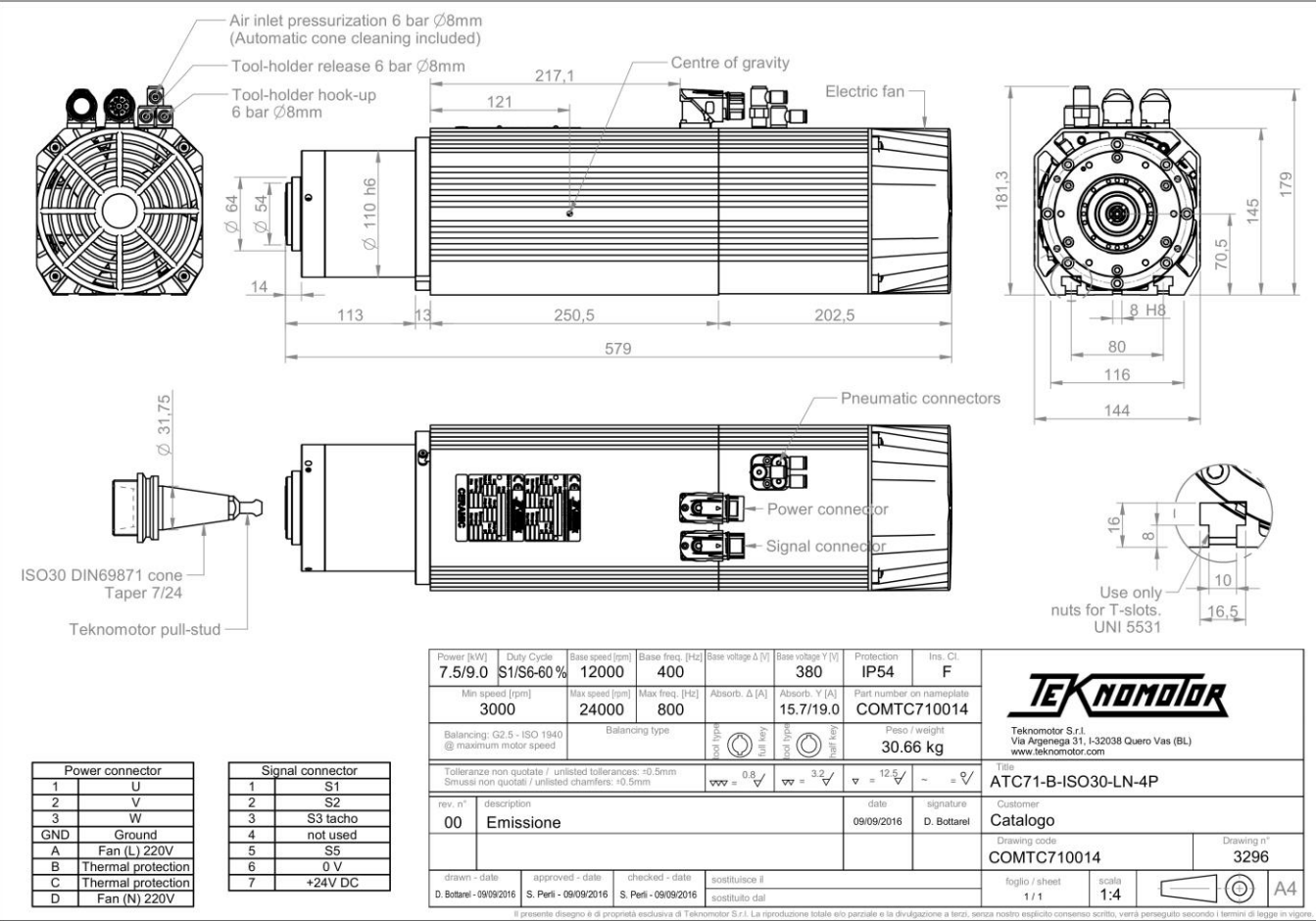
ATC71-B-ISO30-LN

ATC71-B TORQUE AND POWER CURVES



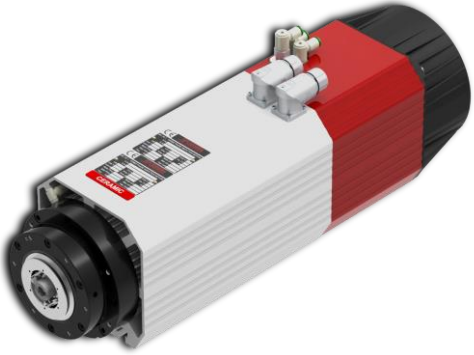
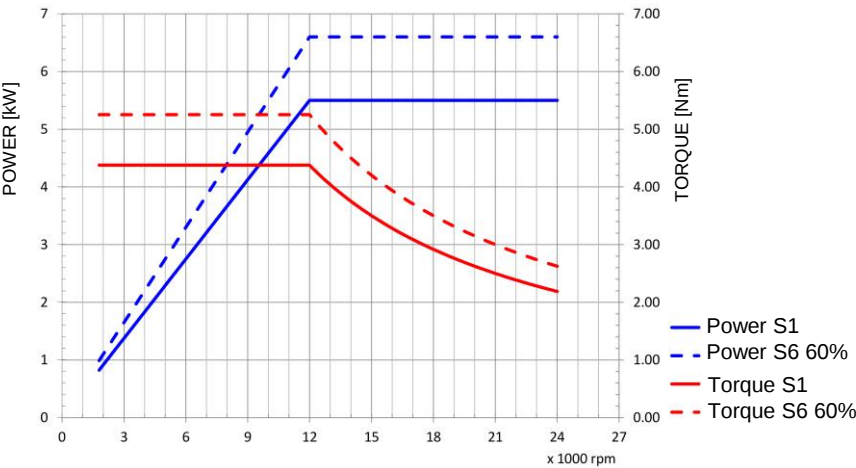
Motor code: **COMTC710014**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 4  
Max speed: 24000 rpm @ 800 Hz  
Bearings: Ceramic, front and rear



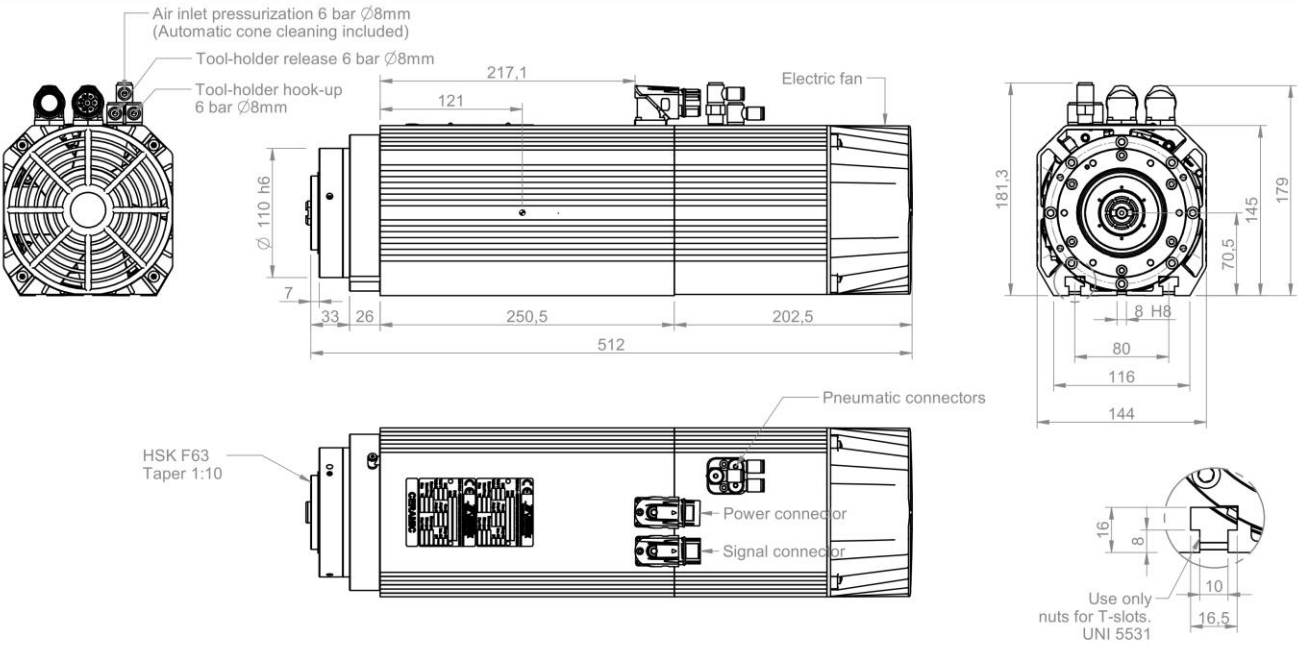
ATC71-B-HSK63F-SN

ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710023**

Power S1: 5.5 Kw (S1) @12000 rpm  
Power S6: 6.6 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



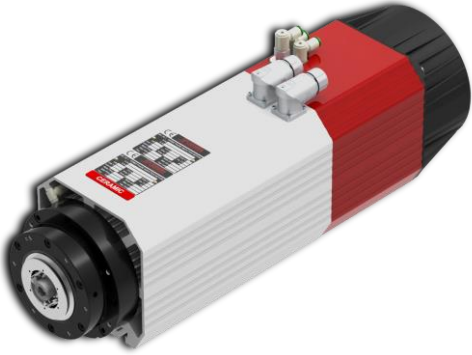
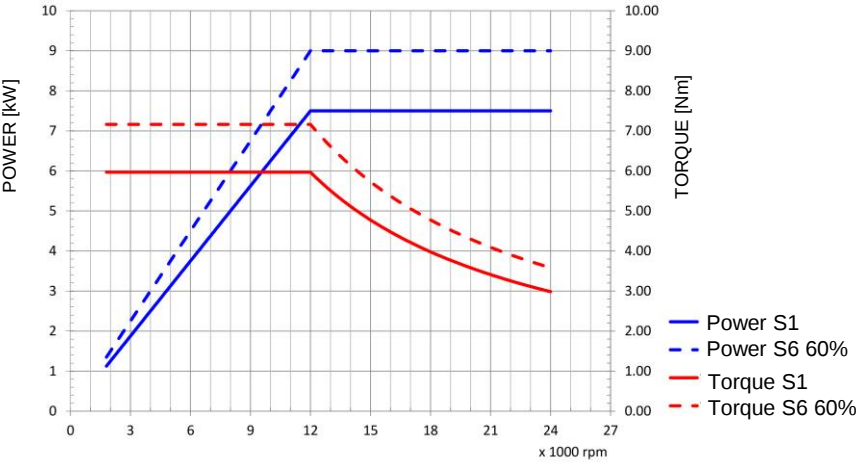
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                |                      |            |                      |       |                |           |                           |           |                             |             |            |                    |          |   |    |
|-------------------------------------------------------------------------------------------------------|----------------|----------------------|------------|----------------------|-------|----------------|-----------|---------------------------|-----------|-----------------------------|-------------|------------|--------------------|----------|---|----|
| Power [kW]                                                                                            | 5.5/6.6        | Duty Cycle           | S1/S6-60 % | Base speed [rpm]     | 12000 | Buf.freq. [Hz] | 200       | Base voltage Δ [V]        | 380       | Base voltage Y [V]          | 380         | Protection | IP54               | Ins. Cl. | F |    |
| Min speed [rpm]                                                                                       | 3000           | Max speed [rpm]      | 24000      | Max.freq. [Hz]       | 400   | Absorb. Δ [A]  | 11.4/13.4 | Absorb. Y [A]             | 11.4/13.4 | Part number on nameplate    | COMTC710023 |            |                    |          |   |    |
| Balancing: G2.5 - ISO 1940 @ maximum motor speed                                                      | Balancing type |                      |            |                      |       |                |           | Peso / weight<br>26.50 kg |           |                             |             |            |                    |          |   |    |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                |                      |            |                      |       |                |           |                           |           |                             |             |            |                    |          |   |    |
| rev. n°                                                                                               | 00             | description          |            |                      |       | date           |           | signature                 |           | Title                       |             |            |                    |          |   |    |
|                                                                                                       |                | Emissione            |            |                      |       | 01/02/2017     |           | D. Bottarel               |           | ATC71-B-HSK63F-SN           |             |            |                    |          |   |    |
|                                                                                                       |                |                      |            |                      |       |                |           |                           |           | Customer<br>Catalogo        |             |            |                    |          |   |    |
|                                                                                                       |                |                      |            |                      |       |                |           |                           |           | Drawing code<br>COMTC710023 |             |            | Drawing n°<br>5063 |          |   |    |
| drawn - date                                                                                          |                | approved - date      |            | checked - date       |       | sostituisce il |           | sostituito dal            |           | foglio / sheet              |             | scala      |                    |          |   | A4 |
| D. Bottarel - 01/02/2017                                                                              |                | S. Peri - 01/02/2017 |            | S. Peri - 01/02/2017 |       |                |           |                           |           | 1 / 1                       |             | 1:4        |                    |          |   |    |

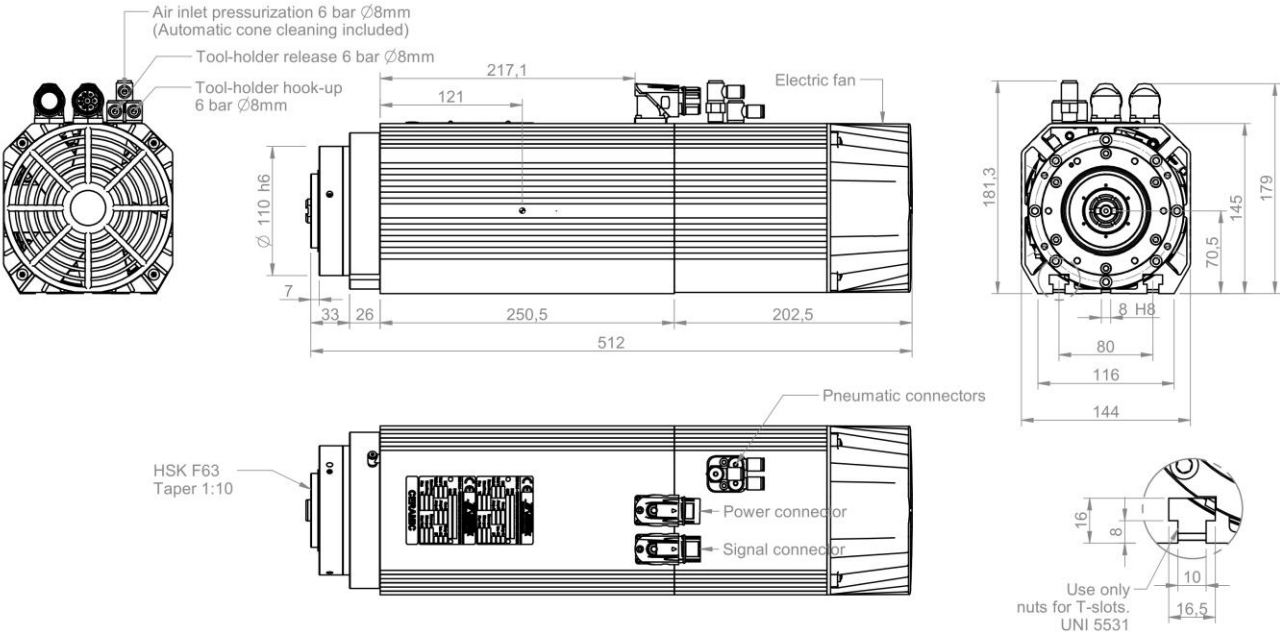
ATC71-B-HSK63F-SN

ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710018**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 4  
Max speed: 24000 rpm @ 800 Hz  
Bearings: Ceramic, front and rear



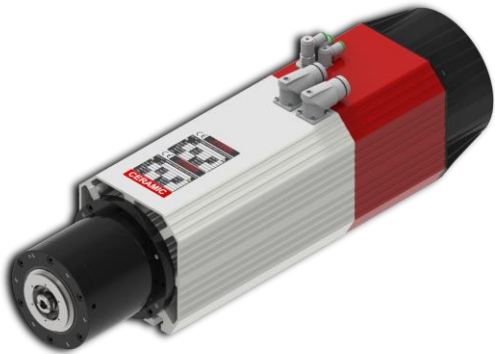
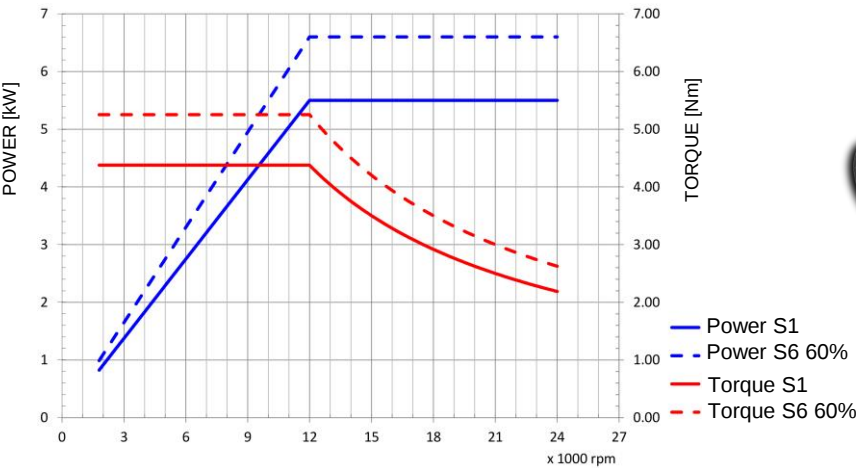
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                      |          |                                                                                                                                                                           |    |
|-------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Power [kW]                                                                                            | Duty Cycle           | Base speed [rpm]                                                                    | Base freq. [Hz]                                                                     | Base voltage Δ [V]                                                                  | Base voltage Y [V]                                                                  | Protection           | Ins. Cl. | <br>Teknomotor S.r.l.<br>Via Agenzia 31 I-32038 Quero Vas (BL)<br>www.teknomotor.com |    |
| 7.5/9.0                                                                                               | S1/S6-60 %           | 12000                                                                               | 400                                                                                 | 380                                                                                 | 380                                                                                 | IP54                 | F        |                                                                                                                                                                           |    |
| Min speed [rpm]                                                                                       | Max speed [rpm]      | Max freq. [Hz]                                                                      | Absorb. Δ [A]                                                                       | Absorb. Y [A]                                                                       | Part number on nameplate                                                            |                      |          |                                                                                                                                                                           |    |
| 3000                                                                                                  | 24000                | 800                                                                                 | 15.7/19.0                                                                           | 15.7/19.0                                                                           | COMTC710018                                                                         |                      |          |                                                                                                                                                                           |    |
| Balancing: G2.5 - ISO 1940 @ maximum motor speed                                                      | Balancing type       |  |  |  |  | Peso / weight        |          |                                                                                                                                                                           |    |
|                                                                                                       |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 26.80 kg             |          |                                                                                                                                                                           |    |
| Tolerance non quotata / unlisted tolerances: ±0.5mm<br>Smussi non quotati / unlisted chamfers: ±0.5mm |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                      |          |                                                                                                                                                                           |    |
| rev. n° / description                                                                                 |                      | date                                                                                |                                                                                     | signature                                                                           |                                                                                     | Title                |          |                                                                                                                                                                           |    |
| 00 / Emissione                                                                                        |                      | 12/10/2016                                                                          |                                                                                     | D. Bottarel                                                                         |                                                                                     | ATC71-B-HSK63F-SN-4P |          |                                                                                                                                                                           |    |
|                                                                                                       |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Customer             |          |                                                                                                                                                                           |    |
|                                                                                                       |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Catalogo             |          |                                                                                                                                                                           |    |
| Drawing code                                                                                          |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Drawing n°           |          |                                                                                                                                                                           |    |
| COMTC710018                                                                                           |                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 5059                 |          |                                                                                                                                                                           |    |
| drawn - date                                                                                          | approved - date      | checked - date                                                                      | sostituisce il                                                                      |                                                                                     | foglio / sheet                                                                      |                      | scala    |                                                                                      | A4 |
| D. Bottarel - 12/10/2016                                                                              | S. Peri - 12/10/2016 | S. Peri - 12/10/2016                                                                | sostituito dal                                                                      |                                                                                     | 1 / 1                                                                               |                      | 1:4      |                                                                                                                                                                           |    |

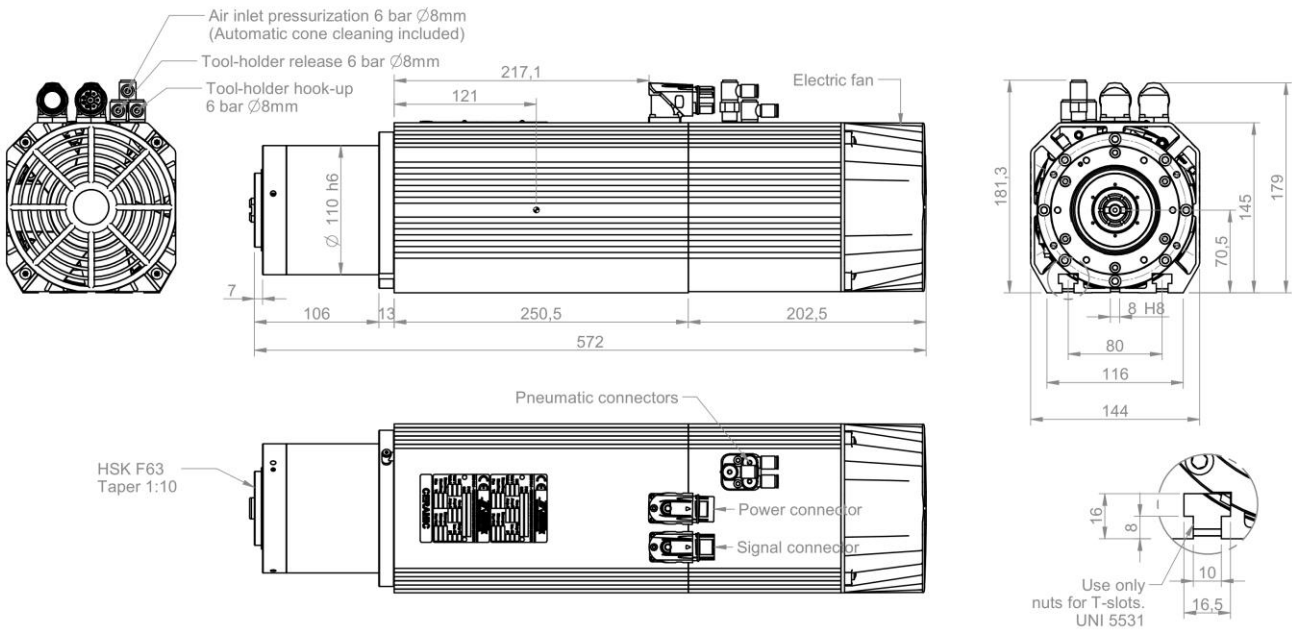
ATC71-B-HSK63F-LN

ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710006**

Power S1: 5.5 Kw (S1) @12000 rpm  
Power S6: 6.6 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



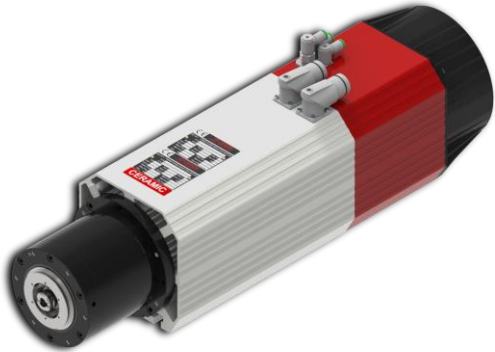
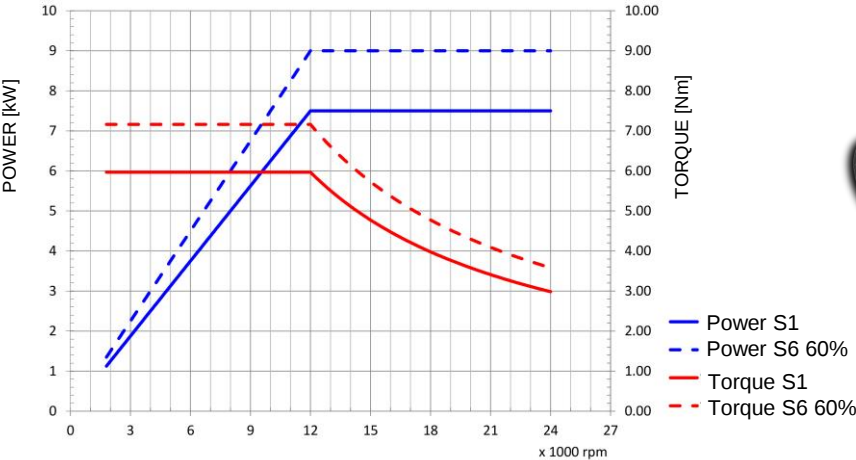
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 lacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 |                             |                                                                                                                                                                                    |                    |
|-------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Power [kW]<br>5.5/6.6                                                                                 | Duty Cycle<br>S1/S6-60 % | Base speed [rpm]<br>12000               | Base freq. [Hz]<br>200                                                                                     | Base voltage Δ [V]<br>380                                                                                 | Base voltage Y [V]<br>380                                                                                | Protection<br>IP54              | Ins. Cl.<br>F               | <br><b>Teknomotor S.r.l.</b><br>Via Argentea 31 I-32038 Quero Vias (BL)<br>www.teknomotor.com |                    |
| Min speed [rpm]<br>3000                                                                               | Max speed [rpm]<br>24000 | Max freq. [Hz]<br>400                   | Absorb. Δ [A]<br>11.4/13.4                                                                                 | Absorb. Y [A]<br>11.4/13.4                                                                                | Part number on nameplate<br>COMTC710006                                                                  |                                 |                             |                                                                                                                                                                                    |                    |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   |                          | Balancing type                          | Food type<br>           | Peso / weight<br>30.45 kg                                                                                 |                                                                                                          |                                 |                             |                                                                                                                                                                                    |                    |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                          |                                         | $\frac{0.8}{\sqrt{f}}$  | $\frac{12}{\sqrt{f}}$  | $\frac{1}{\sqrt{f}}$  |                                 |                             |                                                                                                                                                                                    |                    |
| rev. n°<br>00                                                                                         |                          | description<br>Emissione                |                                                                                                            | date<br>05/09/2014                                                                                        | signature<br>D. Bottarel                                                                                 |                                 |                             | Title<br>ATC71-B-HSK63F-LN                                                                                                                                                         |                    |
|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 | Customer<br>Catalogo        |                                                                                                                                                                                    |                    |
|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 | Drawing code<br>COMTC710006 |                                                                                                                                                                                    | Drawing n°<br>3292 |
| drawn - date<br>D. Bottarel - 05/09/2014                                                              |                          | approved - date<br>S. Peri - 05/09/2014 |                                                                                                            | checked - date<br>S. Peri - 05/09/2014                                                                    |                                                                                                          | sostituire il<br>sostituire dal |                             | foglio / sheet<br>1 / 1                                                                                                                                                            |                    |
|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 |                             | scala<br>1:4                                                                                                                                                                       |                    |
|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 |                             |                                                                                               |                    |
|                                                                                                       |                          |                                         |                                                                                                            |                                                                                                           |                                                                                                          |                                 |                             | A4                                                                                                                                                                                 |                    |

ATC71-B-HSK63F-LN

ATC71-B TORQUE AND POWER CURVES



Motor code: **COMTC710015**

Power S1: 7.5 Kw (S1) @12000 rpm

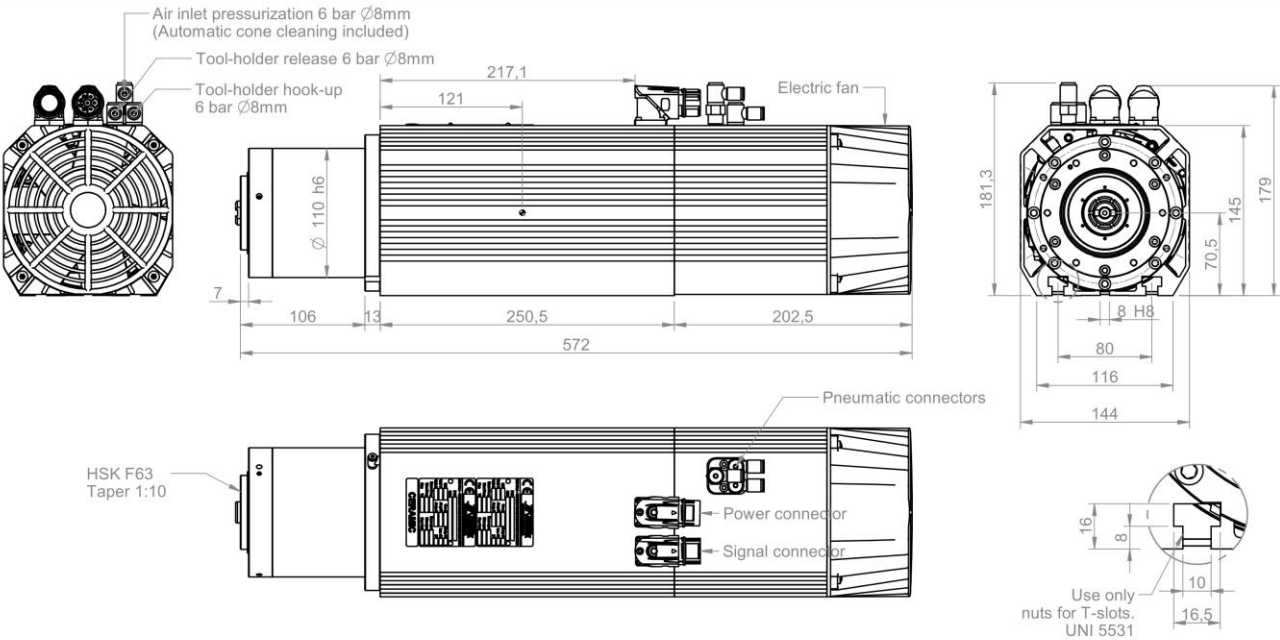
Power S6: 9.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear



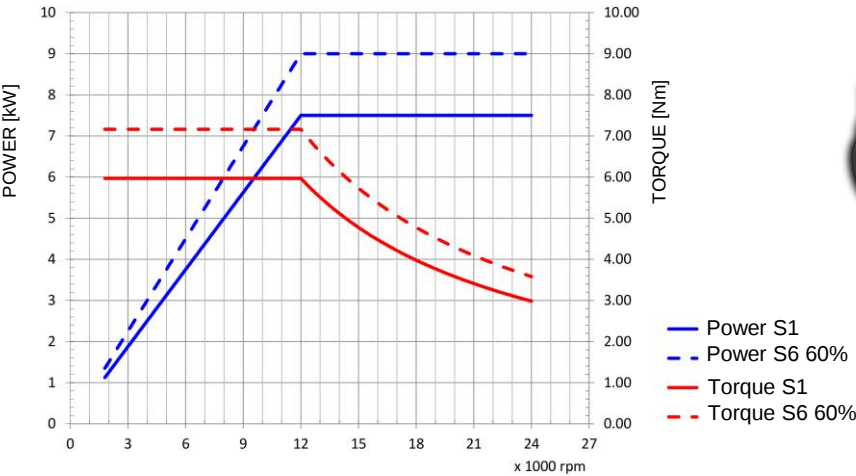
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                 |                       |                       |                                    |                          |                                                                                       |                      |                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------------|------------------------------------|--------------------------|---------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power [kW]                                                                                            | Duty Cycle      | Base speed [rpm]      | Base freq. [Hz]       | Base voltage Δ [V]                 | Base voltage Y [V]       | Protection                                                                            | Ins. Cl.             | <br>Teknomotor S.r.l.<br>Via Agneggia 31 I-32038 Quero Vas (BL)<br>www.teknomotor.com |
| 7.5/9.0                                                                                               | S1/S6-60 %      | 12000                 | 400                   | 380                                | IP54                     | Ins. Cl. F                                                                            |                      |                                                                                                                                                                            |
| Min speed [rpm]                                                                                       | Max speed [rpm] | Max freq. [Hz]        | Absorb. Δ [A]         | Absorb. Y [A]                      | Part number on nameplate |                                                                                       |                      |                                                                                                                                                                            |
| 3000                                                                                                  | 24000           | 800                   | 15.7/19.0             | 15.7/19.0                          | COMTC710015              |                                                                                       |                      |                                                                                                                                                                            |
| Balancing: G2.5 - ISO 1940 @ maximum motor speed                                                      |                 | Balancing type        | Tool type             | Tool type                          | Tool type                | Tool type                                                                             | Press. / weight      |                                                                                                                                                                            |
|                                                                                                       |                 |                       |                       |                                    |                          |                                                                                       | 30.76 kg             |                                                                                                                                                                            |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                 |                       |                       | $\sqrt{0.8}$                       | $\sqrt{3.2}$             | $\sqrt{12.5}$                                                                         | $\sqrt{\sim}$        | $\sqrt{=}$                                                                                                                                                                 |
| rev. n°                                                                                               | description     |                       |                       | date                               | signature                |                                                                                       | Title                |                                                                                                                                                                            |
| 00                                                                                                    | Emissione       |                       |                       | 15/09/2016                         | D. Bottarel              |                                                                                       | ATC71-B-HSK63F-LN-4P |                                                                                                                                                                            |
|                                                                                                       |                 |                       |                       |                                    |                          | Customer                                                                              |                      |                                                                                                                                                                            |
|                                                                                                       |                 |                       |                       |                                    |                          | Catalogo                                                                              |                      |                                                                                                                                                                            |
|                                                                                                       |                 |                       |                       |                                    |                          | Drawing code                                                                          |                      | Drawing n°                                                                                                                                                                 |
|                                                                                                       |                 |                       |                       |                                    |                          | COMTC710015                                                                           |                      | 3291                                                                                                                                                                       |
| drawn - date                                                                                          |                 | approved - date       | checked - date        | sostituiscilo il<br>sostituito dal |                          | foglio / sheet                                                                        |                      | scala                                                                                                                                                                      |
| D. Bottarel - 15/09/2016                                                                              |                 | S. Perli - 15/09/2016 | S. Perli - 15/09/2016 |                                    |                          | 1 / 1                                                                                 |                      | 1:4                                                                                                                                                                        |
|                                                                                                       |                 |                       |                       |                                    |                          |  |                      | A4                                                                                                                                                                         |

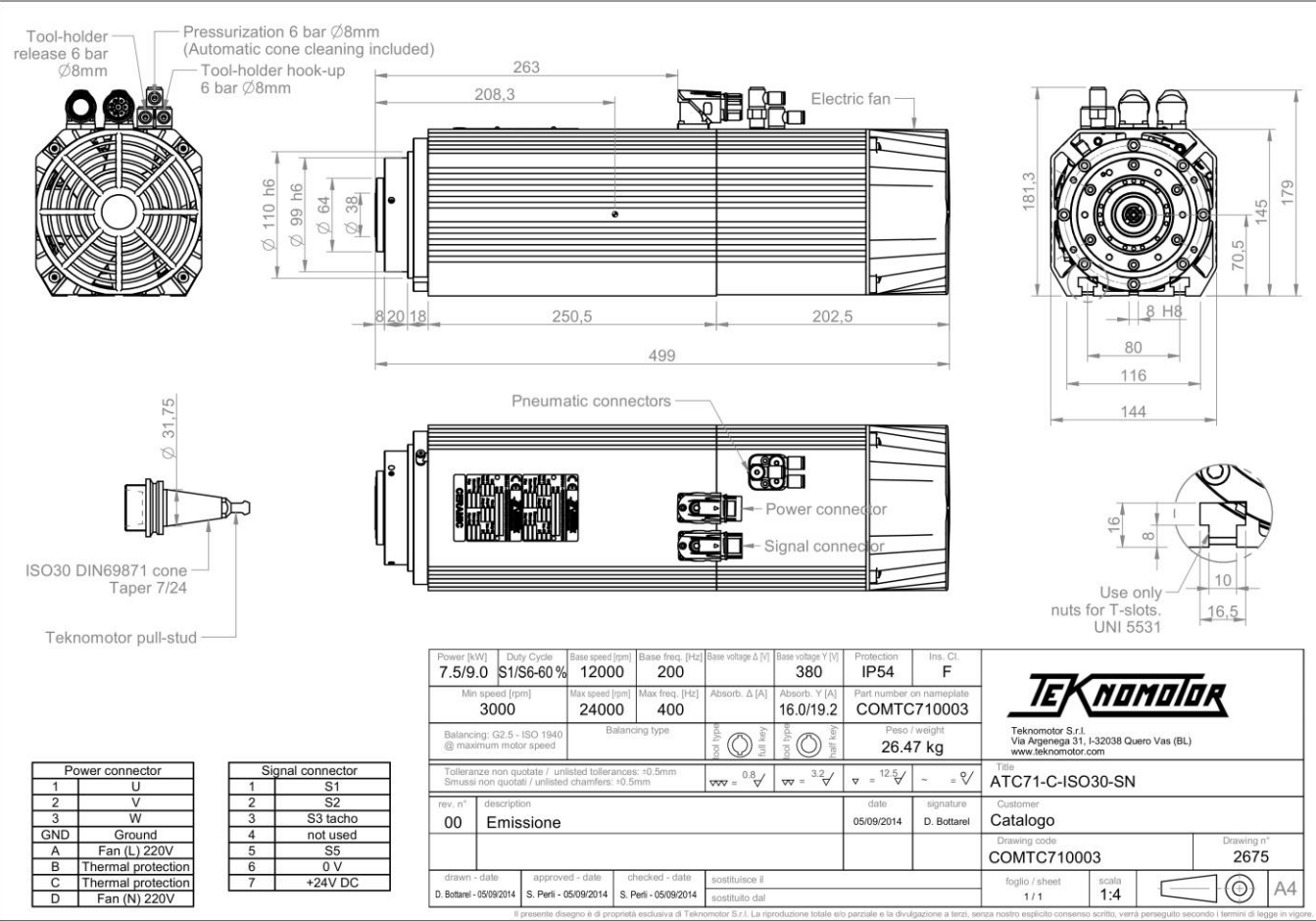
ATC71-C-ISO30-SN

ATC71-C TORQUE AND POWER CURVES



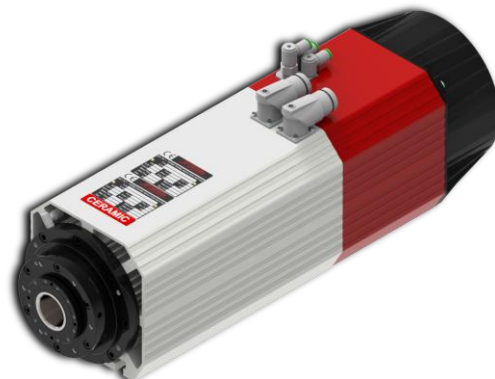
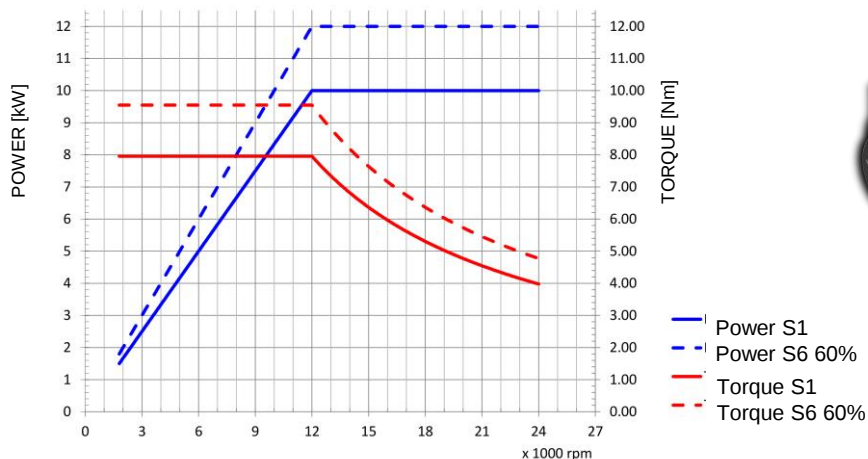
Motor code: **COMTC710003**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



**ATC71-C-IS030-SN**

### ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710024**

Power S1: 10.0 Kw (S1) @12000 rpm

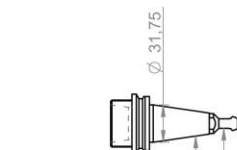
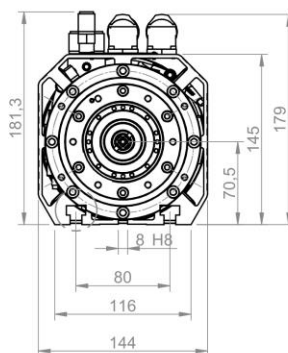
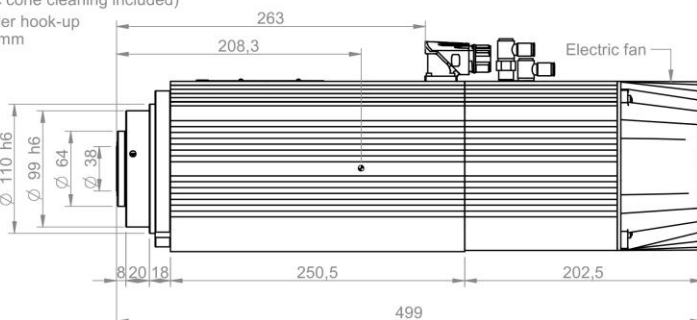
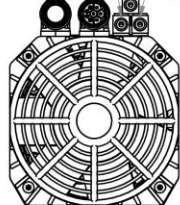
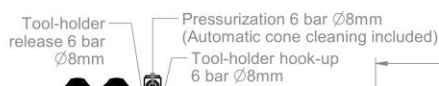
Power S6: 12.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

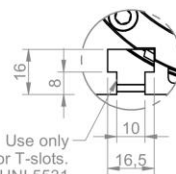
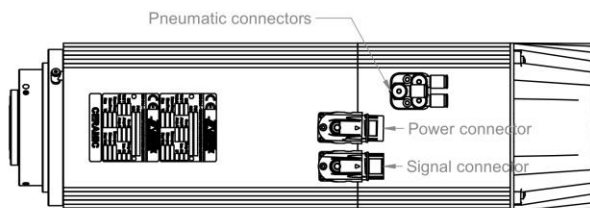
Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear



ISO30 DIN69871 cone  
Taper 7/24

Teknomotor pull-stud —



Use only  
nuts for T-slots.  
UNI 5531

| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

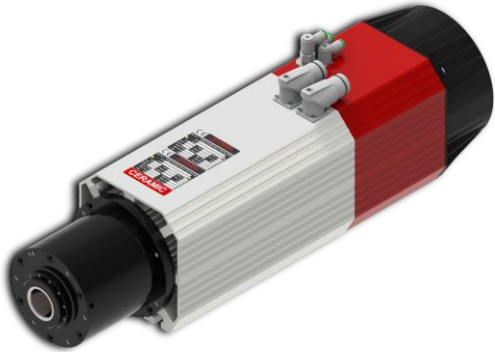
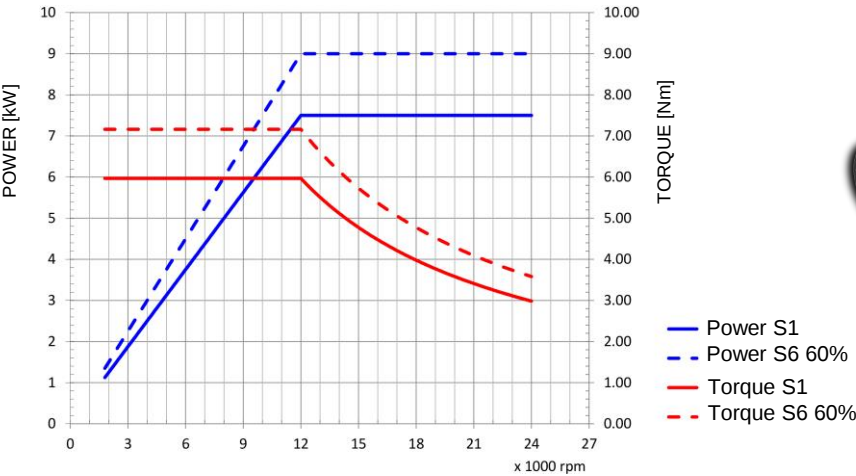
| Signal connector |               |
|------------------|---------------|
| 1                | S1            |
| 2                | S2            |
| 3                | S3 tachometer |
| 4                | not used      |
| 5                | S5            |
| 6                | 0 V           |
| 7                | +24V DC       |

|                                                                                                       |                       |                       |                                                                                               |                                                                                               |                                                                                            |                                                                                         |               |
|-------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|
| Power [kW]                                                                                            | Duty Cycle            | Base speed [rpm]      | Base force [Hz]                                                                               | Base voltage Δ [V]                                                                            | Base voltage Y [V]                                                                         | Protection                                                                              | Ins. Cl.      |
| 10.0/12.0                                                                                             | S1/S6-60 %            | 12000                 | 400                                                                                           |                                                                                               | 380                                                                                        | IP54                                                                                    | F             |
| Min speed [rpm]                                                                                       | Max speed [rpm]       | Max force [Hz]        | Absorb. Δ [A]                                                                                 | Absorb. Y [A]                                                                                 | Part number on nameplate                                                                   |                                                                                         |               |
| 3000                                                                                                  | 24000                 | 800                   |                                                                                               | 20.0/24.0                                                                                     | COMTC710024                                                                                |                                                                                         |               |
| Balancing: G2.5 - ISO 1940<br>Δ maximum motor speed                                                   | Balancing type        |                       | Lead type  | Lead type  | Peso / weight                                                                              |                                                                                         |               |
|                                                                                                       |                       |                       |                                                                                               |                                                                                               | 25.13 kg                                                                                   |                                                                                         |               |
| Tolerance: non quoted / unlisted tolerances: ±0.5mm<br>Smussi non quotati / unlisted chamfers: ±0.5mm |                       |                       |                                                                                               |                                                                                               |                                                                                            |                                                                                         |               |
|                                                                                                       |                       |                       |  = 6.8     |  = 3.2     |  = 12.5 |  = 2 |               |
| rev. n°                                                                                               | description           |                       |                                                                                               |                                                                                               |                                                                                            | date                                                                                    | signature     |
| 00                                                                                                    | Emissione             |                       |                                                                                               |                                                                                               |                                                                                            | 01/02/2017                                                                              | D. Bottarelli |
|                                                                                                       |                       |                       |                                                                                               |                                                                                               |                                                                                            |                                                                                         |               |
| drawn - date                                                                                          | approved - date       | checked - date        | sostituisce il                                                                                |                                                                                               |                                                                                            |                                                                                         |               |
| D. Bottarelli - 01/02/2017                                                                            | S. Perli - 01/02/2017 | S. Perli - 01/02/2017 | sostituito dal                                                                                |                                                                                               |                                                                                            |                                                                                         |               |

|                                                                                                                            |                     |                                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|--|
|                                       |                     |                                                                                       |  |
| Teknomotor S.r.l.<br>Via Argengia 31, I-32038 Quero Vas (BL)<br><a href="http://www.teknomotor.com">www.teknomotor.com</a> |                     |                                                                                       |  |
| Title<br><b>ATC71-C-ISO30-SN-4P</b>                                                                                        |                     |                                                                                       |  |
| Customer<br><b>Catalogo</b>                                                                                                |                     |                                                                                       |  |
| Drawing code<br><b>COMTC710024</b>                                                                                         |                     | Drawing n°<br><b>5064</b>                                                             |  |
| foglio / sheet<br><b>1 / 1</b>                                                                                             | scala<br><b>1:4</b> |  |  |
|                                                                                                                            |                     | <b>A4</b>                                                                             |  |

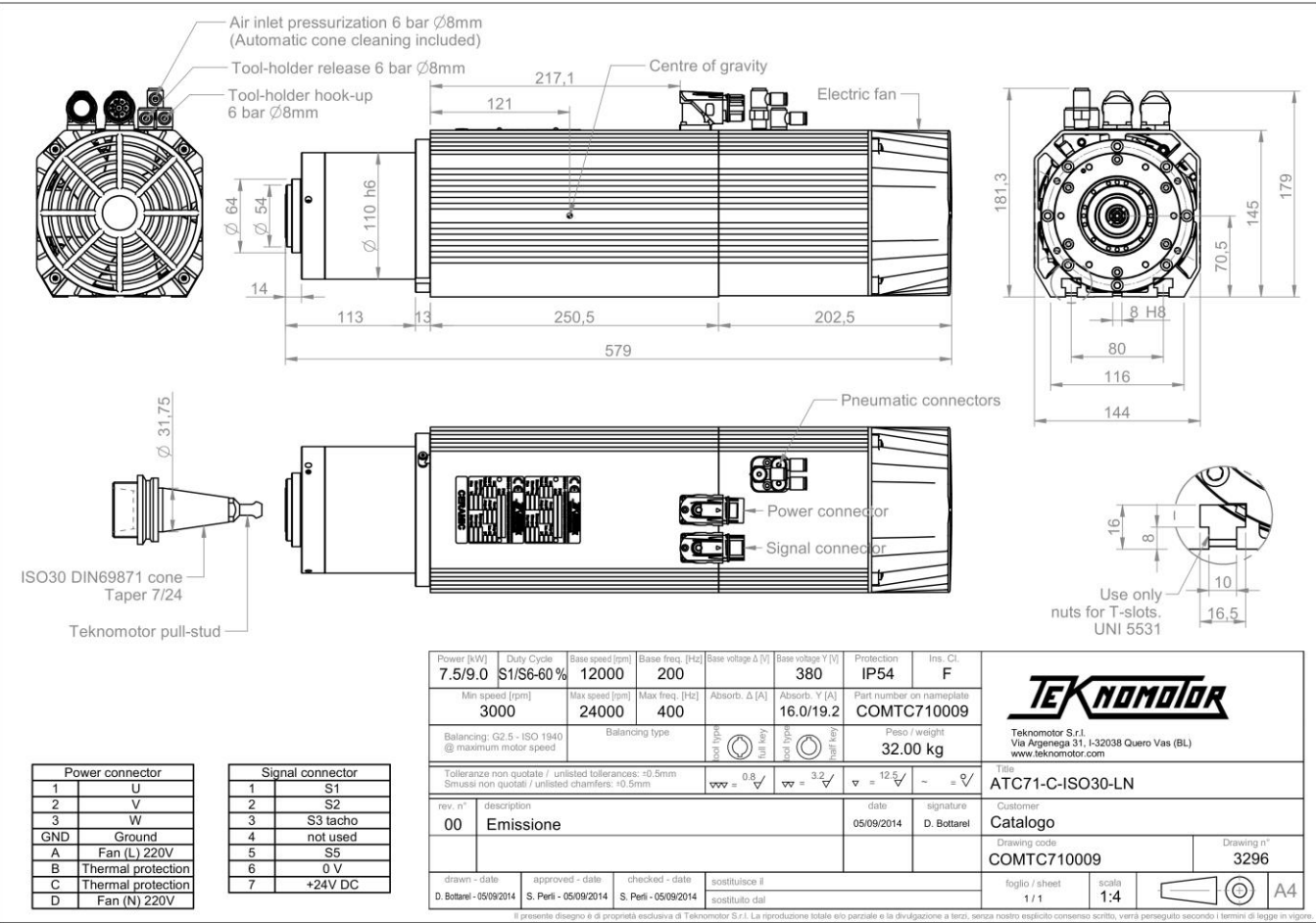
ATC71-C-ISO30-LN

ATC71-C TORQUE AND POWER CURVES



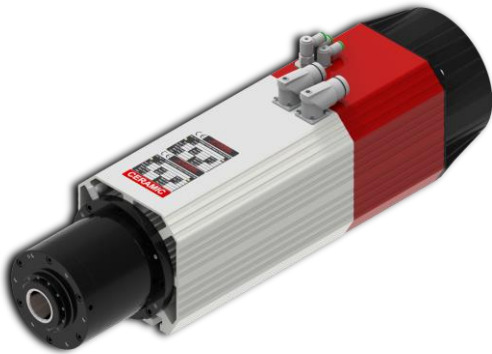
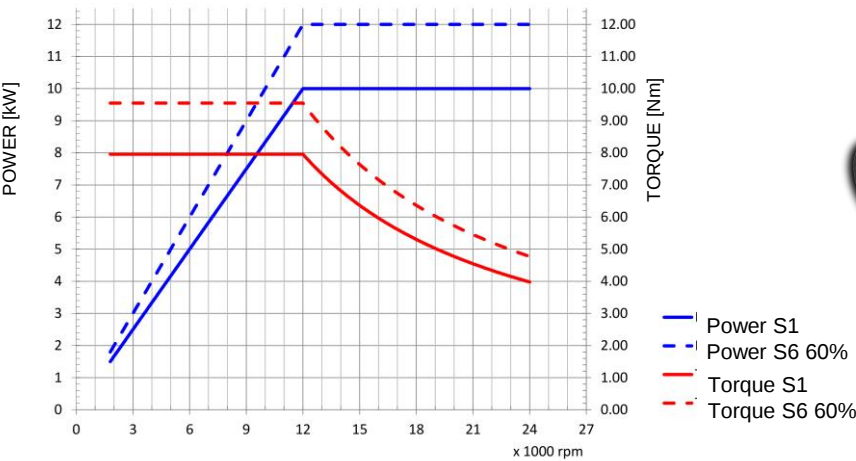
Motor code: **COMTC710009**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



ATC71-C-ISO30-LN

ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710025**

Power S1: 10.0 Kw (S1) @12000 rpm

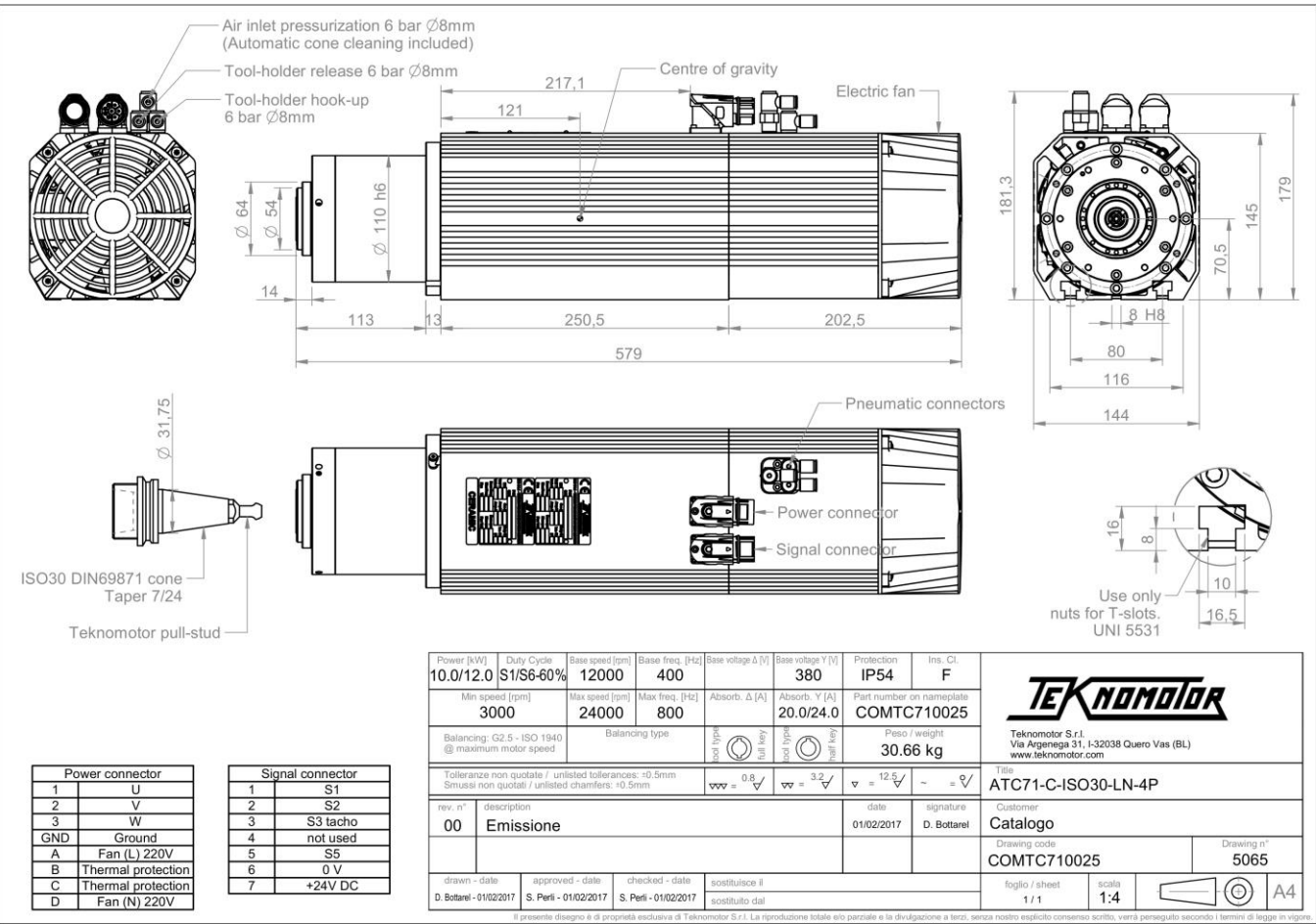
Power S6: 12.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

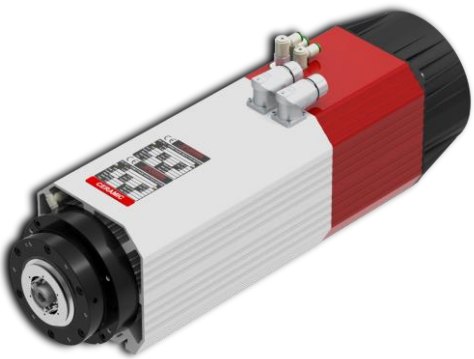
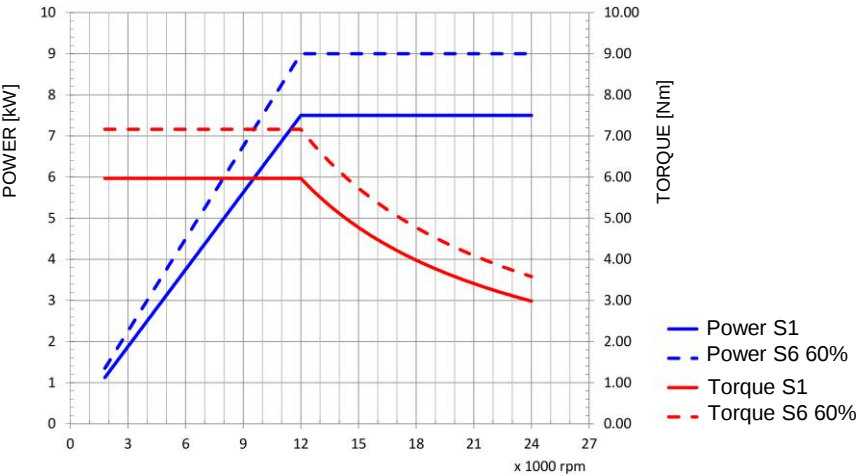
Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear



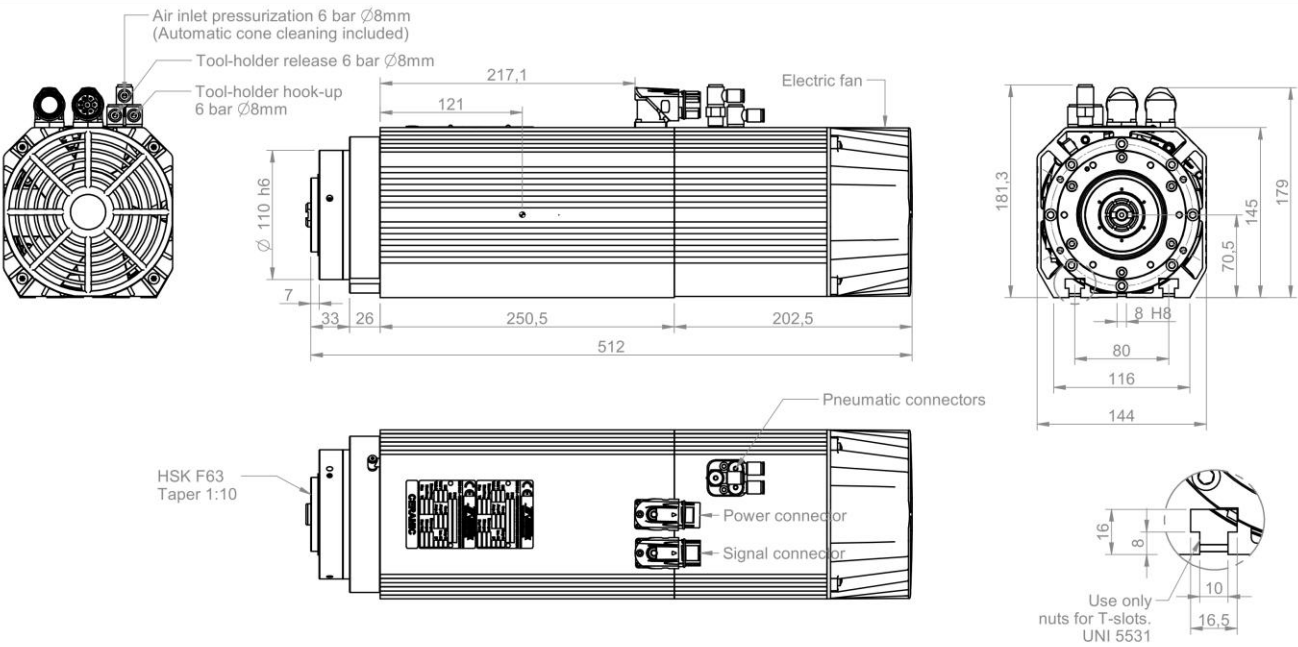
ATC71-C-HSK63F-SN

ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710028**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



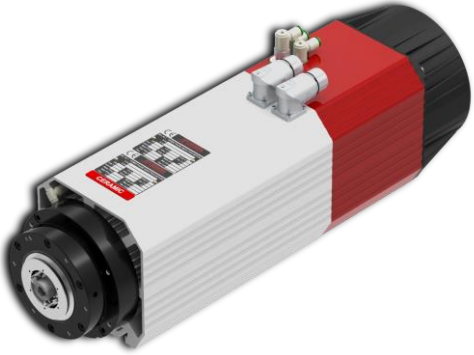
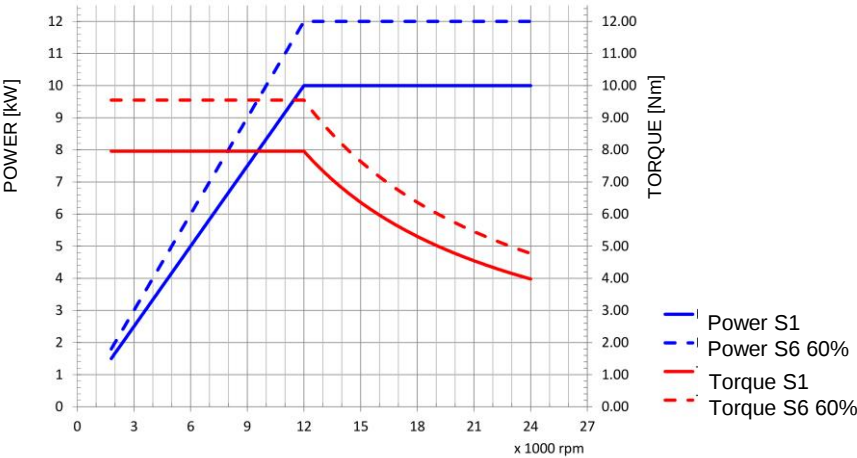
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                                |                                                                                                  |                                                                                                  |                                                                                                  |                                  |                                                                                                 |                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power [kW]<br><b>7.5-9.0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Duty Cycle<br><b>S1/S6-60 %</b> | Base speed [rpm]<br><b>12000</b>               | Base freq. [Hz]<br><b>200</b>                                                                    | Base voltage Δ [V]<br><b>380</b>                                                                 | Base voltage Y [V]<br><b>380</b>                                                                 | Protection<br><b>IP54</b>        | Ins. Cl.<br><b>F</b>                                                                            | <br><b>TEKNOMOTOR</b><br><br>Teknomotor S.r.l.<br>Via Agneggia 31 I-32038 Quero Vas (BL)<br>www.teknomotor.com |
| Min speed [rpm]<br><b>3000</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Max speed [rpm]<br><b>24000</b> | Max freq. [Hz]<br><b>400</b>                   | Absorb. Δ [A]<br><b>16.0/19.2</b>                                                                | Absorb. Y [A]<br><b>16.0/19.2</b>                                                                | Part number on nameplate<br><b>COMTC710028</b>                                                   |                                  |                                                                                                 |                                                                                                                                                                                                     |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 | Balancing type                                 | Food type<br> | Food type<br> | Food type<br> | Peso / weight<br><b>28.14 kg</b> |                                                                                                 |                                                                                                                                                                                                     |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm<br><br> = 0.8  = 3.2  = 12.5  = 5  = 10 |                                 |                                                |                                                                                                  |                                                                                                  |                                                                                                  |                                  |                                                                                                 |                                                                                                                                                                                                     |
| rev. n°<br><b>00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | description<br><b>Emissione</b> |                                                |                                                                                                  |                                                                                                  | date<br><b>01/02/2017</b>                                                                        | signature<br><b>D. Bottarel</b>  |                                                                                                 | Title<br><b>ATC71-C-HSK63F-SN</b>                                                                                                                                                                   |
| drawn - date<br><b>D. Bottarel - 01/02/2017</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | approved - date<br><b>S. Peri - 01/02/2017</b> |                                                                                                  | checked - date<br><b>S. Peri - 01/02/2017</b>                                                    |                                                                                                  | Customer<br><b>Catalogo</b>      |                                                                                                 | Drawing n°<br><b>5068</b>                                                                                                                                                                           |
| Drawing code<br><b>COMTC710028</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                                |                                                                                                  |                                                                                                  |                                                                                                  | Drawing n°<br><b>5068</b>        |                                                                                                 |                                                                                                                                                                                                     |
| sostituisce il<br><b>D. Bottarel - 01/02/2017</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | sostituito dal<br><b>S. Peri - 01/02/2017</b>  |                                                                                                  | foglio / sheet<br><b>1 / 1</b>                                                                   |                                                                                                  | scala<br><b>1:4</b>              |  <b>A4</b> |                                                                                                                                                                                                     |

ATC71-C-HSK63F-SN

ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710026**

Power S1: 10.0 Kw (S1) @12000 rpm

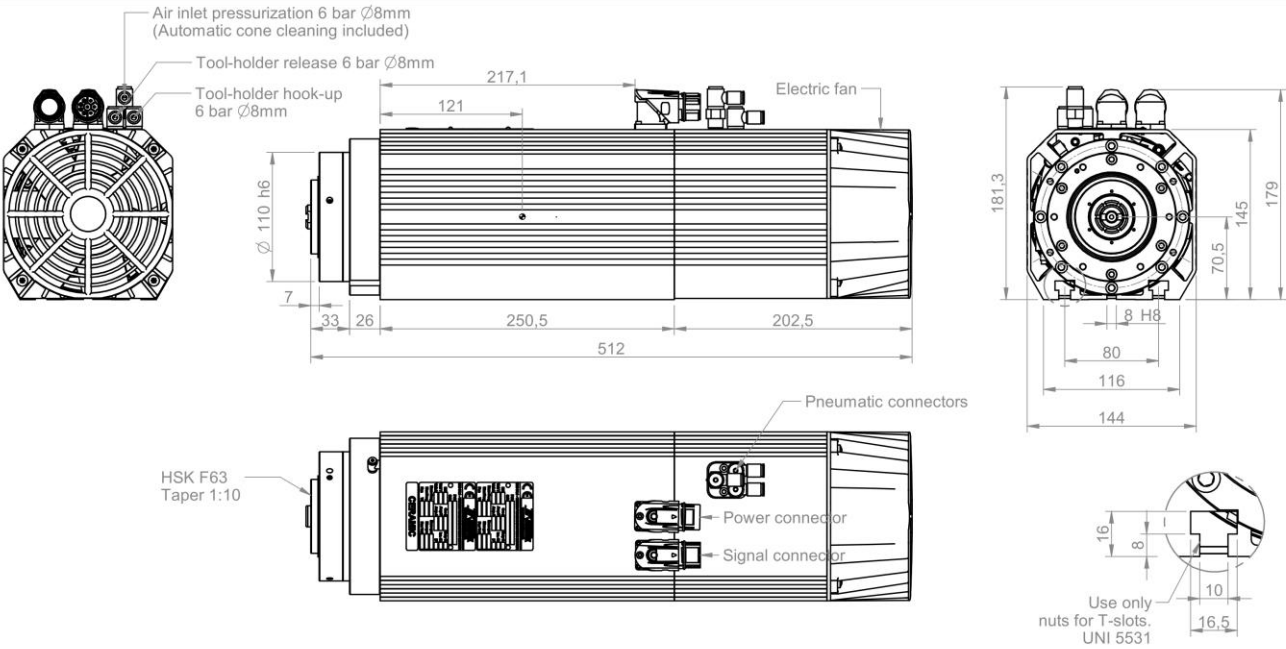
Power S6: 10.0 Kw (S6) @12000 rpm

Voltage: 380V (option 220V)

Poles: 4

Max speed: 24000 rpm @ 800 Hz

Bearings: Ceramic, front and rear



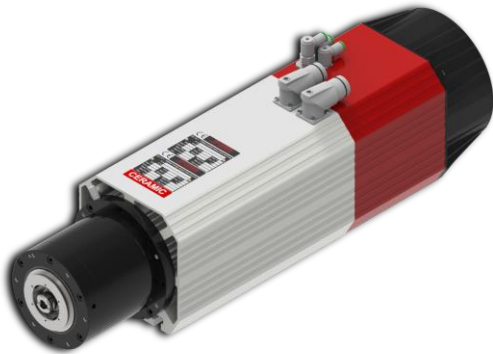
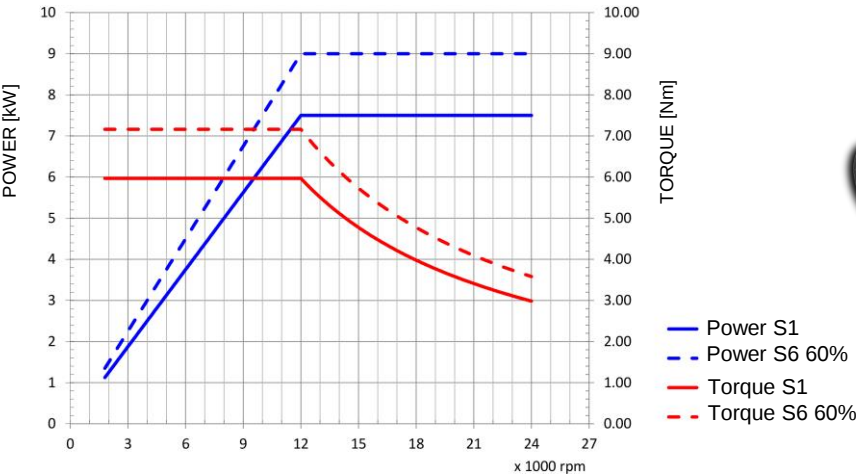
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                  |                      |                                                                                     |                                                                                     |                                                                                     |                                     |                                                                                       |                           |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power [kW]                                                                                       | Duty Cycle           | Base speed [rpm]                                                                    | Base freq. [Hz]                                                                     | Base voltage Δ [V]                                                                  | Base voltage Y [V]                  | Protection                                                                            | Ins. Cl.                  | <br><b>Teknomotor S.r.l.</b><br>Via Agneggia 31 I-32038 Quero Vas (BL)<br>www.teknomotor.com |
| 10.0/12.0                                                                                        | S1/S6-60%            | 12000                                                                               | 400                                                                                 | 380                                                                                 | 20.0/24.0                           | IP54                                                                                  | F                         |                                                                                                                                                                                   |
| Min speed [rpm]                                                                                  | Max speed [rpm]      | Max freq. [Hz]                                                                      | Absorb. Δ [A]                                                                       | Absorb. Y [A]                                                                       | Part number on nameplate            |                                                                                       |                           |                                                                                                                                                                                   |
| 3000                                                                                             | 24000                | 800                                                                                 |                                                                                     |                                                                                     | COMTC710026                         |                                                                                       |                           |                                                                                                                                                                                   |
| Balancing: G2.5 - ISO 1940 @ maximum motor speed                                                 | Balancing type       |  |  |  | Peso / weight                       |                                                                                       |                           |                                                                                                                                                                                   |
|                                                                                                  |                      |                                                                                     |                                                                                     |                                                                                     |                                     | 26.80 kg                                                                              |                           |                                                                                                                                                                                   |
| Tolerance non quote / unlisted tolerances: ±0.5mm<br>Smussi non quote / unlisted chamfers: 0.5mm |                      |                                                                                     |                                                                                     | $\sqrt{\text{mm}} = 0.8 \checkmark$                                                 | $\sqrt{\text{mm}} = 3.2 \checkmark$ | $\nabla = 12.5 \checkmark$                                                            | $\sim = \sqrt{\text{mm}}$ |                                                                                                                                                                                   |
| rev. n°                                                                                          | description          |                                                                                     |                                                                                     | date                                                                                | signature                           |                                                                                       |                           |                                                                                                                                                                                   |
| 00                                                                                               | Emissione            |                                                                                     |                                                                                     | 01/02/2017                                                                          | D. Bottarel                         |                                                                                       |                           |                                                                                                                                                                                   |
| drawn - date                                                                                     | approved - date      | checked - date                                                                      | sostituisce il                                                                      |                                                                                     | Drawing n°                          |                                                                                       |                           |                                                                                                                                                                                   |
| D. Bottarel - 01/02/2017                                                                         | S. Peri - 01/02/2017 | S. Peri - 01/02/2017                                                                | sostituito dal                                                                      |                                                                                     | COMTC710026 5066                    |                                                                                       |                           |                                                                                                                                                                                   |
|                                                                                                  |                      |                                                                                     |                                                                                     | foglio / sheet                                                                      | scala                               |  |                           |                                                                                                                                                                                   |
|                                                                                                  |                      |                                                                                     |                                                                                     | 1 / 1                                                                               | 1:4                                 |                                                                                       |                           |                                                                                                                                                                                   |
| A4                                                                                               |                      |                                                                                     |                                                                                     |                                                                                     |                                     |                                                                                       |                           |                                                                                                                                                                                   |

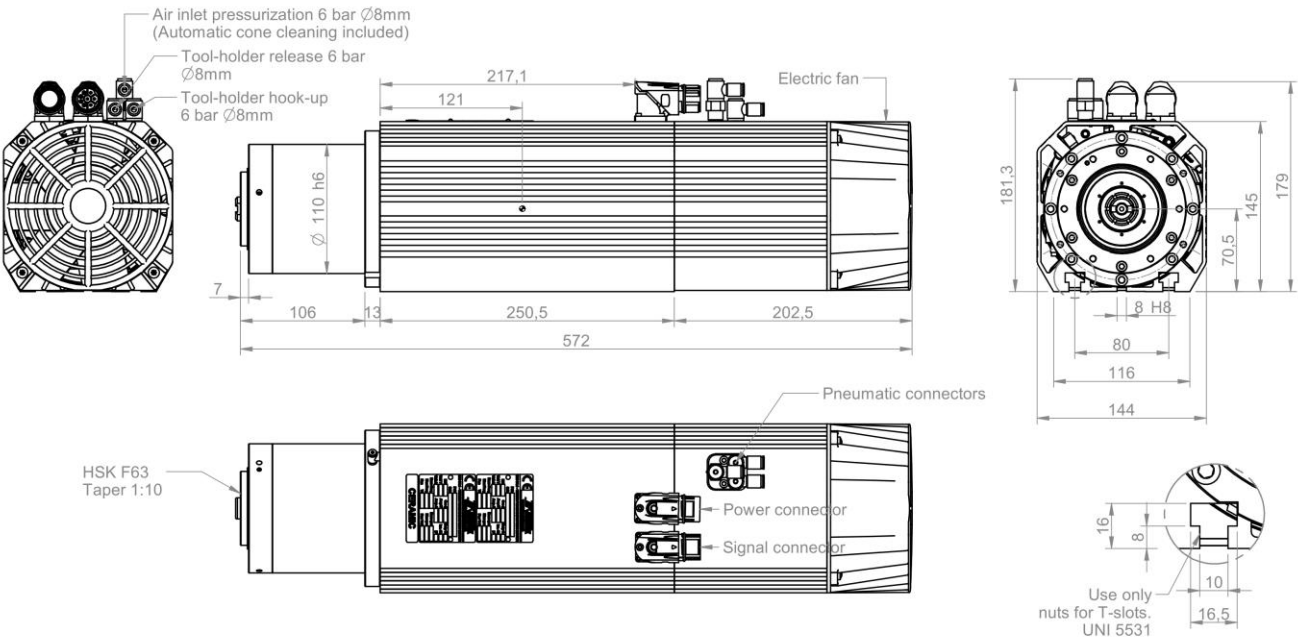
ATC71-C-HSK63F-LN

ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710005**

Power S1: 7.5 Kw (S1) @12000 rpm  
Power S6: 9.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 2  
Max speed: 24000 rpm @ 400 Hz  
Bearings: Ceramic, front and rear



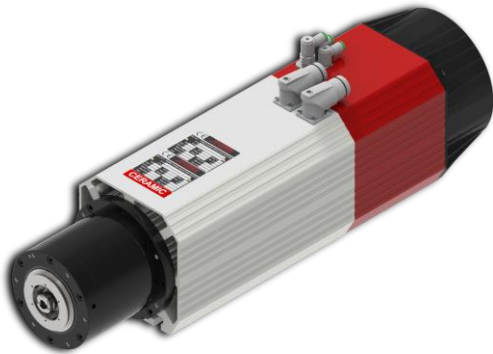
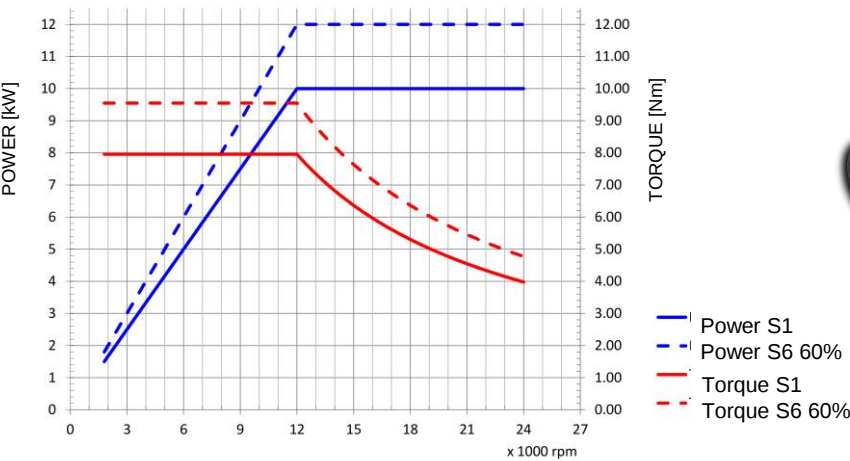
| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                          |                                         |                            |                                        |                                         |                                 |                            |                                                                                                                                                                                  |                                                                                       |    |
|-------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|----------------------------|----------------------------------------|-----------------------------------------|---------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
| Power [kW]<br>7.5/9.0                                                                                 | Duty Cycle<br>S1/S6-60 % | Base speed [rpm]<br>12000               | Base freq. [Hz]<br>200     | Base voltage Δ [V]<br>380              | Base voltage Y [V]<br>380               | Protection<br>IP54              | Ins. Cl.<br>F              | <br><b>Teknomotor S.r.l.</b><br>Via Agnèga 31, I-32038 Quero Vas (BL)<br>www.teknomotor.com |                                                                                       |    |
| Min speed [rpm]<br>3000                                                                               | Max speed [rpm]<br>24000 | Max freq. [Hz]<br>400                   | Absorb. Δ [A]<br>16.0/19.2 | Absorb. Y [A]<br>16.0/19.2             | Part number on nameplate<br>COMTC710005 |                                 |                            |                                                                                                                                                                                  |                                                                                       |    |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   | Balancing type           | Food type<br>Food type                  | Food type<br>Food type     | Food type<br>Food type                 | Peso / weight<br>32.10 kg               |                                 |                            |                                                                                                                                                                                  |                                                                                       |    |
| Tolerance non quotata / unlisted tolerances: +0.5mm<br>Smussi non quotati / unlisted chamfers: +0.5mm |                          |                                         |                            |                                        |                                         |                                 | Title<br>ATC71-C-HSK63F-LN |                                                                                                                                                                                  |                                                                                       |    |
| rev. n°<br>00                                                                                         | description<br>Emissione |                                         |                            |                                        | date<br>05/09/2014                      | signature<br>D. Bottarel        |                            | Customer<br>Catalogo                                                                                                                                                             |                                                                                       |    |
| drawn - date<br>D. Bottarel - 05/09/2014                                                              |                          | approved - date<br>S. Peri - 05/09/2014 |                            | checked - date<br>S. Peri - 05/09/2014 |                                         | sostituire il<br>sostituito dal |                            | Drawing code<br>COMTC710005                                                                                                                                                      | Drawing n°<br>3291                                                                    |    |
|                                                                                                       |                          |                                         |                            |                                        |                                         | foglio / sheet<br>1 / 1         |                            | scala<br>1:4                                                                                                                                                                     |  | A4 |

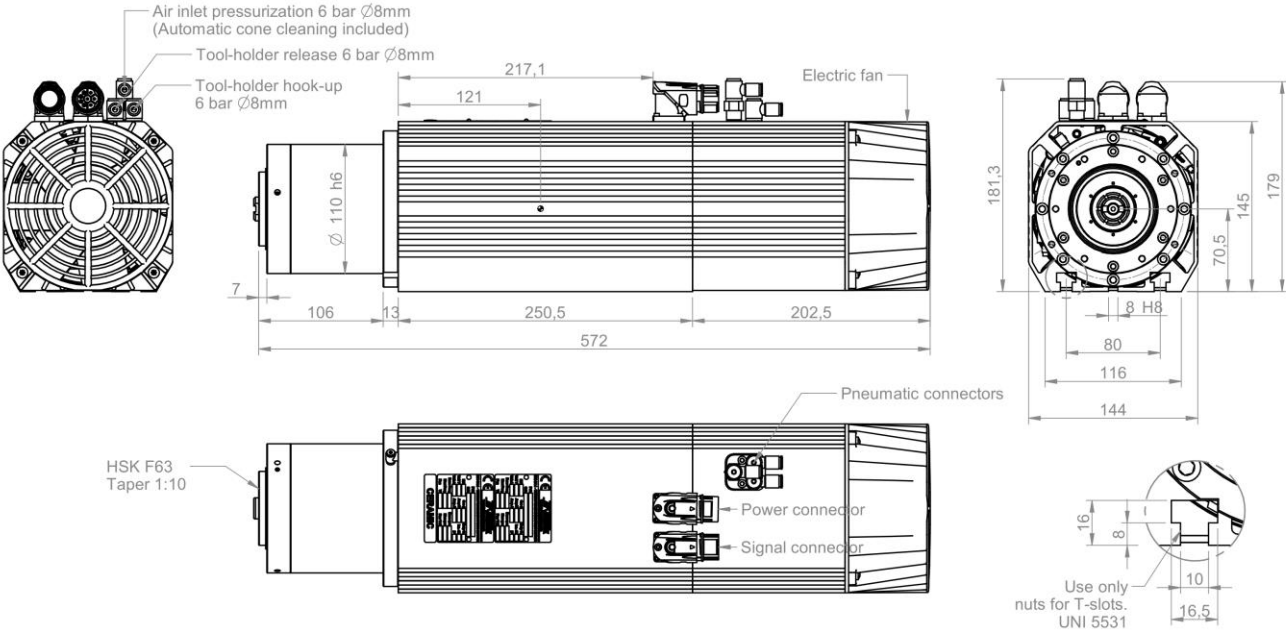
ATC71-C-HSK63F-LN

ATC71-C TORQUE AND POWER CURVES



Motor code: **COMTC710027**

Power S1: 10.0 Kw (S1) @12000 rpm  
Power S6: 12.0 Kw (S6) @12000 rpm  
Voltage: 380V (option 220V)  
Poles: 4  
Max speed: 24000 rpm @ 800 Hz  
Bearings: Ceramic, front and rear



| Power connector |                    |
|-----------------|--------------------|
| 1               | U                  |
| 2               | V                  |
| 3               | W                  |
| GND             | Ground             |
| A               | Fan (L) 220V       |
| B               | Thermal protection |
| C               | Thermal protection |
| D               | Fan (N) 220V       |

| Signal connector |          |
|------------------|----------|
| 1                | S1       |
| 2                | S2       |
| 3                | S3 tacho |
| 4                | S4       |
| 5                | S5       |
| 6                | 0 V      |
| 7                | +24V DC  |

|                                                                                                       |                      |                      |                                  |                    |                          |                      |                                                                                       |                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------------|--------------------|--------------------------|----------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power [kW]                                                                                            | Duty Cycle           | Base speed [rpm]     | Base freq. [Hz]                  | Base voltage Δ [V] | Base voltage Y [V]       | Protection           | Ins. Cl.                                                                              | <br>Teknomotor S.r.l.<br>Via Agneggia 31 I-32038 Quero Vas (BL)<br>www.teknomotor.com |
| 10.0/12.0                                                                                             | S1/S6-60%            | 12000                | 400                              | 380                | 380                      | IP54                 | F                                                                                     |                                                                                                                                                                            |
| Min speed [rpm]                                                                                       | Max speed [rpm]      | Max freq. [Hz]       | Absorb. Δ [A]                    | Absorb. Y [A]      | Part number on nameplate |                      |                                                                                       |                                                                                                                                                                            |
| 3000                                                                                                  | 24000                | 800                  | 20.0/24.0                        | 20.0/24.0          | COMTC710027              |                      |                                                                                       |                                                                                                                                                                            |
| Balancing: G2.5 - ISO 1940<br>@ maximum motor speed                                                   | Balancing type       | Load type            | Load type                        | Peso / weight      | 30.76 kg                 |                      |                                                                                       |                                                                                                                                                                            |
| Tolerance non quotata / unlisted tolerances: ±0.5mm<br>Smussi non quotati / unlisted chamfers: ±0.5mm |                      |                      |                                  |                    |                          |                      |                                                                                       | Title                                                                                                                                                                      |
| rev. n°                                                                                               | description          |                      |                                  | date               | signature                | ATC71-C-HSK63F-LN-4P |                                                                                       |                                                                                                                                                                            |
| 00                                                                                                    | Emissione            |                      |                                  | 01/02/2017         | D. Bottarel              | Customer<br>Catalogo |                                                                                       |                                                                                                                                                                            |
| Drawing code                                                                                          |                      |                      |                                  | Drawing n°         |                          |                      |                                                                                       |                                                                                                                                                                            |
| COMTC710027                                                                                           |                      |                      |                                  | 5067               |                          |                      |                                                                                       |                                                                                                                                                                            |
| drawn - date                                                                                          | approved - date      | checked - date       | sostituisce il<br>sostituito dal |                    | foglio / sheet           |                      |                                                                                       | scala                                                                                                                                                                      |
| D. Bottarel - 01/02/2017                                                                              | S. Peri - 01/02/2017 | S. Peri - 01/02/2017 |                                  |                    | 1 / 1                    |                      |                                                                                       | 1:4                                                                                                                                                                        |
|                                                                                                       |                      |                      |                                  |                    |                          |                      |  |                                                                                                                                                                            |

**TEKnomotor**

Teknomotor S.r.l.  
Via Agnèga 31, I-32038 Quero Vas (BL)  
www.teknomotor.com

Title  
ATC71-C-HSK63F-LN-4P

Customer  
Catalogo

Drawing code  
COMTC710027

Drawing n°  
5067



CABLE SETS

The connection cables provided by Teknomotor for its ATC are in **mobile lying, shielded and oil-proof** (PUR). All the wires are numbered and complete of insulated end ferrules. Moreover, the connectors are wired by professional companies, which ensure the compliance through testing. Teknomotor can even provide the connector with the PINs to wire, but do not recommend it.

I cavi di collegamento forniti da Teknomotor per i propri ATC sono in **posa mobile, sono schermati e resistenti all'olio** (PUR). Tutti i fili sono numerati e dotati di puntalini isolati. I connettori sono inoltre cablati da aziende specializzate, che ne garantiscono la conformità tramite collaudo. Teknomotor può anche fornire il connettore completo di PIN da cablare, ma lo sconsigliamo.

Die von Teknomotor mitgelieferten Verbindungskabel für die eigenen ATC werden **mobil verlegt, sind geschirmt und ölbeständig** (PUR). Alle Drähte sind durchnummeriert und mit isolierten Spitzen versehen. Die Verbinder wurden zudem von Fachbetrieben verkabelt, die durch Abnahme die Konformität zusichern. Teknomotor kann den Verbinder auch mit zu verkabelndem PIN anliefern, es ist jedoch nicht ratsam.

| SIGNAL CONNECTOR WIRING TABLE |                 |                                                |
|-------------------------------|-----------------|------------------------------------------------|
| SIGNAL CONNECTOR PIN          | COLOR WIRE      | CABLE TYPE                                     |
| 1                             | Green           | 3x(2x0.14) + 2x0.50<br>SHIELDED<br>GREEN CABLE |
| 2                             | Yellow          |                                                |
| 3                             | Grey            |                                                |
| 4                             | Blue            |                                                |
| 5                             | Pink            |                                                |
| 6                             | White (0V)      |                                                |
| 7                             | Brown (+24V DC) |                                                |
| 8                             | Red             |                                                |
| Frame connector               | Cable shield    |                                                |



MAX CURRENT: 24A

| POWER CONNECTOR WIRING TABLE |                        |                                                   |
|------------------------------|------------------------|---------------------------------------------------|
| POWER CONNECTOR PIN          | COLOR WIRE             | CABLE TYPE                                        |
| 2                            | Yellow / Green $\perp$ | 4G2.5<br>+ 2x(2x1)<br>SHIELDED<br>ORANGE<br>CABLE |
| 1                            | U                      |                                                   |
| 2                            | V                      |                                                   |
| 3                            | W                      |                                                   |
| Frame connector              | Cable shield           |                                                   |
| A                            | 5                      |                                                   |
| B                            | 6                      |                                                   |
| C                            | 7                      |                                                   |
| D                            | 8                      |                                                   |

| CABLE SET LENGHTS AVAILABLE [m] | ORDERING CODE |
|---------------------------------|---------------|
| 2                               | CAS0001       |
| 5                               | CAS0002       |
| 10                              | CAS0003       |
| 15                              | CAS0004       |
| 20                              | CAS0005       |

## TOOL HOLDERS – PORTAUTENSILI – WERKZEUGTRÄGER

The tool holders are provided by Teknomotor only on demand.

The ISO 30 toolholders are supplied complete with pull stud and balanced nut. The HSK 63F toolholders are supplied complete with balanced nut.

I portautensili vengono forniti da Teknomotor solo su richiesta.

I portautensili ISO 30 vengono forniti completi di codolo e ghiera equilibrata.

I portautensili HSK 63F vengono forniti completi di ghiera equilibrata.

Die Werkzeugträger werden nur auf Anfrage von Teknomotor geliefert.

Die Werkzeugträger ISO 30 werden mit Einspannzapfen und ausgewuchtetem Schraubstock angeliefert.

Die Werkzeugträger HSK 63F werden mit ausgewuchtetem Schraubstock angeliefert.

| TOOLHOLDER TYPES                           | THREAD DIMENSION | TAPER | ORDERING CODE                                                               | RENDER VIEW                                                                           |
|--------------------------------------------|------------------|-------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>ISO 30</b>                              | M40 x 1.5        | ER 32 | TOH0105A                                                                    |    |
| <b>HSK 63F</b>                             | M40 x 1.5        | ER 32 | TOH0205A                                                                    |  |
| <b>PULL STUD</b><br>for ISO 30 tool holder | M12              | -     | TOH0151A                                                                    |  |
| <b>NUT GTS32</b>                           | M40 x 1.5        | ER32  | GHS0205RA                                                                   |  |
| <b>COLLETS ER32</b>                        | -                | ER32  | PIN05<XX>00E<br>Where <b>XX</b> is the internal diameter of the collet [mm] |  |

FORKS

The forks for toolholders supplied by Teknomotor are made of ABS, a very lightweight, elastic and resistant thermoplastic polymer.

Le forks per portautensili fornite da Teknomotor sono realizzate in ABS, un polimero termoplastico estremamente leggero, elastico e resistente.

Die von Teknomotor unsere Werkzeugklammern sind aus ABS, ein thermoplastisch Polymer extem leicht, elastisch und resistant.

| FORK TYPE | ORDERING CODE | RENDER VIEW                                                                         |
|-----------|---------------|-------------------------------------------------------------------------------------|
| ISO30     | TOH0181A      |  |
| HSK63F    | TOH0281A      |  |

INVERTERS

The three phases inverters are suitable for every industrial application. They work with three phases line voltage of 380-400 V.

Gli inverter trifase sono adatti per ogni applicazione industriale. Funzionano con tensione di rete 380-400 V trifase.

Die Dreiphasen-Inverter sind für industrielle Einsätze geeignet. Sie werden mit einer dreiphasigen Netzspannung von 380-400V betrieben.



| TEKNOMOTOR<br>ORDERING CODE | TECHNICAL DATA |                |               |                          | SPINDLE TYPES                                            |                                                          |
|-----------------------------|----------------|----------------|---------------|--------------------------|----------------------------------------------------------|----------------------------------------------------------|
|                             | Power<br>[kVA] | Current<br>[A] | Freq.<br>[Hz] | T <sub>MAX</sub><br>[°C] | 2 poles                                                  | 4 poles                                                  |
| INV011207                   | 5.5            | 14.3           | 50            | 50                       | COMTC710001<br>COMTC710007                               | -                                                        |
| INV011208                   | 7.5            | 17.0           | 50            | 50                       | COMTC710004<br>COMTC710006<br>COMTC710008<br>COMTC710023 | -                                                        |
| INV011209                   | 11.0           | 27.7           | 50            | 50                       | COMTC710003<br>COMTC710005<br>COMTC710009<br>COMTC710028 | -                                                        |
| INV022109                   | 11.0           | 16.0           | 50            |                          | -                                                        | COMTC710020<br>COMTC710021<br>COMTC710023                |
| INV022110                   | 15.0           | 21.5           | 50            |                          | -                                                        | COMTC710014<br>COMTC710015<br>COMTC710018<br>COMTC710022 |
| INV022112                   | 22.0           | 30.0           | 50            |                          | -                                                        | COMTC710024<br>COMTC710025<br>COMTC710026<br>COMTC710027 |

## ATC71 CATALOGUE REVISION TABLE

| Doc. Code | Rev. n° | Rev. Date  | Rev. Description         | Rev. Author |
|-----------|---------|------------|--------------------------|-------------|
| DOC.C.003 | 00      | 28/02/2017 | 1 <sup>st</sup> Emission | E. Gaspari  |



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**AZIENDA CON SISTEMA  
DI GESTIONE QUALITÀ  
CERTIFICATO DA DNV GL  
= ISO 9001 =**