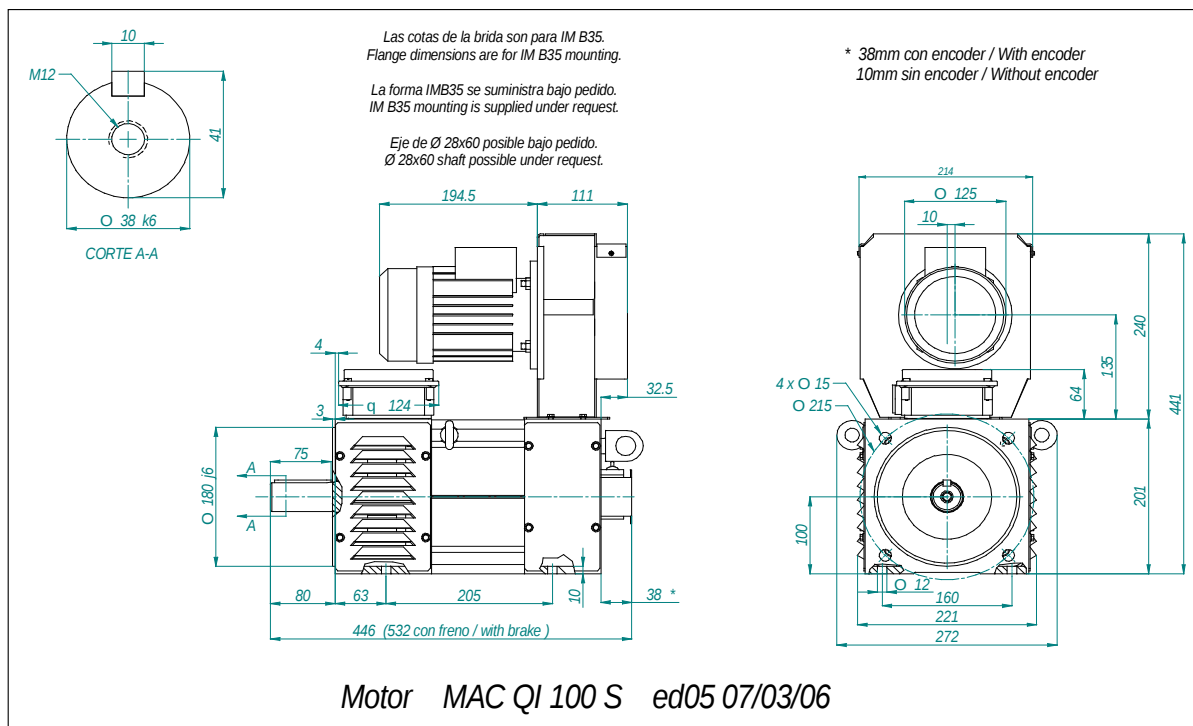


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|  | <b>MOTOR MAC QI 100 S</b><br>- Hoja de Datos Técnicos -<br>- Technical Datasheet - | Código DT-QI100S<br>Edición 08<br>Página 1/2<br>Fecha 19/03/2015 |
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|                                                                                                                                                        |                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Ventilador / Fan</b>                                                                                                                                | Rodamientos Delantero 6308 ZZ C3 Trasero 6207 ZZ C3                               |
| Tipo de Refrigeración IC 06                                                                                                                            | Bearings Drive End Non Drive End                                                  |
| Cooling Mode                                                                                                                                           | Nº de polos 4 Momento de inercia J = 0,011 Kg m <sup>2</sup> Peso Motor 50 Kg     |
| Alimentación / Supply 400 V 50Hz                                                                                                                       | No. of poles Rotor Inertia Motor Weight                                           |
| Potencia / Power 0,25 kW                                                                                                                               | Protección IP 23 Construcción IM B3 / B35 Equilibrado grado A                     |
| Corriente / Current 0,71 A                                                                                                                             | Protection Degree Mounting Balancing degree                                       |
| Velocidad / Speed 2800 rpm                                                                                                                             | Nivel de ruido < 70 dB Velocidad máxima mecánica 7500 rpm                         |
| Caudal / Air flow 570 m3/h                                                                                                                             | Noise Level Max. Mechanical Speed                                                 |
| Presión / Pressure 450 Pa                                                                                                                              | Aislamiento Clase F Protección Térmica PTC 140 °C Ambiente < 40 °C < 1000 m       |
| Por favor, indicar en los pedidos la alimentación deseada para el ventilador / Please indicate the required fan supply voltage when placing your order | Insulation Class Thermal Protection Ambient                                       |
| <b>Freno de Bloqueo (opcional)</b>                                                                                                                     | Normas de referencia EN60034 Conmutación Variador 4 kHz ; du/dt TS60034-25 Type B |
| <b>Holding Brake (optional)</b>                                                                                                                        | Reference Standards Inverter Switching                                            |
| Tensión de Base del Motor Vb 400 V                                                                                                                     | Tensión Máxima de Salida del Convertidor Vc 400 V                                 |
| Motor Base Voltage                                                                                                                                     | Inverter max. Output Voltage                                                      |

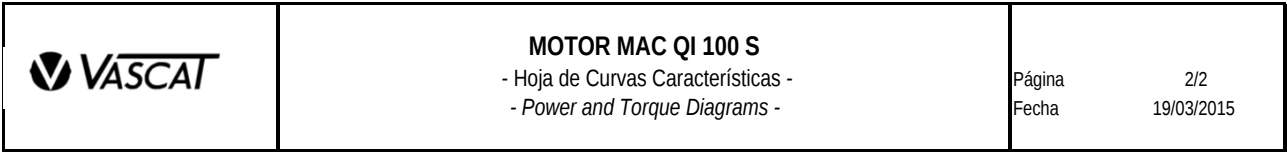
|                  | Servicio / Service S1 |      |      |      |     |                                               | Servicio / Service S6 - 40% |    |      |      |     |                                               |                                        |
|------------------|-----------------------|------|------|------|-----|-----------------------------------------------|-----------------------------|----|------|------|-----|-----------------------------------------------|----------------------------------------|
| Bobinado Winding | Nm                    | A    | kW   | rpm  | Hz  | Velocidad a Pot.Cte Const. Power Speed. (rpm) | Nm                          | A  | kW   | rpm  | Hz  | Velocidad a Pot.Cte Const. Power Speed. (rpm) | Corriente en vacío No Load Current (A) |
| 111              | 38                    | 8.1  | 3.0  | 745  | 27  | 1670                                          | 56                          | 11 | 4.3  | 745  | 28  | 1240                                          | 4.3                                    |
| 211              | 38                    | 10.4 | 4.3  | 1072 | 38  | 2410                                          | 56                          | 14 | 6.3  | 1072 | 39  | 1790                                          | 5.4                                    |
| 112              | 38                    | 13.4 | 5.7  | 1433 | 50  | 3220                                          | 56                          | 18 | 8.4  | 1433 | 51  | 2390                                          | 7.2                                    |
| 121              | 38                    | 15.4 | 6.7  | 1673 | 58  | 3760                                          | 56                          | 21 | 9.8  | 1673 | 59  | 2800                                          | 8.3                                    |
| 212              | 38                    | 17.6 | 7.8  | 1972 | 68  | 4430                                          | 56                          | 24 | 11.5 | 1972 | 69  | 3300                                          | 9.4                                    |
| 221              | 38                    | 20.3 | 9.2  | 2302 | 79  | 5170                                          | 56                          | 27 | 13.4 | 2302 | 80  | 3840                                          | 10.7                                   |
| 122              | 38                    | 26.2 | 12.1 | 3052 | 104 | 6860                                          | 56                          | 35 | 17.8 | 3052 | 105 | 5100                                          | 13.8                                   |
| 222              | 38                    | 35.1 | 16.3 | 4102 | 139 | 7500                                          | 56                          | 47 | 23.9 | 4102 | 140 | 6850                                          | 18.7                                   |

Otras Velocidades disponibles bajo consulta a nuestra O.T. / Other speeds available on request



Datos Técnicos sujetos a modificaciones sin previo aviso / Technical Data are subject to changes without prior notice

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



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|  <b>VASCAT</b> | <p align="center"><b>MOTOR MAC QI 100 S</b></p> <p align="center">- Hoja de Curvas Características -<br/>- Power and Torque Diagrams -</p> | <p>Página 2/2<br/>Fecha 19/03/2015</p> |
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|  <b>VASCAT</b> | <p align="center"><b>MOTOR MAC QI 100 S</b></p> <p align="center">- Hoja de Curvas Características -<br/>- Power and Torque Diagrams -</p> | <p>Página 2/2<br/>Fecha 19/03/2015</p> |
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|  <b>VASCAT</b> | <p align="center"><b>MOTOR MAC QI 100 S</b></p> <p align="center">- Hoja de Curvas Características -<br/>- Power and Torque Diagrams -</p> | <p>Página 2/2<br/>Fecha 19/03/2015</p> |
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|  <b>VASCAT</b> | <p align="center"><b>MOTOR MAC QI 100 S</b></p> <p align="center">- Hoja de Curvas Características -<br/>- Power and Torque Diagrams -</p> | <p>Página 2/2<br/>Fecha 19/03/2015</p> |
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|                                                        |              |
|--------------------------------------------------------|--------------|
| Tensión de Base del Motor<br><i>Motor Base Voltage</i> | <b>400 V</b> |
|--------------------------------------------------------|--------------|

|                                                        |              |
|--------------------------------------------------------|--------------|
| 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> |
|---------------------------------------------------------------------------------|--------------|

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

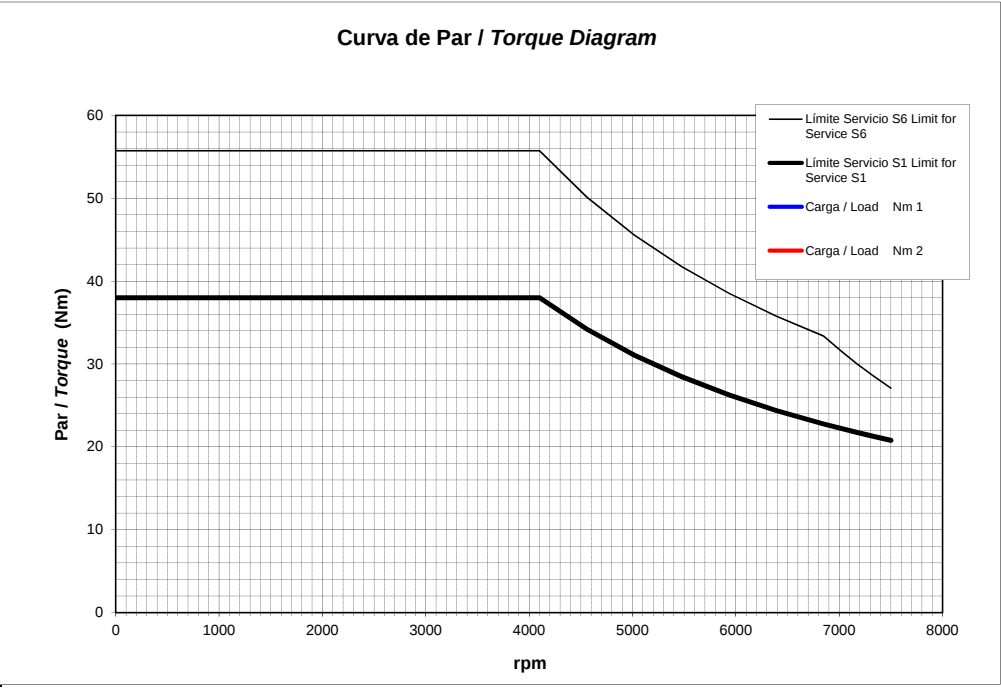
|                     | Servicio / Service S1 |      |      |      |     |                                                     | Servicio / Service S6 - 40% |      |      |      |     |                                                     |                                              |
|---------------------|-----------------------|------|------|------|-----|-----------------------------------------------------|-----------------------------|------|------|------|-----|-----------------------------------------------------|----------------------------------------------|
| Bobinado<br>Winding | Nm                    | A    | KW   | rpm  | Hz  | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) | Nm                          | A    | KW   | rpm  | Hz  | Velocidad a Pot.Cte<br>Const. Power Speed.<br>(rpm) | Corriente en vacío<br>No Load Current<br>(A) |
| 222                 | 38                    | 35.1 | 16.3 | 4102 | 139 | 7500                                                | 56                          | 47.4 | 23.9 | 4102 | 140 | 6850                                                | 18.7                                         |

[illegible]

### Curva de Par / Torque Diagram

The diagram is a line graph with 'rpm' on the x-axis (0 to 8000) and 'Par / Torque (Nm)' on the y-axis (0 to 60). It features a light gray grid. Two horizontal lines represent torque limits: a thin black line at 55 Nm labeled 'Límite Servicio S6 Limit for Service S6' and a thick black line at 38 Nm labeled 'Límite Servicio S1 Limit for Service S1'. Two load curves are shown: 'Carga / Load Nm 1' in blue and 'Carga / Load Nm 2' in red. Both curves start at 38 Nm at 0 rpm, remain constant until 4000 rpm, and then decrease. The blue curve ends at approximately 28 Nm at 7500 rpm, while the red curve ends at approximately 21 Nm at 7500 rpm.

| rpm  | Límite Servicio S6 (Nm) | Límite Servicio S1 (Nm) | Carga / Load Nm 1 (Nm) | Carga / Load Nm 2 (Nm) |
|------|-------------------------|-------------------------|------------------------|------------------------|
| 0    | 55                      | 38                      | 38                     | 38                     |
| 1000 | 55                      | 38                      | 38                     | 38                     |
| 2000 | 55                      | 38                      | 38                     | 38                     |
| 3000 | 55                      | 38                      | 38                     | 38                     |
| 4000 | 55                      | 38                      | 38                     | 38                     |
| 5000 | 45                      | 32                      | 32                     | 30                     |
| 6000 | 38                      | 26                      | 26                     | 24                     |
| 7000 | 33                      | 22                      | 22                     | 21                     |
| 7500 | 28                      | 21                      | 28                     | 21                     |

[illegible]

**Curva de Potencia / Power Diagram**

The diagram illustrates the power limits and load curves for two services, S6 and S1, plotted against rotational speed (rpm). The Y-axis represents Potencia / Power (KW) from 0.0 to 30.0, and the X-axis represents rpm from 0 to 8000.

**Legend:**

- Limite Servicio S6 Limit for Service S6 (Thin black line)
- Limite Servicio S1 Limit for Service S1 (Thick black line)
- Carga / Load KW 1 (Blue line)
- Carga / Load KW 2 (Red line)

**Data Points for Limits:**

| rpm  | Limite Servicio S6 (KW) | Limite Servicio S1 (KW) |
|------|-------------------------|-------------------------|
| 0    | 0.0                     | 0.0                     |
| 4100 | 24.0                    | 16.5                    |
| 7500 | 24.0                    | 16.5                    |

**Load Curves:**

- Carga / Load KW 1 (Blue):** Starts at (0, 0) and increases linearly to approximately (4100, 16.5), then remains constant.
- Carga / Load KW 2 (Red):** Starts at (0, 0) and increases linearly to approximately (4100, 16.5), then remains constant.

