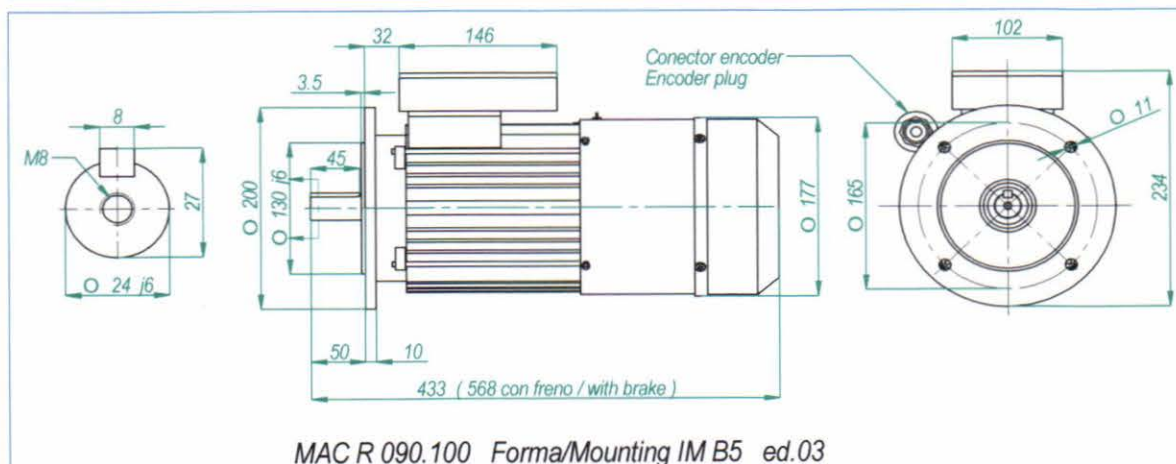
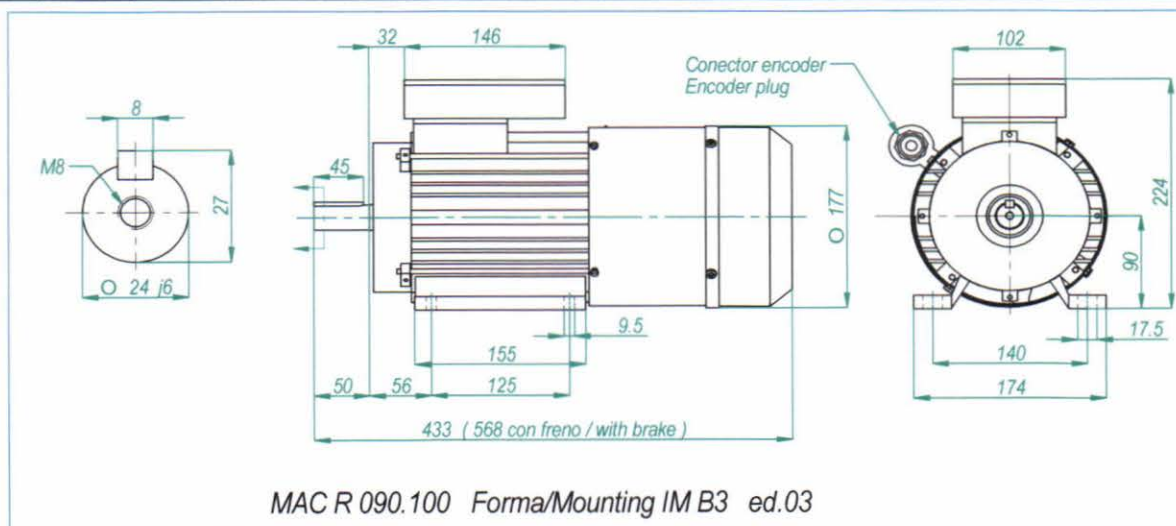


|                                                                        |  |  |                                |  |                               |                                              |         |       |                                                                                 |                                              |         |        |                                   |                                                           |                               |                                 |  |            |  |                            |  |                     |  |
|------------------------------------------------------------------------|--|--|--------------------------------|--|-------------------------------|----------------------------------------------|---------|-------|---------------------------------------------------------------------------------|----------------------------------------------|---------|--------|-----------------------------------|-----------------------------------------------------------|-------------------------------|---------------------------------|--|------------|--|----------------------------|--|---------------------|--|
| <b>Ventilador / Fan</b>                                                |  |  | Rodamientos<br><i>Bearings</i> |  | Delantero<br><i>Drive End</i> |                                              | 6205 ZZ |       | Trasero<br><i>Non Drive End</i>                                                 |                                              | 6205 ZZ |        |                                   |                                                           |                               |                                 |  |            |  |                            |  |                     |  |
| Tensión / <i>Voltage</i>                                               |  |  | 1ph 230 V                      |  |                               | Momento de inercia<br><i>Rotor Inertia</i>   |         |       |                                                                                 | J = 0,00383 Kg m <sup>2</sup>                |         |        | Peso Motor<br><i>Motor Weight</i> |                                                           | 16 Kg                         |                                 |  |            |  |                            |  |                     |  |
| Frec. / <i>Frequency</i>                                               |  |  | 50 Hz    60 Hz                 |  |                               | Protección<br><i>Protection Degree</i>       |         | IP 54 |                                                                                 | Construcción<br><i>Mounting</i>              |         |        |                                   | IM B3 / B5                                                |                               | Refrigeración<br><i>Cooling</i> |  | IC416      |  |                            |  |                     |  |
| Corriente / <i>Current</i>                                             |  |  | 0,30 A    0,37 A               |  |                               | Nivel de ruido<br><i>Noise Level</i>         |         |       |                                                                                 | < 70 dB                                      |         |        |                                   | Velocidad máxima mecánica<br><i>Max. Mechanical Speed</i> |                               |                                 |  | 5000 rpm   |  |                            |  |                     |  |
| Condens. / <i>Capacitor</i>                                            |  |  | 2 uF / 450 V                   |  |                               | Equilibrado grado<br><i>Balancing degree</i> |         | A     |                                                                                 | Aislamiento Clase<br><i>Insulation Class</i> |         | F      |                                   | Protección Térmica<br><i>Thermal Protection</i>           |                               |                                 |  | PTC 140 °C |  | Ambiente<br><i>Ambient</i> |  | < 40 °C    < 1000 m |  |
| <b>Freno de Bloqueo (opcional)<br/><i>Holding Brake (optional)</i></b> |  |  | 25 Nm                          |  |                               | 400V 50Hz / 460V 60Hz                        |         |       | 0,28 A                                                                          |                                              |         | 3,9 Kg |                                   |                                                           | J = 0.00084 Kg m <sup>2</sup> |                                 |  |            |  |                            |  |                     |  |
| Tensión de Base del Motor<br><i>Motor Base Voltage</i>                 |  |  | Vb                             |  |                               | 400 V                                        |         |       | Tensión Máxima de Salida del Convertidor<br><i>Inverter max. Output Voltage</i> |                                              |         | Vc     |                                   |                                                           | 400 V                         |                                 |  |            |  |                            |  |                     |  |

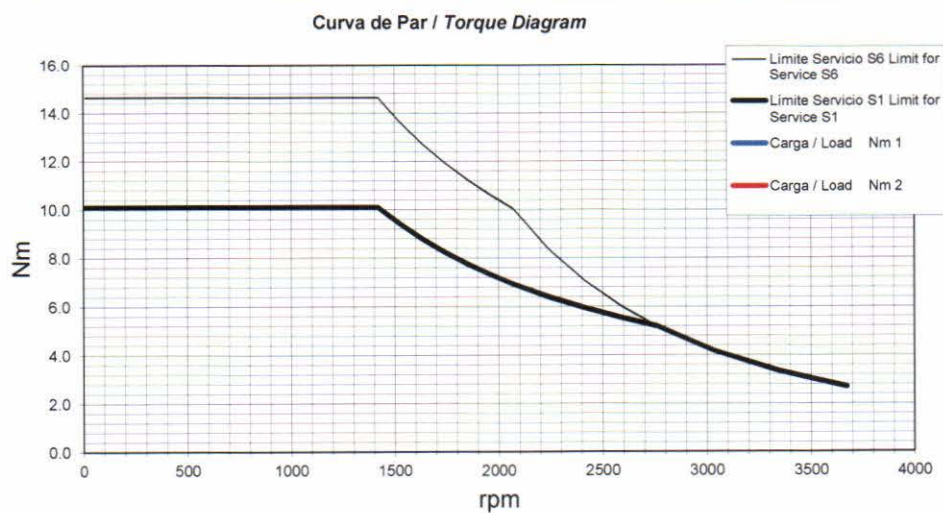
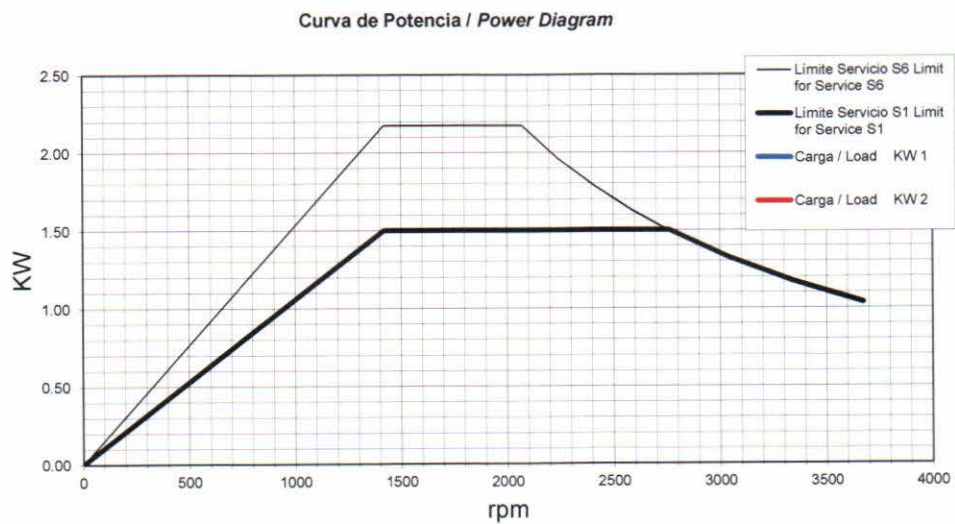
| Conexión<br>Connection | Servicio / Service S1 |     |     |      |    |                                                     | Servicio / Service S6 - 40% |     |     |      |    |                                                     | Corriente en vacío<br>No Load Current (A) |
|------------------------|-----------------------|-----|-----|------|----|-----------------------------------------------------|-----------------------------|-----|-----|------|----|-----------------------------------------------------|-------------------------------------------|
|                        | Nm                    | A   | KW  | rpm  | Hz | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) | Nm                          | A   | KW  | rpm  | Hz | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) |                                           |
| Y                      | 10.1                  | 3.4 | 1.5 | 1420 | 50 | 2760                                                | 14.6                        | 4.4 | 2.2 | 1420 | 51 | 2070                                                | 2.1                                       |
| D                      | 10.1                  | 5.9 | 2.7 | 2530 | 87 | 4930                                                | 14.6                        | 7.7 | 3.9 | 2530 | 88 | 3700                                                | 3.6                                       |



|          |         |          |
|----------|---------|----------|
| Elabora: | Revisa: | Aprueba: |
| #####    | #####   | #####    |

|                                                        |              |                                                                                 |              |
|--------------------------------------------------------|--------------|---------------------------------------------------------------------------------|--------------|
| Tensión de Base del Motor<br><i>Motor Base Voltage</i> | <b>400 V</b> | Tensión Máxima de Salida del Convertidor<br><i>Inverter max. Output Voltage</i> | <b>400 V</b> |
|--------------------------------------------------------|--------------|---------------------------------------------------------------------------------|--------------|

|                     | Servicio / Service S1 |     |     |      |    |                                                     | Servicio / Service S6 - 40% |   |     |      |    |                                                     |                                              |
|---------------------|-----------------------|-----|-----|------|----|-----------------------------------------------------|-----------------------------|---|-----|------|----|-----------------------------------------------------|----------------------------------------------|
| Bobinado<br>Winding | Nm                    | A   | KW  | rpm  | Hz | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) | Nm                          | A | KW  |      | Hz | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) | Corriente en vacío<br>No Load Current<br>(A) |
| Y                   | 10.1                  | 3.4 | 1.5 | 1420 | 50 | 2760                                                | 15                          | 4 | 2.2 | 1420 | 51 | 2070                                                | 2.1                                          |

[illegible][illegible]



# MOTOR MAC R 090.100

Parámetros motor / Motor parameters

Fecha - Date 27-10-11

## PLACA DE CARACTERÍSTICAS / NAMEPLATE DATA

|             | R090.100<br>Y | R090.100<br>D |
|-------------|---------------|---------------|
| Nm          | 10            | 10            |
| rpm         | 1420          | 2530          |
| KW          | 1.5           | 2.7           |
| V           | 400           | 400           |
| A           | 3.4           | 5.9           |
| Hz          | 50.0          | 87.0          |
| Cos fi      | 0.75          | 0.75          |
| Rend / eff. | 0.85          | 0.87          |
| J (Kg m2)   | 0.00383       | 0.00383       |

## ESQUEMA EQUIVALENTE POR FASE EN ESTRELLA / PHASE STAR EQUIVALENT SCHEMA

|             | R090.100<br>Y | R090.100<br>D |
|-------------|---------------|---------------|
| Rs (Ohm)    | 4.30          | 1.43          |
| Rr (Ohm)    | 4.20          | 1.40          |
| Rfe (Ohm)   | 2020          | 673           |
| Ls (mH)     | 25            | 8             |
| Lm (mH)     | 308           | 103           |
| Ts (ms)     | 77            | 77            |
| Tr (ms)     | 73            | 73            |
| Im (A/fase) | 2.1           | 3.6           |

