

## HE3-HE3Z 160M4 11kW

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 91,4% at 50Hz - 92,4% at 60 Hz                      75%: 92,7% at 50Hz - 93,0% at 60 Hz                      50%: 92,4% at 50Hz - 92,3% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3-HE3Z 160M4</p>
5	<p><b>Number of poles of the motor:</b></p> <p>4</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>11 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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>1470 - 1775 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 9,4%; P2 (50;100) = 7,7%; P3 (25;100) = 6,9%; P4 (90;50) = 5,1%;                      P5 (50;50) = 3,8%; P6 (50;25) = 2,9%; P7 (25;25) = 2,4%</p>

**HE3-HE3Z 160L4 15kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 92,1% at 50Hz - 93,0% at 60 Hz 75%: 91,9% at 50Hz - 92,8% at 60 Hz 50%: 92,1% at 50Hz - 92,4% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 160L4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 15 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1465 - 1770 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 10,8%; P2 (50;100) = 8,6%; P3 (25;100) = 7,6%; P4 (90;50) = 5,5%; P5 (50;50) = 4,2%; P6 (50;25) = 3,1%; P7 (25;25) = 2,6%

**HE3-HE3Z 180M4 18,5kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 92,6% at 50Hz - 93,6% at 60 Hz 75%: 92,8% at 50Hz - 93,2% at 60 Hz 50%: 92,2% at 50Hz - 92,0% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 180M4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 18,5 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1470 - 1775 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 9,0%; P2 (50;100) = 7,4%; P3 (25;100) = 6,8%; P4 (90;50) = 5,1%; P5 (50;50) = 3,8%; P6 (50;25) = 2,9%; P7 (25;25) = 2,4%

**HE3-HE3Z 180L4 22kW**

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 93,0% at 50Hz - 93,6% at 60 Hz                      75%: 93,2% at 50Hz - 93,7% at 60 Hz                      50%: 92,8% at 50Hz - 92,6% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3-HE3Z 180L4</p>
5	<p><b>Number of poles of the motor:</b></p> <p>4</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>22 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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>1470 - 1775 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 6,7%; P3 (25;100) = 6,2%; P4 (90;50) = 4,5%;                      P5 (50;50) = 3,4%; P6 (50;25) = 2,6%; P7 (25;25) = 2,1%</p>

**HE3-HE3Z 200L4 30kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 93,6% at 50Hz - 94,1% at 60 Hz 75%: 94,0% at 50Hz - 94,2% at 60 Hz 50%: 93,4% at 50Hz - 93,4% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 200L4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 30 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1470 - 1775 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 8,2%; P2 (50;100) = 6,7%; P3 (25;100) = 6,0%; P4 (90;50) = 4,3%; P5 (50;50) = 3,3%; P6 (50;25) = 2,4%; P7 (25;25) = 2,0%

**HE3 225S4 37kW**

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 93,9% at 50Hz - 94,5% at 60 Hz                      75%: 95,0% at 50Hz - 95,1% at 60 Hz                      50%: 94,2% at 50Hz - 94,0% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3 225S4</p>
5	<p><b>Number of poles of the motor:</b></p> <p>4</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>1480 - 1780 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 6,9%; P2 (50;100) = 5,4%; P3 (25;100) = 4,8%; P4 (90;50) = 4,3%;                      P5 (50;50) = 3,0%; P6 (50;25) = 2,4%; P7 (25;25) = 1,8%</p>

## HE3 225M4 45kW

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 94,2% at 50Hz - 95,0% at 60 Hz                      75%: 94,3% at 50Hz - 95,1% at 60 Hz                      50%: 93,5% at 50Hz - 94,0% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3 225M4</p>
5	<p><b>Number of poles of the motor:</b></p> <p>4</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>45 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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>1480 - 1780 rpm</p>
10	<p><b>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>(a) altitudes above sea-level:                      0 - 1000 m a.s.l.                      (b) minimum and maximum ambient air temperatures including for motors with air cooling:                      -15°C / +40°C                      (c) water coolant temperature at the inlet to the product, where applicable:                      Not applicable                      (d) maximum operating temperature:                      Insulation class F 155°C                      (e) potentially explosive atmospheres:                      Not suitable for installation in an explosive atmosphere</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) = 6,5%; P2 (50;100) = 5,1%; P3 (25;100) = 4,4%; P4 (90;50) = 4,0%;                      P5 (50;50) = 2,8%; P6 (50;25) = 2,2%; P7 (25;25) = 1,8%</p>

**HE3 250M4 55kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 94,6% at 50Hz - 95,4% at 60 Hz 75%: 95,7% at 50Hz - 95,9% at 60 Hz 50%: 95,2% at 50Hz - 95,3% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3 250M4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 55 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1480 - 1780 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 6,1%; P2 (50;100) = 4,8%; P3 (25;100) = 4,2%; P4 (90;50) = 3,5%; P5 (50;50) = 2,5%; P6 (50;25) = 1,9%; P7 (25;25) = 1,5%



**HE4 280S4 75kW**

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 96,0% at 50Hz - 96,2% at 60 Hz                      75%: 96,2% at 50Hz - 96,0% at 60 Hz                      50%: 93,1% at 50Hz - 92,9% at 60 Hz</p>
2	<p><b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b></p> <p>IE4</p>
3	<p><b>Manufacturer's name or trade mark, commercial registration number and address:</b></p> <p>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE4 280S4</p>
5	<p><b>Number of poles of the motor:</b></p> <p>4</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>1490 - 1780 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 4,4%; P2 (50;100) = 3,4%; P3 (25;100) = 2,9%; P4 (90;50) = 2,7%;                      P5 (50;50) = 1,8%; P6 (50;25) = 1,5%; P7 (25;25) = 1,1%</p>

**HE4 280M4 90kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 96,1% at 50Hz - 96,2% at 60 Hz 75%: 96,3% at 50Hz - 96,1% at 60 Hz 50%: 93,2% at 50Hz - 93,0% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE4
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE4 280M4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 90 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1490 - 1780 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 4,3%; P2 (50;100) = 3,4%; P3 (25;100) = 3,0%; P4 (90;50) = 2,4%; P5 (50;50) = 1,7%; P6 (50;25) = 1,3%; P7 (25;25) = 1,1%

**HE4 315S4 110kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 96,3% at 50Hz - 96,2% at 60 Hz 75%: 96,5% at 50Hz - 96,3% at 60 Hz 50%: 93,5% at 50Hz - 93,2% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE4
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE4 315S4
5	<b>Number of poles of the motor:</b> 4
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 110 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 1480 - 1780 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 3,8%; P2 (50;100) = 2,9%; P3 (25;100) = 2,5%; P4 (90;50) = 2,3%; P5 (50;50) = 1,6%; P6 (50;25) = 1,3%; P7 (25;25) = 1,0%

### HE3-HE3Z 160M6 7,5kW

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 89,1% at 50Hz - 91,0% at 60 Hz                      75%: 89,3% at 50Hz - 90,5% at 60 Hz                      50%: 88,3% at 50Hz - 88,9% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3-HE3Z 160M6</p>
5	<p><b>Number of poles of the motor:</b></p> <p>6</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>7,5 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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>970 - 1175 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 13,6%; P2 (50;100) = 11,0%; P3 (25;100) = 9,7%; P4 (90;50) = 8,0%;                      P5 (50;50) = 6,1%; P6 (50;25) = 4,9%; P7 (25;25) = 4,1%</p>

**HE3-HE3Z 160L6 11kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 90,3% at 50Hz - 91,7% at 60 Hz 75%: 90,2% at 50Hz - 91,5% at 60 Hz 50%: 89,6% at 50Hz - 90,3% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 160L6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 11 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 970 - 1175 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 12,7%; P2 (50;100) = 10,3%; P3 (25;100) = 9,2%; P4 (90;50) = 7,1%; P5 (50;50) = 5,5%; P6 (50;25) = 4,2%; P7 (25;25) = 3,6%

**HE3-HE3Z 180L6 15kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 91,2% at 50Hz - 91,7% at 60 Hz 75%: 91,5% at 50Hz - 92,3% at 60 Hz 50%: 90,7% at 50Hz - 91,0% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 180L6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 15 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 980 - 1185 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 10,6%; P2 (50;100) = 8,6%; P3 (25;100) = 7,7%; P4 (90;50) = 6,1%; P5 (50;50) = 4,6%; P6 (50;25) = 3,6%; P7 (25;25) = 3,0%

**HE3-HE3Z 200LR6 18,5kW**

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 91,7% at 50Hz - 93,0% at 60 Hz                      75%: 92,4% at 50Hz - 91,9% at 60 Hz                      50%: 90,9% at 50Hz - 90,2% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3-HE3Z 200LR6</p>
5	<p><b>Number of poles of the motor:</b></p> <p>6</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>18,5 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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>985 - 1185 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 9,6%; P2 (50;100) = 7,6%; P3 (25;100) = 6,8%; P4 (90;50) = 6,1%;                      P5 (50;50) = 4,4%; P6 (50;25) = 3,6%; P7 (25;25) = 2,9%</p>

**HE3-HE3Z 200L6 22kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 92,2% at 50Hz - 93,0% at 60 Hz 75%: 92,1% at 50Hz - 92,7% at 60 Hz 50%: 90,9% at 50Hz - 91,2% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3-HE3Z 200L6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 22 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 985 - 1185 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 9,4%; P2 (50;100) = 7,6%; P3 (25;100) = 6,8%; P4 (90;50) = 5,8%; P5 (50;50) = 4,3%; P6 (50;25) = 3,5%; P7 (25;25) = 2,8%



**HE3 225M6 30kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 92,9% at 50Hz - 94,1% at 60 Hz 75%: 93,0% at 50Hz - 94,2% at 60 Hz 50%: 90,1% at 50Hz - 91,3% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3 225M6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 30 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 985 - 1180 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 9,2%; P2 (50;100) = 7,3%; P3 (25;100) = 6,5%; P4 (90;50) = 5,0%; P5 (50;50) = 3,8%; P6 (50;25) = 2,9%; P7 (25;25) = 2,4%

**HE3 250M6 37kW**

Nr.	Information
1	<p><b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b></p> <p>100%: 93,3% at 50Hz - 94,1% at 60 Hz                      75%: 93,4% at 50Hz - 94,2% at 60 Hz                      50%: 90,5% at 50Hz - 91,3% at 60 Hz</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>Rossi S.p.A.                      EORI code n° IT07184950157                      Via Emilia Ovest 915/A - 41123 Modena -Italy</p>
4	<p><b>Product's model identifier:</b></p> <p>HE3 250M6</p>
5	<p><b>Number of poles of the motor:</b></p> <p>6</p>
6	<p><b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b></p> <p>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>400V(<math>\Delta</math>) - 460V(<math>\Delta</math>)</p>
9	<p><b>The rated speed(s) or range of rated speed (rpm):</b></p> <p>985 - 1180 rpm</p>
10	<p><b>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>(a) altitudes above sea-level: 0 - 1000 m a.s.l.</p> <p>(b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C</p> <p>(c) water coolant temperature at the inlet to the product, where applicable: Not applicable</p> <p>(d) maximum operating temperature: Insulation class F 155°C</p> <p>(e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere</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) = 8,3%; P2 (50;100) = 6,8%; P3 (25;100) = 6,0%; P4 (90;50) = 4,7%;                      P5 (50;50) = 3,5%; P6 (50;25) = 2,7%; P7 (25;25) = 2,2%</p>

**HE3 280S6 45kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 93,7% at 50Hz - 94,5% at 60 Hz 75%: 93,8% at 50Hz - 94,6% at 60 Hz 50%: 90,9% at 50Hz - 91,7% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3 280S6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 45 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 990 - 1185 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 7,6%; P2 (50;100) = 6,2%; P3 (25;100) = 5,5%; P4 (90;50) = 4,3%; P5 (50;50) = 3,2%; P6 (50;25) = 2,4%; P7 (25;25) = 2,0%

**HE3 280M6 55kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 94,1% at 50Hz - 94,5% at 60 Hz 75%: 94,2% at 50Hz - 94,6% at 60 Hz 50%: 91,3% at 50Hz - 91,7% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE3
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE3 280M6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 55 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 990 - 1185 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 7,0%; P2 (50;100) = 5,6%; P3 (25;100) = 5,0%; P4 (90;50) = 4,1%; P5 (50;50) = 3,0%; P6 (50;25) = 2,3%; P7 (25;25) = 1,8%

**HE4 315S6 75kW**

Nr.	Information
1	<b>Rated efficiency (<math>\eta_N</math>) at the full, 75 % and 50 % rated load and voltage (<math>U_N</math>), determined based on 25 °C ambient reference temperature, rounded to one decimal place:</b> 100%: 95,4% at 50Hz - 95,8% at 60 Hz 75%: 95,6% at 50Hz - 95,4% at 60 Hz 50%: 92,5% at 50Hz - 92,3% at 60 Hz
2	<b>Efficiency level: 'IE2' 'IE3' or 'IE4':</b> IE4
3	<b>Manufacturer's name or trade mark, commercial registration number and address:</b> Rossi S.p.A. EORI code n° IT07184950157 Via Emilia Ovest 915/A - 41123 Modena -Italy
4	<b>Product's model identifier:</b> HE4 315S6
5	<b>Number of poles of the motor:</b> 6
6	<b>The rated power output(s) <math>P_N</math> or range of rated power output (kW):</b> 75 kW
7	<b>The rated input frequency(s) of the motor (Hz):</b> 50 Hz - 60 Hz
8	<b>The rated voltage(s) or range of rated voltage (V):</b> 400V( $\Delta$ ) - 460V( $\Delta$ )
9	<b>The rated speed(s) or range of rated speed (rpm):</b> 985 - 1180 rpm
10	<b>Single-phase or three-phase:</b> Three-phase
11	<b>Information on the range of operating conditions for which the motor is designed:</b> (a) altitudes above sea-level: 0 - 1000 m a.s.l. (b) minimum and maximum ambient air temperatures including for motors with air cooling: -15°C / +40°C (c) water coolant temperature at the inlet to the product, where applicable: Not applicable (d) maximum operating temperature: Insulation class F 155°C (e) potentially explosive atmospheres: Not suitable for installation in an explosive atmosphere
12	<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> The motor is in the scope of Regulation
13	<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> <b>Point numbering is according to IEC 60034-2-3 standard:</b> P1 (90;100) = 5,1%; P2 (50;100) = 4,0%; P3 (25;100) = 3,5%; P4 (90;50) = 2,9%; P5 (50;50) = 2,1%; P6 (50;25) = 1,6%; P7 (25;25) = 1,3%