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|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|  | <p style="text-align: center;"><b>MOTOR MAC QI 200 X</b></p> <p style="text-align: center;"><i>Parámetros motor / Motor parameters</i></p> | <p>Fecha-date      30/04/2015</p> |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|

PLACA DE CARACTERÍSTICAS / NAMEPLATE DATA

|             | QI 200 X<br>bob. A61 | QI 200 X<br>bob. B61 | QI 200 X<br>bob. C61 | QI 200 X<br>bob. D61 | QI 200 X<br>bob. E61 | QI 200 X<br>bob. F61 | QI 200 X<br>bob. G61 | QI 200 X<br>bob. H61 | QI 200 X<br>bob. E62 | QI 200 X<br>bob. F62 | QI 200 X<br>bob. G62 |
|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Nm          | 1600                 | 1600                 | 1600                 | 1600                 | 1600                 | 1600                 | 1600                 | 1600                 | 1600                 | 1525                 | 1450                 |
| rpm         | 379                  | 460                  | 539                  | 639                  | 799                  | 899                  | 1039                 | 1200                 | 1399                 | 1580                 | 1821                 |
| KW          | 63.5                 | 77.1                 | 90.3                 | 107.1                | 133.9                | 150.6                | 174.1                | 201.1                | 234.4                | 252.3                | 276.5                |
| V           | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  | 400                  |
| A           | 125.5                | 150.3                | 173.1                | 204.4                | 249.6                | 280.6                | 320.6                | 373.7                | 431.3                | 467.4                | 513.8                |
| Hz          | 20.0                 | 24.0                 | 28.0                 | 33.0                 | 41.0                 | 46.0                 | 53.0                 | 61.0                 | 71.0                 | 80.0                 | 92.0                 |
| Cos fi      | 0.82                 | 0.82                 | 0.82                 | 0.82                 | 0.83                 | 0.82                 | 0.83                 | 0.81                 | 0.82                 | 0.81                 | 0.80                 |
| Rend / eff. | 0.89                 | 0.91                 | 0.92                 | 0.93                 | 0.94                 | 0.95                 | 0.95                 | 0.96                 | 0.96                 | 0.96                 | 0.97                 |
| J (Kg m2)   | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                | 1.676                |

ESQUEMA EQUIVALENTE POR FASE EN ESTRELLA / PHASE STAR EQUIVALENT SCHEMA

|             | QI 200 X<br>bob. A61 | QI 200 X<br>bob. B61 | QI 200 X<br>bob. C61 | QI 200 X<br>bob. D61 | QI 200 X<br>bob. E61 | QI 200 X<br>bob. F61 | QI 200 X<br>bob. G61 | QI 200 X<br>bob. H61 | QI 200 X<br>bob. E62 | QI 200 X<br>bob. F62 | QI 200 X<br>bob. G62 |
|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Rs (mOhm)   | 80.30                | 55.29                | 41.25                | 29.77                | 19.90                | 15.87                | 12.01                | 8.92                 | 6.63                 | 5.29                 | 4.00                 |
| Rr (mOhm)   | 97.69                | 67.84                | 50.95                | 36.48                | 24.42                | 19.30                | 14.77                | 10.85                | 8.14                 | 6.43                 | 4.92                 |
| Rfe (Ohm)   | 287.86               | 235.14               | 201.76               | 165.87               | 132.29               | 114.31               | 97.35                | 79.19                | 65.96                | 56.39                | 47.15                |
| Ls (mH)     | 1.65                 | 1.14                 | 0.86                 | 0.61                 | 0.41                 | 0.33                 | 0.25                 | 0.18                 | 0.14                 | 0.11                 | 0.08                 |
| Lr (mH)     | 1.43                 | 0.99                 | 0.74                 | 0.53                 | 0.35                 | 0.28                 | 0.21                 | 0.16                 | 0.12                 | 0.09                 | 0.07                 |
| Lm (mH)     | 30.36                | 20.74                | 15.84                | 11.16                | 7.70                 | 6.01                 | 4.67                 | 3.31                 | 2.49                 | 1.96                 | 1.52                 |
| Ts (s)      | 0.40                 | 0.40                 | 0.40                 | 0.40                 | 0.41                 | 0.40                 | 0.41                 | 0.39                 | 0.40                 | 0.39                 | 0.40                 |
| Tr (s)      | 0.33                 | 0.32                 | 0.33                 | 0.32                 | 0.33                 | 0.33                 | 0.33                 | 0.32                 | 0.32                 | 0.32                 | 0.32                 |
| Kt          | 98.58                | 82.15                | 71.20                | 60.25                | 49.29                | 43.81                | 38.34                | 32.86                | 49.29                | 43.81                | 38.34                |
| Im (A/fase) | 54.3                 | 66.6                 | 75.1                 | 90.8                 | 106.4                | 121.5                | 136.2                | 167.4                | 191.9                | 216.8                | 244.9                |

