

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH56B2 0,12 kW |  |
|----------------|--|
| Nr.            | Information  |
| 1              | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 56,5%<br/>75%: 57,1%<br/>50%: 54,1%</p>  |
| 2              | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>  |
| 3              | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4              | <p><b>Product's model identifier;</b></p> <p>TH56B2</p>  |
| 5              | <p><b>Number of poles of the motor;</b></p> <p>2</p>   |
| 6              | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,12 kW</p>   |
| 7              | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8              | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9              | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2640 - 3310 rpm</p>  |
| 10             | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11             | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12             | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13             | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 14,5%; P2 (50;100) = 12,3%; P3 (25;100) = 12,6%; P4 (90;50) = 12,8%;<br/>P5 (50;50) = 8,5%; P6 (50;25) = 6,1%; P7 (25;25) = 4,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63A2 - TBH63A2 0,18 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 63,7%<br/>75%: 58,7%<br/>50%: 53,5%</p>   |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>   |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p>Product's model identifier;</p> <p>TH63A2 - TBH63A2</p>   |
| 5                        | <p>Number of poles of the motor;</p> <p>2</p>  |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,18 kW</p>  |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>2830 - 3470 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 15,2%; P2 (50;100) = 12,2%; P3 (25;100) = 11,4%; P4 (90;50) = 12,2%;<br/>P5 (50;50) = 8,6%; P6 (50;25) = 7,8%; P7 (25;25) = 6,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63B2 - TBH63B2 0,25 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 70,9%<br/>75%: 69,0%<br/>50%: 63,6%</p>   |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>   |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH63B2 - TBH63B2</p>   |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>2</p>  |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,25 kW</p>  |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>   |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2820 - 3460 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>  |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 11,7%; P2 (50;100) = 9,9%; P3 (25;100) = 9,8%; P4 (90;50) = 8,8%;<br/>P5 (50;50) = 6,0%; P6 (50;25) = 5,8%; P7 (25;25) = 4,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63C2 - TBH63C2 0,37 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 70,1%<br/>75%: 69,6%<br/>50%: 65,8%</p>   |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>   |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH63C2 - TBH63C2</p>   |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>2</p>  |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,37 kW</p>  |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>   |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2790 - 3440 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>  |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 12,5%; P2 (50;100) = 10,7%; P3 (25;100) = 11,8%; P4 (90;50) = 8,2%;<br/>P5 (50;50) = 6,0%; P6 (50;25) = 5,6%; P7 (25;25) = 4,1%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71A2 - TBH71A2 0,37 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 70,1%<br/>75%: 68,7%<br/>50%: 62,1%</p>   |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>   |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p>Product's model identifier;</p> <p>TH71A2 - TBH71A2</p>   |
| 5                        | <p>Number of poles of the motor;</p> <p>2</p>  |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,37 kW</p>  |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>2820 - 3450 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 14,0%; P2 (50;100) = 10,8%; P3 (25;100) = 9,7%; P4 (90;50) = 9,9%;<br/>P5 (50;50) = 7,1%; P6 (50;25) = 6,4%; P7 (25;25) = 4,8%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71B2 - TBH71B2 0,55 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 74,1%<br/>75%: 72,3%<br/>50%: 65,8%</p>   |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>   |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH71B2 - TBH71B2</p>   |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>2</p>  |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,55 kW</p>  |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>   |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2830 - 3470 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>  |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 10,1%; P2 (50;100) = 8,2%; P3 (25;100) = 7,8%; P4 (90;50) = 7,3%;<br/>P5 (50;50) = 5,0%; P6 (50;25) = 5,0%; P7 (25;25) = 3,6%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP80A2 - TBP80A2 0,75 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 81,8%<br/>75%: 82,3%<br/>50%: 80,9%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TP80A2 - TBP80A2</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>2</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,75 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2860 - 3490 rpm</p>  |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 7,9%; P2 (50;100) = 6,2%; P3 (25;100) = 6,8%; P4 (90;50) = 4,1%;<br/>P5 (50;50) = 2,7%; P6 (50;25) = 1,8%; P7 (25;25) = 1,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| <b>TP80B2 - TBP80B2 1,1 kW</b> |  |
|--------------------------------|--|
| <b>1</b>                       | <b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b><br>100%: 84,0%<br>75%: 85,0%<br>50%: 84,3%   |
| <b>2</b>                       | <b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b><br>IE3   |
| <b>3</b>                       | <b>Manufacturer's name or trade mark, commercial registration number and address</b><br>MOTOVARIO S.p.A.<br>EORI code n° IT02569681204<br>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY   |
| <b>4</b>                       | <b>Product's model identifier;</b><br>TP80B2 - TBP80B2   |
| <b>5</b>                       | <b>Number of poles of the motor;</b><br>2  |
| <b>6</b>                       | <b>The rated power output(s) PN or range of rated power output (kW);</b><br>1,1 kW   |
| <b>7</b>                       | <b>The rated input frequency(s) of the motor (Hz)</b><br>50 Hz - 60 Hz   |
| <b>8</b>                       | <b>The rated voltage(s) or range of rated voltage (V)</b><br>230/400V - 265/460V   |
| <b>9</b>                       | <b>The rated speed(s) or range of rated speed (rpm)</b><br>2860 - 3490 rpm   |
| <b>10</b>                      | <b>Whether single-phase or three-phase</b><br>Three-phase  |
| <b>11</b>                      | <b>Information on the range of operating conditions for which the motor is designed:</b><br><b>(a) altitudes above sea-level;</b><br>0 - 1000 m a.s.l.<br><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br>-15°C / +40°C<br><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br>Not applicable<br><b>(d) maximum operating temperature;</b><br>155°C on windings (Class F)<br><b>(e) potentially explosive atmospheres;</b><br>Installation not possible in potentially explosive atmospheres  |
| <b>12</b>                      | <b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b><br>The motor is in the scope of Regulation   |
| <b>13</b>                      | <b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b><br><b>Point numbering is according to IEC 60034-2-3 standard</b><br>P1 (90;100) = 6,5%; P2 (50;100) = 5,2%; P3 (25;100) = 4,9%; P4 (90;50) = 3,3%;<br>P5 (50;50) = 2,3%; P6 (50;25) = 1,6%; P7 (25;25) = 1,1% |



## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP90S2 - TBP90S2 1,5 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 84,8%<br/>75%: 84,2%<br/>50%: 82,0%</p>  |
| 2                       | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                       | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                       | <p><b>Product's model identifier;</b></p> <p>TP90S2 - TBP90S2</p>  |
| 5                       | <p><b>Number of poles of the motor;</b></p> <p>2</p>   |
| 6                       | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>1,5 kW</p>  |
| 7                       | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                       | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                       | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2860 - 3490 rpm</p>  |
| 10                      | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                      | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                      | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 6,6%; P2 (50;100) = 5,4%; P3 (25;100) = 4,8%; P4 (90;50) = 3,6%;<br/>P5 (50;50) = 2,5%; P6 (50;25) = 1,9%; P7 (25;25) = 1,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP90L2 - TBP90L2 2,2 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 86,2%<br/>75%: 85,9%<br/>50%: 83,6%</p>  |
| 2                       | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                       | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                       | <p><b>Product's model identifier;</b></p> <p>TP90L2 - TBP90L2</p>  |
| 5                       | <p><b>Number of poles of the motor;</b></p> <p>2</p>   |
| 6                       | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>2,2 kW</p>  |
| 7                       | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                       | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                       | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2880 - 3510 rpm</p>  |
| 10                      | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                      | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                      | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 5,6%; P2 (50;100) = 4,5%; P3 (25;100) = 3,9%; P4 (90;50) = 3,0%;<br/>P5 (50;50) = 2,3%; P6 (50;25) = 2,2%; P7 (25;25) = 1,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP100L2 - TBP100L2 3 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 87,2%<br/>75%: 86,7%<br/>50%: 83,9%</p>  |
| 2                       | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                       | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                       | <p><b>Product's model identifier;</b></p> <p>TP100L2 - TBP100L2</p>  |
| 5                       | <p><b>Number of poles of the motor;</b></p> <p>2</p>   |
| 6                       | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>3 kW</p>  |
| 7                       | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                       | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                       | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>2900 - 3520 rpm</p>  |
| 10                      | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                      | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                      | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 6,0%; P2 (50;100) = 2,8%; P3 (25;100) = 3,4%; P4 (90;50) = 2,8%;<br/>P5 (50;50) = 2,0%; P6 (50;25) = 2,2%; P7 (25;25) = 0,9%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP112M2 - TBP112M2 4 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 88,8%<br/>75%: 88,7%<br/>50%: 86,8%</p>   |
| 2                       | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                       | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                       | <p>Product's model identifier;</p> <p>TP112M2 - TBP112M2</p>   |
| 5                       | <p>Number of poles of the motor;</p> <p>2</p>  |
| 6                       | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>4 kW</p>   |
| 7                       | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                       | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                       | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>2930 - 3550 rpm</p>   |
| 10                      | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                      | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                      | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,9%; P2 (50;100) = 3,9%; P3 (25;100) = 2,9%; P4 (90;50) = 3,4%;<br/>P5 (50;50) = 2,0%; P6 (50;25) = 1,6%; P7 (25;25) = 1,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132S2 - TBP132S2 5,5 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 90,2%<br/>75%: 90,0%<br/>50%: 88,0%</p>   |
| 2                         | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                         | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                         | <p>Product's model identifier;</p> <p>TP132S2 - TBP132S2</p>   |
| 5                         | <p>Number of poles of the motor;</p> <p>2</p>  |
| 6                         | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>5,5 kW</p>   |
| 7                         | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                         | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                         | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>2950 - 3550 rpm</p>   |
| 10                        | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                        | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                        | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 6,3%; P2 (50;100) = 3,9%; P3 (25;100) = 2,8%; P4 (90;50) = 4,5%;<br/>P5 (50;50) = 2,2%; P6 (50;25) = 1,8%; P7 (25;25) = 1,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132M2 - TBP132M2 7,5 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 91,0%<br/>75%: 90,9%<br/>50%: 89,1%</p>   |
| 2                         | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                         | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                         | <p>Product's model identifier;</p> <p>TP132M2 - TBP132M2</p>   |
| 5                         | <p>Number of poles of the motor;</p> <p>2</p>  |
| 6                         | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>7,5 kW</p>   |
| 7                         | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                         | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                         | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>2950 - 3550 rpm</p>   |
| 10                        | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                        | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                        | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,4%; P2 (50;100) = 3,6%; P3 (25;100) = 2,5%; P4 (90;50) = 3,1%;<br/>P5 (50;50) = 2,0%; P6 (50;25) = 1,3%; P7 (25;25) = 1,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63A4 - TBH63A4 0,12 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 62,6%<br/>75%: 62,3%<br/>50%: 57,3%</p>  |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>  |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p>Product's model identifier;</p> <p>TH63A4 - TBH63A4</p>  |
| 5                        | <p>Number of poles of the motor;</p> <p>4</p>   |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,12 kW</p>   |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>  |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1350 - 1680 rpm</p>  |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>   |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 18,8%; P2 (50;100) = 17,6%; P3 (25;100) = 20,1%; P4 (90;50) = 12,4%;<br/>P5 (50;50) = 10,0%; P6 (50;25) = 8,8%; P7 (25;25) = 7,1%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63B4 - TBH63B4 0,18 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 66,1%<br/>75%: 64,3%<br/>50%: 58,6%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH63B4 - TBH63B4</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,18 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1360 - 1690 rpm</p>  |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 16,0%; P2 (50;100) = 15,1%; P3 (25;100) = 16,5%; P4 (90;50) = 10,3%;<br/>P5 (50;50) = 8,9%; P6 (50;25) = 7,6%; P7 (25;25) = 6,2%</p> |



## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63D4 - TBH63D4 0,25 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 68,5%<br/>75%: 66,7%<br/>50%: 59,8%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH63D4 - TBH63D4</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,25 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1350 - 1680 rpm</p>  |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 17,3%; P2 (50;100) = 16,1%; P3 (25;100) = 17,9%; P4 (90;50) = 11,0%;<br/>P5 (50;50) = 9,3%; P6 (50;25) = 8,2%; P7 (25;25) = 6,6%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71A4 - TBH71A4 0,25 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 68,5%<br/>75%: 67,5%<br/>50%: 61,7%</p>   |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>   |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p>Product's model identifier;</p> <p>TH71A4 - TBH71A4</p>   |
| 5                        | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,25 kW</p>  |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1380 - 1710 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 15,9%; P2 (50;100) = 14,3%; P3 (25;100) = 16,8%; P4 (90;50) = 10,1%;<br/>P5 (50;50) = 7,7%; P6 (50;25) = 6,9%; P7 (25;25) = 5,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71B4 - TBH71B4 0,37 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 72,7%<br/>75%: 72,4%<br/>50%: 69,1%</p>   |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>   |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH71B4 - TBH71B4</p>   |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>4</p>  |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,37 kW</p>  |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>   |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1400 - 1710 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>  |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 13,1%; P2 (50;100) = 11,5%; P3 (25;100) = 12,6%; P4 (90;50) = 7,7%;<br/>P5 (50;50) = 5,9%; P6 (50;25) = 4,9%; P7 (25;25) = 4,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71C4 - TBH71C4 0,55 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 77,1%<br/>75%: 76,7%<br/>50%: 73,1%</p>   |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>   |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p>Product's model identifier;</p> <p>TH71C4 - TBH71C4</p>   |
| 5                        | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,55 kW</p>  |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1400 - 1720 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 11,2%; P2 (50;100) = 9,8%; P3 (25;100) = 10,1%; P4 (90;50) = 6,5%;<br/>P5 (50;50) = 5,1%; P6 (50;25) = 4,3%; P7 (25;25) = 3,5%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH80A4 - TBH80A4 0,55 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 77,3%<br/>75%: 77,3%<br/>50%: 73,5%</p>   |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>   |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p>Product's model identifier;</p> <p>TH80A4 - TBH80A4</p>   |
| 5                        | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,55 kW</p>  |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1420 - 1730 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 9,8%; P2 (50;100) = 8,8%; P3 (25;100) = 8,1%; P4 (90;50) = 5,8%;<br/>P5 (50;50) = 4,6%; P6 (50;25) = 4,6%; P7 (25;25) = 3,4%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP80B4 - TBP80B4 0,75 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 82,9%<br/>75%: 82,5%<br/>50%: 80,0%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TP80B4 - TBP80B4</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,75 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1440 - 1750 rpm</p>  |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 7,6%; P2 (50;100) = 6,4%; P3 (25;100) = 6,2%; P4 (90;50) = 5,0%;<br/>P5 (50;50) = 3,3%; P6 (50;25) = 2,4%; P7 (25;25) = 1,9%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP90S4 - TBP90S4 1,1 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 84,5%<br/>75%: 84,6%<br/>50%: 82,6%</p>  |
| 2                       | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                       | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                       | <p><b>Product's model identifier;</b></p> <p>TP90S4 - TBP90S4</p>  |
| 5                       | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                       | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>1,1 kW</p>  |
| 7                       | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                       | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                       | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1430 - 1750 rpm</p>  |
| 10                      | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                      | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                      | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 6,2%; P2 (50;100) = 5,4%; P3 (25;100) = 5,3%; P4 (90;50) = 3,2%;<br/>P5 (50;50) = 2,4%; P6 (50;25) = 2,0%; P7 (25;25) = 1,4%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP90L4 - TBP90L4 1,5 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 85,6%<br/>75%: 85,6%<br/>50%: 83,0%</p>  |
| 2                       | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                       | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                       | <p><b>Product's model identifier;</b></p> <p>TP90L4 - TBP90L4</p>  |
| 5                       | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                       | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>1,5 kW</p>  |
| 7                       | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                       | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                       | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1430 - 1750 rpm</p>  |
| 10                      | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                      | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                      | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 6,3%; P2 (50;100) = 5,3%; P3 (25;100) = 6,1%; P4 (90;50) = 3,1%;<br/>P5 (50;50) = 2,2%; P6 (50;25) = 2,3%; P7 (25;25) = 1,3%</p> |



## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP100LA4 - TBP100LA4 2,2 kW |  |
|-----------------------------|--|
| Nr.                         | Information  |
| 1                           | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 86,9%<br/>75%: 86,9%<br/>50%: 85,2%</p>   |
| 2                           | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                           | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                           | <p>Product's model identifier;</p> <p>TP100LA4 - TBP100LA4</p>   |
| 5                           | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                           | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>2,2 kW</p>   |
| 7                           | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                           | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                           | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1440 - 1755 rpm</p>   |
| 10                          | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                          | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                          | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                          | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 6,5%; P2 (50;100) = 4,7%; P3 (25;100) = 5,1%; P4 (90;50) = 3,3%;<br/>P5 (50;50) = 2,5%; P6 (50;25) = 1,7%; P7 (25;25) = 1,4%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP112MR4 - TBP112MR4 2,2 kW |  |
|-----------------------------|--|
| Nr.                         | Information  |
| 1                           | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 88,9%<br/>75%: 88,4%<br/>50%: 86,2%</p>   |
| 2                           | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                           | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                           | <p>Product's model identifier;</p> <p>TP112MR4 - TBP112MR4</p>   |
| 5                           | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                           | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>2,2 kW</p>   |
| 7                           | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                           | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                           | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1460 - 1770 rpm</p>   |
| 10                          | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                          | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                          | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                          | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 6,6%; P2 (50;100) = 5,5%; P3 (25;100) = 4,8%; P4 (90;50) = 3,7%;<br/>P5 (50;50) = 2,4%; P6 (50;25) = 1,8%; P7 (25;25) = 1,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP112MS4 - TBP112MS4 3 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 87,8%<br/>75%: 88,0%<br/>50%: 86,7%</p>  |
| 2                         | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                         | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                         | <p><b>Product's model identifier;</b></p> <p>TP112MS4 - TBP112MS4</p>  |
| 5                         | <p><b>Number of poles of the motor;</b></p> <p>4</p>   |
| 6                         | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>3 kW</p>  |
| 7                         | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                         | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                         | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>1450 - 1760 rpm</p>  |
| 10                        | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                        | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                        | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 6,0%; P2 (50;100) = 4,7%; P3 (25;100) = 4,3%; P4 (90;50) = 2,9%;<br/>P5 (50;50) = 2,2%; P6 (50;25) = 1,6%; P7 (25;25) = 1,1%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP112M4 - TBP112M4 4 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 88,7%<br/>75%: 88,7%<br/>50%: 87,2%</p>   |
| 2                       | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                       | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                       | <p>Product's model identifier;</p> <p>TP112M4 - TBP112M4</p>   |
| 5                       | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                       | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>4 kW</p>   |
| 7                       | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                       | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                       | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1450 - 1760 rpm</p>   |
| 10                      | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                      | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                      | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,9%; P2 (50;100) = 4,8%; P3 (25;100) = 4,3%; P4 (90;50) = 3,2%;<br/>P5 (50;50) = 2,3%; P6 (50;25) = 1,6%; P7 (25;25) = 1,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132MS4 - TBP132MS4 5,5 kW |  |
|-----------------------------|--|
| Nr.                         | Information  |
| 1                           | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 89,6%<br/>75%: 89,6%<br/>50%: 87,9%</p>   |
| 2                           | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                           | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                           | <p>Product's model identifier;</p> <p>TP132MS4 - TBP132MS4</p>   |
| 5                           | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                           | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>5,5 kW</p>   |
| 7                           | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                           | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                           | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1470 - 1770 rpm</p>   |
| 10                          | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                          | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                          | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                          | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,0%; P2 (50;100) = 3,7%; P3 (25;100) = 3,1%; P4 (90;50) = 3,1%;<br/>P5 (50;50) = 1,9%; P6 (50;25) = 1,5%; P7 (25;25) = 1,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132M4 - TBP132M4 7,5 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 90,4%<br/>75%: 90,6%<br/>50%: 89,5%</p>   |
| 2                         | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                         | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                         | <p>Product's model identifier;</p> <p>TP132M4 - TBP132M4</p>   |
| 5                         | <p>Number of poles of the motor;</p> <p>4</p>  |
| 6                         | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>7,5 kW</p>   |
| 7                         | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                         | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                         | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>1460 - 1760 rpm</p>   |
| 10                        | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                        | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                        | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,2%; P2 (50;100) = 4,2%; P3 (25;100) = 3,6%; P4 (90;50) = 2,6%;<br/>P5 (50;50) = 1,8%; P6 (50;25) = 1,4%; P7 (25;25) = 1,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH63B6 - TBH63B6 0,12 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 50,6%<br/>75%: 45,2%<br/>50%: 37,9%</p>  |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>  |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p>Product's model identifier;</p> <p>TH63B6 - TBH63B6</p>  |
| 5                        | <p>Number of poles of the motor;</p> <p>6</p>   |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,12 kW</p>   |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>  |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>870 - 1100 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>   |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 37,6%; P2 (50;100) = 33,7%; P3 (25;100) = 34,6%; P4 (90;50) = 30,0%;<br/>P5 (50;50) = 23,4%; P6 (50;25) = 23,1%; P7 (25;25) = 15,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71A6 - TBH71A6 0,18 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 56,8%<br/>75%: 55,8%<br/>50%: 49,2%</p>  |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>  |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p>Product's model identifier;</p> <p>TH71A6 - TBH71A6</p>  |
| 5                        | <p>Number of poles of the motor;</p> <p>6</p>   |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,18 kW</p>   |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>  |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>900 - 1130 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>   |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 21,0%; P2 (50;100) = 19,7%; P3 (25;100) = 26,5%; P4 (90;50) = 13,1%;<br/>P5 (50;50) = 10,5%; P6 (50;25) = 9,2%; P7 (25;25) = 6,7%</p> |



## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71B6 - TBH71B6 0,25 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 64,1%<br/>75%: 64,6%<br/>50%: 59,7%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH71B6 - TBH71B6</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>6</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,25 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>910 - 1130 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 19,9%; P2 (50;100) = 18,1%; P3 (25;100) = 22,9%; P4 (90;50) = 11,7%;<br/>P5 (50;50) = 9,4%; P6 (50;25) = 8,6%; P7 (25;25) = 6,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH71C6 - TBH71C6 0,37 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 67,8%<br/>75%: 70,1%<br/>50%: 66,9%</p>   |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>   |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH71C6 - TBH71C6</p>   |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>6</p>  |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,37 kW</p>  |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>   |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>   |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>900 - 1120 rpm</p>  |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>  |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.</p> <p><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C</p> <p><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable</p> <p><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)</p> <p><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>   |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 17,4%; P2 (50;100) = 17,4%; P3 (25;100) = 21,1%; P4 (90;50) = 9,2%;<br/>P5 (50;50) = 7,7%; P6 (50;25) = 6,2%; P7 (25;25) = 4,9%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH80A6 - TBH80A6 0,37 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 67,6%<br/>75%: 64,9%<br/>50%: 58,6%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE2</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TH80A6 - TBH80A6</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>6</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,37 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>940 - 1130 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 15,0%; P2 (50;100) = 12,9%; P3 (25;100) = 13,6%; P4 (90;50) = 10,2%;<br/>P5 (50;50) = 8,4%; P6 (50;25) = 6,7%; P7 (25;25) = 6,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TH80B6 - TBH80B6 0,55 kW |   |
|--------------------------|---|
| Nr.                      | Information   |
| 1                        | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 73,1%<br/>75%: 71,7%<br/>50%: 65,6%</p>  |
| 2                        | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE2</p>  |
| 3                        | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p>Product's model identifier;</p> <p>TH80B6 - TBH80B6</p>  |
| 5                        | <p>Number of poles of the motor;</p> <p>6</p>   |
| 6                        | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>0,55 kW</p>   |
| 7                        | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>  |
| 9                        | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>940 - 1150 rpm</p>   |
| 10                       | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>   |
| 11                       | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>   |
| 12                       | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 11,5%; P2 (50;100) = 10,5%; P3 (25;100) = 11,4%; P4 (90;50) = 7,3%;<br/>P5 (50;50) = 6,1%; P6 (50;25) = 5,5%; P7 (25;25) = 4,4%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP90S6 - TBP90S6 0,75 kW |  |
|--------------------------|--|
| Nr.                      | Information  |
| 1                        | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 78,9%<br/>75%: 79,0%<br/>50%: 74,9%</p>  |
| 2                        | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                        | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                        | <p><b>Product's model identifier;</b></p> <p>TP90S6 - TBP90S6</p>  |
| 5                        | <p><b>Number of poles of the motor;</b></p> <p>6</p>   |
| 6                        | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>0,75 kW</p>   |
| 7                        | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                        | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                        | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>940 - 1150 rpm</p>   |
| 10                       | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                       | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                       | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                       | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 9,2%; P2 (50;100) = 8,2%; P3 (25;100) = 8,8%; P4 (90;50) = 5,3%;<br/>P5 (50;50) = 4,0%; P6 (50;25) = 3,3%; P7 (25;25) = 2,6%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP100LR6 - TBP100LR6 1,1 kW |  |
|-----------------------------|--|
| Nr.                         | Information  |
| 1                           | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 82,0%<br/>75%: 82,2%<br/>50%: 80,8%</p>   |
| 2                           | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                           | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                           | <p>Product's model identifier;</p> <p>TP100LR6 - TBP100LR6</p>   |
| 5                           | <p>Number of poles of the motor;</p> <p>6</p>  |
| 6                           | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>1,1 kW</p>   |
| 7                           | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                           | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                           | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>950 - 1160 rpm</p>  |
| 10                          | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                          | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                          | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                          | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 7,1%; P2 (50;100) = 6,6%; P3 (25;100) = 6,9%; P4 (90;50) = 3,7%;<br/>P5 (50;50) = 3,0%; P6 (50;25) = 1,9%; P7 (25;25) = 2,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP100L6 - TBP100L6 1,5 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</b></p> <p>100%: 82,5%<br/>75%: 83,1%<br/>50%: 81,4%</p>  |
| 2                         | <p><b>Efficiency level: 'IE2' 'IE3' or 'IE4'</b></p> <p>IE3</p>  |
| 3                         | <p><b>Manufacturer's name or trade mark, commercial registration number and address</b></p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>  |
| 4                         | <p><b>Product's model identifier;</b></p> <p>TP100L6 - TBP100L6</p>  |
| 5                         | <p><b>Number of poles of the motor;</b></p> <p>6</p>   |
| 6                         | <p><b>The rated power output(s) PN or range of rated power output (kW);</b></p> <p>1,5 kW</p>  |
| 7                         | <p><b>The rated input frequency(s) of the motor (Hz)</b></p> <p>50 Hz - 60 Hz</p>  |
| 8                         | <p><b>The rated voltage(s) or range of rated voltage (V)</b></p> <p>230/400V - 265/460V</p>  |
| 9                         | <p><b>The rated speed(s) or range of rated speed (rpm)</b></p> <p>940 - 1160 rpm</p>   |
| 10                        | <p><b>Whether single-phase or three-phase</b></p> <p>Three-phase</p>   |
| 11                        | <p><b>Information on the range of operating conditions for which the motor is designed:</b></p> <p><b>(a) altitudes above sea-level;</b><br/>0 - 1000 m a.s.l.<br/><b>(b) minimum and maximum ambient air temperatures including for motors with air cooling;</b><br/>-15°C / +40°C<br/><b>(c) water coolant temperature at the inlet to the product, where applicable;</b><br/>Not applicable<br/><b>(d) maximum operating temperature;</b><br/>155°C on windings (Class F)<br/><b>(e) potentially explosive atmospheres;</b><br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p><b>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</b></p> <p>The motor is in the scope of Regulation</p>  |
| 13                        | <p><b>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</b></p> <p><b>Point numbering is according to IEC 60034-2-3 standard</b></p> <p>P1 (90;100) = 8,0%; P2 (50;100) = 7,0%; P3 (25;100) = 7,7%; P4 (90;50) = 4,2%;<br/>P5 (50;50) = 3,4%; P6 (50;25) = 2,3%; P7 (25;25) = 2,0%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP112M6 - TBP112M6 2,2 kW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 84,3%<br/>75%: 84,5%<br/>50%: 81,8%</p>   |
| 2                         | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                         | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                         | <p>Product's model identifier;</p> <p>TP112M6 - TBP112M6</p>   |
| 5                         | <p>Number of poles of the motor;</p> <p>6</p>  |
| 6                         | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>2,2 kW</p>   |
| 7                         | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                         | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                         | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>960 - 1170 rpm</p>  |
| 10                        | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                        | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                        | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 8,0%; P2 (50;100) = 5,7%; P3 (25;100) = 6,2%; P4 (90;50) = 4,2%;<br/>P5 (50;50) = 3,1%; P6 (50;25) = 2,4%; P7 (25;25) = 1,9%</p> |



## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132S6 - TBP132S6 3 kW |  |
|-------------------------|--|
| Nr.                     | Information  |
| 1                       | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 86,2%<br/>75%: 87,2%<br/>50%: 86,5%</p>   |
| 2                       | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                       | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                       | <p>Product's model identifier;</p> <p>TP132S6 - TBP132S6</p>   |
| 5                       | <p>Number of poles of the motor;</p> <p>6</p>  |
| 6                       | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>3 kW</p>   |
| 7                       | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                       | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                       | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>970 - 1170 rpm</p>  |
| 10                      | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                      | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                      | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                      | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 6,8%; P2 (50;100) = 5,7%; P3 (25;100) = 5,8%; P4 (90;50) = 2,9%;<br/>P5 (50;50) = 2,4%; P6 (50;25) = 1,4%; P7 (25;25) = 1,2%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132MA6 - TBP132MA6 4 KW |  |
|---------------------------|--|
| Nr.                       | Information  |
| 1                         | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 87,2%<br/>75%: 88,0%<br/>50%: 87,7%</p>   |
| 2                         | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                         | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                         | <p>Product's model identifier;</p> <p>TP132MA6 - TBP132MA6</p>   |
| 5                         | <p>Number of poles of the motor;</p> <p>6</p>  |
| 6                         | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>4 kW</p>   |
| 7                         | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                         | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                         | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>970 - 1175 rpm</p>  |
| 10                        | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                        | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                        | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                        | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 6,1%; P2 (50;100) = 5,2%; P3 (25;100) = 4,4%; P4 (90;50) = 2,9%;<br/>P5 (50;50) = 2,3%; P6 (50;25) = 2,1%; P7 (25;25) = 1,3%</p> |

## Technical Datasheet according to EU Ecodesign Regulation nr.1781/2019

| TP132MB6 - TBP132MB6 5,5 kW |  |
|-----------------------------|--|
| Nr.                         | Information  |
| 1                           | <p>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (UN), determined based on the 50 Hz operation and 25 °C ambient reference temperature, rounded to one decimal place</p> <p>100%: 88,3%<br/>75%: 88,6%<br/>50%: 87,7%</p>   |
| 2                           | <p>Efficiency level: 'IE2' 'IE3' or 'IE4'</p> <p>IE3</p>   |
| 3                           | <p>Manufacturer's name or trade mark, commercial registration number and address</p> <p>MOTOVARIO S.p.A.<br/>EORI code n° IT02569681204<br/>Via Quattro Passi 1/3 - 41030 Formigine (Modena) - ITALY</p>   |
| 4                           | <p>Product's model identifier;</p> <p>TP132MB6 - TBP132MB6</p>   |
| 5                           | <p>Number of poles of the motor;</p> <p>6</p>  |
| 6                           | <p>The rated power output(s) PN or range of rated power output (kW);</p> <p>5,5 kW</p>   |
| 7                           | <p>The rated input frequency(s) of the motor (Hz)</p> <p>50 Hz - 60 Hz</p>   |
| 8                           | <p>The rated voltage(s) or range of rated voltage (V)</p> <p>230/400V - 265/460V</p>   |
| 9                           | <p>The rated speed(s) or range of rated speed (rpm)</p> <p>970 - 1175 rpm</p>  |
| 10                          | <p>Whether single-phase or three-phase</p> <p>Three-phase</p>  |
| 11                          | <p>Information on the range of operating conditions for which the motor is designed:</p> <p>(a) altitudes above sea-level;<br/>0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling;<br/>-15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable;<br/>Not applicable</p> <p>(d) maximum operating temperature;<br/>155°C on windings (Class F)</p> <p>(e) potentially explosive atmospheres;<br/>Installation not possible in potentially explosive atmospheres</p>  |
| 12                          | <p>If the motor is considered exempt from efficiency requirement in accordance with Article 2(2) of this Regulation, the specific reason why it is considered exempt.</p> <p>The motor is in the scope of Regulation</p>   |
| 13                          | <p>The power losses expressed in percentage (%) of the rated output power at the following different operating points for speed versus torque: (25;25) (25;100) (50;25) (50;50) (50;100) (90;50) (90;100) determined based on 25 °C ambient reference temperature, rounded to one decimal place; if the motor is not suited for operation at any of the operating points for speed versus torque above, then 'N.A.' or 'Not Applicable' should be indicated for such points.</p> <p>Point numbering is according to IEC 60034-2-3 standard</p> <p>P1 (90;100) = 5,6%; P2 (50;100) = 5,1%; P3 (25;100) = 2,9%; P4 (90;50) = 3,0%;<br/>P5 (50;50) = 2,4%; P6 (50;25) = 1,6%; P7 (25;25) = 1,6%</p> |