

No image  
available for this  
configuration.

Figure similar

MLFB-Ordering data 1FK7101-5AF71-1PG3

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

| Engineering data            |                               | Mechanical data          |                                                                      |
|-----------------------------|-------------------------------|--------------------------|----------------------------------------------------------------------|
| Rated speed (100 K)         | 3000 rpm                      | Motor type               | Permanent-magnet synchronous motor                                   |
| Number of poles             | 8                             | Motor type               | Compact                                                              |
| Rated torque (100 K)        | 15.5 Nm                       | Shaft height             | 100                                                                  |
| Rated current               | 11.8 A                        | Cooling                  | Natural cooling                                                      |
| Static torque (60 K)        | 22.40 Nm                      | Radial runout tolerance  | 0.050 mm                                                             |
| Static torque (100 K)       | 27.00 Nm                      | Concentricity tolerance  | 0.10 mm                                                              |
| Stall current (60 K)        | 15.70 A                       | Axial runout tolerance   | 0.10 mm                                                              |
| Stall current (100 K)       | 19.00 A                       | Vibration severity grade | Grade A                                                              |
| Moment of inertia           | 79.900 kgcm²                  | Connector size           | 1.5                                                                  |
| Efficiency                  | 93.0 %                        | Degree of protection     | IP64                                                                 |
| Physical constants          |                               | Design acc. to Code I    | IM B5 (IM V1, IM V3)                                                 |
| Torque constant             | 1.41 Nm/A                     | Temperature monitoring   | KTY84 temperature sensor in the stator winding                       |
| Voltage constant at 20° C   | 90.0 V/1000*min <sup>-1</sup> | Electrical connectors    | Connectors for signals and power rotatable                           |
| Winding resistance at 20° C | 0.15 Ω                        | Color of the housing     | Standard (Anthracite RAL 7016)                                       |
| Rotating field inductance   | 3.0 mH                        | Holding brake            | without holding brake                                                |
| Electrical time constant    | 20.00 ms                      | Shaft end                | Plain shaft                                                          |
| Mechanical time constant    | 1.80 ms                       | Encoder system           | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |
| Thermal time constant       | 60 min                        |                          |                                                                      |
| Shaft torsional stiffness   | 165000 Nm/rad                 |                          |                                                                      |
| Net weight of the motor     | 21.0 kg                       |                          |                                                                      |

MLFB-Ordering data                    1FK7101-5AF71-1PG3

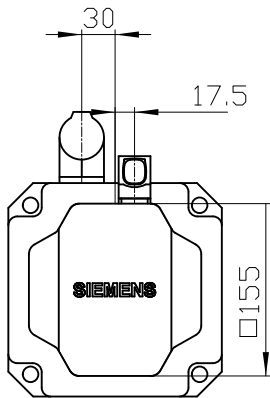
| Optimum operating point           |          | Recommended Motor Module |          |
|-----------------------------------|----------|--------------------------|----------|
| Optimum speed                     | 3000 rpm | Rated inverter current   | 18 A     |
| Optimum power                     | 4.9 kW   | Maximum inverter current | 36 A     |
| Limiting data                     |          | Maximum torque           | 51.00 Nm |
| Max. permissible speed (mech.)    | 5000 rpm |                          |          |
| Max. permissible speed (inverter) | 6400 rpm |                          |          |
| Maximum torque                    | 80.0 Nm  |                          |          |
| Maximum current                   | 63.0 A   |                          |          |

Confie a titre de secret d'entreprise. Tous droits réservés.  
Confidado como secreto industrial. Nos reservamos todos los derechos  
Comunicado como segredo empresarial. Reservados todos os direitos

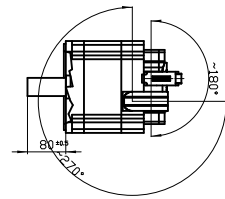
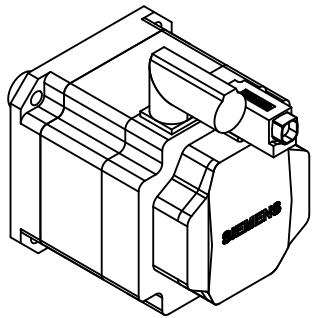
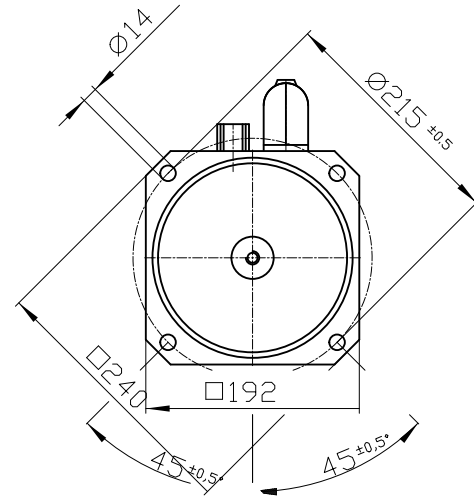
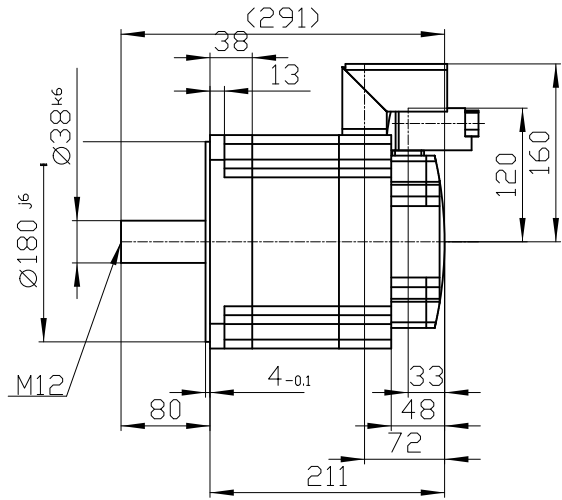
Weitergabe sowie Vervielfältigung dieser Unterlage. Verwer-  
tung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht  
ausdrücklich zugestanden. Zuwahlungen verpflichten  
zu Schadenersatz. Alle Rechte vorbehalten, insbesondere fuer  
den Fall der Patenterteilung oder der Eintragung

The reproduction or use of this document or its  
contents is not permitted without express written authority.  
Offenders will be liable for damages. All rights, including rights  
created by patent grant or registration of a utility model or design,  
are reserved.

Copyright© Siemens AG 2005  
Cada-drawing do not make any  
manual changes

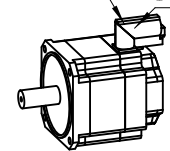


DIN 332-DR M12



Connector size 1.5 = M40;  
6-pole for power and brake

10-pole RJ45 socket



|            |         |                    |  |
|------------|---------|--------------------|--|
|            |         |                    |  |
| Unit       | mm [in] | 1FK7101-5AF71-1PG3 |  |
| Date       | 7/27/23 |                    |  |
| SIEMENS AG |         |                    |  |
|            |         |                    |  |
|            |         | DT                 |  |