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*Data sheet for three-phase Squirrel-Cage-Motors*



**SIMOTICS GP - 90 L - IM B5 - 4p**

|                              |                 |                  |
|------------------------------|-----------------|------------------|
| Número de pedido del cliente | número de ítem  | Número de oferta |
| Nº. de pedido Siemens        | Número de envío | Proyecto         |

Nota

### Safe Area

| U               | $\Delta / Y$ | f    | P       | P    | I     | n       | M    | $\eta^{3)}$ |      |              | $\cos\varphi^{3)}$ |                        |      | $I_A/I_N$ | $M_A/M_N$ | $M_K/M_N$ | IE-CL |
|-----------------|--------------|------|---------|------|-------|---------|------|-------------|------|--------------|--------------------|------------------------|------|-----------|-----------|-----------|-------|
| [V]             |              | [Hz] | [kW]    | [hp] | [A]   | [1/min] | [Nm] | 4/4         | 3/4  | 2/4          | 4/4                | 3/4                    | 2/4  | $I_A/I_N$ | $T_A/T_N$ | $T_B/T_N$ |       |
| 400             | $\Delta$     | 50   | 2,20    | -/-  | 4,65  | 1425    | 14,7 | 84,3        | 85,6 | 85,0         | 0,81               | 0,73                   | 0,61 | 6,1       | 2,8       | 3,1       | IE2   |
| 690             | Y            | 50   | 2,20    | -/-  | 2,70  | 1425    | 14,7 | 84,3        | 85,6 | 85,0         | 0,81               | 0,73                   | 0,61 | 6,1       | 2,8       | 3,1       | IE2   |
| 460             | $\Delta$     | 60   | 2,54    | -/-  | 4,75  | 1725    | 14,1 | 83,0        | 84,0 | 83,4         | 0,81               | 0,74                   | 0,62 | 6,5       | 2,7       | 3,3       | IE1   |
| 460             | $\Delta$     | 60   | 2,20    | -/-  | 4,25  | 1740    | 12,1 | 83,0        | 83,4 | 82,1         | 0,78               | 0,70                   | 0,58 | 7,2       | 3,2       | 3,9       | IE1   |
| IM B5 / IM 3001 |              |      | FS 90 L |      | 16 kg |         | IP55 |             |      | IEC/EN 60034 |                    | IEC, DIN, ISO, VDE, EN |      |           |           |           |       |

Condiciones ambientales / *Environmental conditions*: -20 °C - +40 °C / 1.000 m

|                                                                                     |                                 |                                 |                                  |                                                       |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|-------------------------------------------------------|
| Nivel sonoro (LpA / LwA) a 50Hz/60Hz                                                | 56.0 / 68.0 dB(A) <sup>2)</sup> | 58.0 / 70.0 dB(A) <sup>2)</sup> | Agujeros drenaje de condensado   | No                                                    |
| Sound level (SPL / SWL) at 50Hz/60Hz                                                |                                 |                                 | Condensate drainage holes        | No                                                    |
| Momento de inercia                                                                  |                                 |                                 | Borne de tierra externo          | No                                                    |
| Moment of inertia                                                                   | 0,0049 kg m <sup>2</sup>        |                                 | External earthing terminal       | No                                                    |
| Tamaño de rodamiento LA  LB                                                         | 6205 2Z C3                      | 6004 2Z C3                      | Nivel de intensidad de vibración | A                                                     |
| Bearing DE   NDE                                                                    |                                 |                                 | Vibration severity grade         | A                                                     |
| <b>La vida útil de los cojinetes</b>                                                |                                 |                                 | Aislamiento                      | 155(F) a 130(B)                                       |
| <b>bearing lifetime</b>                                                             |                                 |                                 | Insulation                       | 155(F) to 130(B)                                      |
| L <sub>10mh</sub> F <sub>Rad max</sub> según el catálogo 50 60Hz                    |                                 |                                 | Tipo de servicio                 | S1                                                    |
| <sup>1)</sup>                                                                       | 20000 h                         | 16000 h                         | Duty type                        |                                                       |
| L <sub>10mh</sub> F <sub>Rad max</sub> acc. catalogue 50 60Hz <sup>1)</sup>         |                                 |                                 | Sentido de giro                  | ambas direcciones                                     |
| L <sub>10mh</sub> F <sub>Rad min</sub> para la operación de                         |                                 |                                 | Direction of rotation            | bidireccional                                         |
| acoplamiento 50 60Hz <sup>1)</sup>                                                  | 40000 h                         | 32000 h                         | Material de la carcasa           | aluminio                                              |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> |                                 |                                 | Frame material                   | aluminum                                              |
| Lubricante                                                                          |                                 |                                 | Pintura                          | Pintura normal C2                                     |
| Lubricants                                                                          | Unirex N3                       |                                 | Coating (paint finish)           | Standard paint finish C2                              |
| Dispositivo de relubricación                                                        | No                              |                                 | Color                            | RAL7030                                               |
| Regreasing device                                                                   | No                              |                                 | Color, paint shade               |                                                       |
| Boquilla de engrase                                                                 | -/-                             |                                 | Proteccion del motor             | (A) sin (estándar)                                    |
| Grease nipple                                                                       |                                 |                                 | Motor protection                 | (A) without (Standard)                                |
| Tipo de rodamientos                                                                 | Cojinete pretensado LA/DE       |                                 | Método de refrigeración          | IC411 - ventilación propia, refrigeración superficial |
| Type of bearing                                                                     | Preloaded bearing DE            |                                 | Method of cooling                | IC411 - self ventilated, surface cooled               |

|                                   |           |                                |                  |
|-----------------------------------|-----------|--------------------------------|------------------|
| Posición de la caja de conexiones | arriba    | Diámetro de cable de...        | 9.0 mm - 17.0 mm |
| Terminal box position             | top       | Cable diameter from ... to ... |                  |
| Material de la caja de bornes     | aluminio  | Entrada de cable               | 1xM25x1,5        |
| Material of terminal box          | Aluminium | Cable entry                    |                  |
| Tipo                              | TB1 E00   | Pasacables                     | 1 tapón          |
| Type of terminal box              |           | Cable gland                    | 1 plug           |
| Rosca del tornillo de contacto    | M4        |                                |                  |
| Contact screw thread              |           |                                |                  |
| Sección de conductor, máx.        | 1.5 mm²   |                                |                  |
| Max. cross-sectional area         |           |                                |                  |

## Observaciones:

|                                                 |                                          |                                                                                            |
|-------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------|
| $I_{a}/I_{N}$ = corriente de arranque / nominal | 1) L10mh según DIN ISO 281 10/2010       | 3) Solo válido para servicio DOL con velocidad de giro fija en servicio refrigerante IC411 |
| $M_{a}/M_{N}$ = par de arranque / nominal       | 2) con potencia asignada / a plena carga |                                                                                            |
| $M_{v}/M_{N}$ = par de vuelco / nominal         |                                          |                                                                                            |

|                                                                                    |                               |                               |             |                             |                                   |                   |               |
|------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------|-----------------------------|-----------------------------------|-------------------|---------------|
| responsible dep.<br>DI MC LVM                                                      | technical reference           | created by<br>DT Configurator | approved by |                             |                                   |                   |               |
|  | document type<br>datasheet    |                               |             | document status<br>released |                                   | customer          |               |
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# Hoja de datos de motores de jaula de ardilla trifásicos SIMOTICS

Data sheet for three-phase Squirrel-Cage-Motors



Tipo de motor: 1AV2096B

SIMOTICS GP - 90 L - IM B5 - 4p

## Versiones especiales / Special design

M11 Stainless steel rating plate  
Stainless steel rating plate

## Observaciones:

responsible dep.  
DI MC LVM

technical reference

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DT Configurator

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