

Взрывозащищенные электродвигатели (IE4)

Технические характеристики

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4TG160L2E

IE4, 18.5 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

18.5 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 1-21 (Flameproof)**

Product Subcategories : **Cast Iron Frame**

Output Power : **18.5 kW**

Speed : **2955 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **59.8 Nm**

Number of Poles : **2**

Current : **31.4/18.1 A (D/Y)**

Moment of Inertia : **0.05000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.7 % - 93.8 % - 92.9 %**

Power Factor : **0.91**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +50°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **161 kg**

Bearings : **DS (6309ZZ C3) - NS (6309ZZ C3)**

ATEX Classification (Gas) : **II 2G Ex db IIC T4 Gb**

ATEX Classification (Dust) : **II 2D Ex tb IIIC T120°C Db**

ATEX Certification
Number : **IEP 22 ATEX 1075X**

PTC : **120°C**

4TG160L4F

IE4, 15.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

15.0 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 1-21 (Flameproof)**

Product Subcategories : **Cast Iron Frame**

Output Power : **15.0 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **97.1 Nm**

Number of Poles : **4**

Current : **28.9/16.7 A (D/Y)**

Moment of Inertia : **0.12000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.9 % - 94.1 % - 93.8 %**

Power Factor : **0.80**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.7 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +50°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **178 kg**

Bearings : **DS (6309ZZ C3) - NS (6309ZZ C3)**

ATEX Classification (Gas) : **II 2G Ex db IIC T4 Gb**

ATEX Classification (Dust) : **II 2D Ex tb IIIC T120°C Db**

ATEX Certification
Number : **IEP 22 ATEX 1075X**

PTC : **120°C**

4TG160M2C

IE4, 11.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

11.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 1-21 (Flameproof)**

Product Subcategories : **Cast Iron Frame**

Output Power : **11.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **35.6 Nm**

Number of Poles : **2**

Current : **18.9/10.9 A (D/Y)**

Moment of Inertia : **0.03913 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **92.6 % - 92.7 % - 91.2 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +50°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **157 kg**

Bearings : **DS (6309ZZ C3) - NS (6309ZZ C3)**

ATEX Classification (Gas) : **II 2G Ex db IIC T4 Gb**

ATEX Classification (Dust) : **II 2D Ex tb IIIC T120°C Db**

ATEX Certification
Number : **IEP 22 ATEX 1075X**

PTC : **120°C**

4TG160M2D

IE4, 15.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

15.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 1-21 (Flameproof)**

Product Subcategories : **Cast Iron Frame**

Output Power : **15.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **48.6 Nm**

Number of Poles : **2**

Current : **25.6/14.8 A (D/Y)**

Moment of Inertia : **0.04409 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.6 % - 92.8 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +50°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **159 kg**

Bearings : **DS (6309ZZ C3) - NS (6309ZZ C3)**

ATEX Classification (Gas) : **II 2G Ex db IIC T4 Gb**

ATEX Classification (Dust) : **II 2D Ex tb IIIC T120°C Db**

ATEX Certification
Number : **IEP 22 ATEX 1075X**

PTC : **120°C**

4TG160M4E

IE4, 11.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

11.0 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 1-21 (Flameproof)**

Product Subcategories : **Cast Iron Frame**

Output Power : **11.0 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **71.5 Nm**

Number of Poles : **4**

Current : **21.0/12.1 A (D/Y)**

Moment of Inertia : **0.08600 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.5 % - 93.3 %**

Power Factor : **0.81**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **3.6 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +50°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **173 kg**

Bearings : **DS (6309ZZ C3) - NS (6309ZZ C3)**

ATEX Classification (Gas) : **II 2G Ex db IIC T4 Gb**

ATEX Classification (Dust) : **II 2D Ex tb IIIC T120°C Db**

ATEX Certification
Number : **IEP 22 ATEX 1075X**

PTC : **120°C**

4ZG132M4F

IE4, 7.50 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

7.50 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **7.50 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **48.7 Nm**

Number of Poles : **4**

Current : **14.6/8.44 A (D/Y)**

Moment of Inertia : **0.04316 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **92.6 % - 92.7 % - 91.5 %**

Power Factor : **0.80**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.8 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **62 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **88.0 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG132S2C

IE4, 5.50 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

5.50 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **5.50 kW**

Speed : **2945 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **17.8 Nm**

Number of Poles : **2**

Current : **9.60/5.54 A (D/Y)**

Moment of Inertia : **0.02104 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **90.9 % - 90.9 % - 90.0 %**

Power Factor : **0.91**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **72 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **72.5 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG132S2D

IE4, 7.50 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)




B5 Bride (FA)



B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
3000 rpm

 Frequency
50 Hz

 Output Power
7.50 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **7.50 kW**

Speed : **2945 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **24.5 Nm**

Number of Poles : **2**

Current : **13.0/7.51 A (D/Y)**

Moment of Inertia : **0.02290 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **91.7 % - 92.2 % - 91.8 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **72 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **74.0 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG132S4D

IE4, 5.50 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

5.50 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **5.50 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **35.7 Nm**

Number of Poles : **4**

Current : **11.1/6.41 A (D/Y)**

Moment of Inertia : **0.03418 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **91.9 % - 91.8 % - 90.6 %**

Power Factor : **0.78**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.8 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **61 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **75.0 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG160L2E

IE4, 18.5 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)




B14 Bride (FC)



B14 Foot Mounted (PC)

 Efficiency Class
IE4

 Synchronous Speed
3000 rpm

 Frequency
50 Hz

 Output Power
18.5 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **18.5 kW**

Speed : **2955 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **59.8 Nm**

Number of Poles : **2**

Current : **31.4/18.1 A (D/Y)**

Moment of Inertia : **0.05000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.7 % - 93.8 % - 92.9 %**

Power Factor : **0.91**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **140 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG160L4F

IE4, 15.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)




B5 Foot Mounted (PA)




B14 Bride (FC)



B14 Foot Mounted (PC)

 Efficiency Class
IE4

 Synchronous Speed
1500 rpm

 Frequency
50 Hz

 Output Power
15.0 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **15.0 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **97.5 Nm**

Number of Poles : **4**

Current : **28.9/16.7 A (D/Y)**

Moment of Inertia : **0.12000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.9 % - 94.1 % - 93.8 %**

Power Factor : **0.80**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.7 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **160 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG160M2C

IE4, 11.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

11.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **11.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **35.6 Nm**

Number of Poles : **2**

Current : **18.9/10.9 A (D/Y)**

Moment of Inertia : **0.03913 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **92.6 % - 92.7 % - 91.2 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **127 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG160M2D

IE4, 15.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

15.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **15.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **48.6 Nm**

Number of Poles : **2**

Current : **25.6/14.8 A (D/Y)**

Moment of Inertia : **0.04409 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.6 % - 92.8 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **133 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG160M4E

IE4, 11.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)




B14 Bride (FC)



B14 Foot Mounted (PC)

 Efficiency Class
IE4

 Synchronous Speed
1500 rpm

 Frequency
50 Hz

 Output Power
11.0 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **11.0 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **71.5 Nm**

Number of Poles : **4**

Current : **21.0/12.1 A (D/Y)**

Moment of Inertia : **0.08600 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.5 % - 93.3 %**

Power Factor : **0.81**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **3.6 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **145 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG180L4E

IE4, 22.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

22.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **22.0 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **142 Nm**

Number of Poles : **4**

Current : **41.0/23.7 A (D/Y)**

Moment of Inertia : **0.17000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.5 % - 94.7 % - 94.2 %**

Power Factor : **0.82**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **212 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG180M2C

IE4, 22.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

22.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **22.0 kW**

Speed : **2960 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **71.1 Nm**

Number of Poles : **2**

Current : **37.2/21.5 A (D/Y)**

Moment of Inertia : **0.07000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.0 % - 94.4 % - 93.5 %**

Power Factor : **0.91**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **195 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG180M4D

IE4, 18.5 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

18.5 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **18.5 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **120 Nm**

Number of Poles : **4**

Current : **34.6/20.0 A (D/Y)**

Moment of Inertia : **0.14700 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.2 % - 94.4 % - 94.0 %**

Power Factor : **0.82**

Locked Rotor Current : **8.0 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **190 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG200L2C

IE4, 30.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Output Power

30.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **30.0 kW**

Speed : **2970 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **96.5 Nm**

Number of Poles : **2**

Current : **51.0/29.4 A (D/Y)**

Moment of Inertia : **0.17500 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.5 % - 94.7 % - 94.0 %**

Power Factor : **0.90**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **272 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG200L2D

IE4, 37.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Output Power

37.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **37.0 kW**

Speed : **2970 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **120 Nm**

Number of Poles : **2**

Current : **63.3/36.5 A (D/Y)**

Moment of Inertia : **0.20000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.8 % - 95.0 % - 94.2 %**

Power Factor : **0.89**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **295 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG200L4E

IE4, 30.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)




B5 Bride (FA)



B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
1500 rpm

 Frequency
50 Hz

 Output Power
30.0 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **30.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **194 Nm**

Number of Poles : **4**

Current : **53.0/30.6 A (D/Y)**

Moment of Inertia : **0.35000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.9 % - 95.3 % - 95.2 %**

Power Factor : **0.86**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **310 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG225M2D

IE4, 45.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

45.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **45.0 kW**

Speed : **2975 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **145 Nm**

Number of Poles : **2**

Current : **76.0/43.9 A (D/Y)**

Moment of Inertia : **0.29000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.0 % - 95.2 % - 94.9 %**

Power Factor : **0.90**

Locked Rotor Current : **9.0 Ia/In**

Locked Rotor Torque : **3.4 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **355 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG225M4E

IE4, 45.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

45.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **45.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **290 Nm**

Number of Poles : **4**

Current : **79.2/45.7 A (D/Y)**

Moment of Inertia : **0.52000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.4 % - 95.6 % - 95.6 %**

Power Factor : **0.86**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.5 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **370 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG225S4D

IE4, 37.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron




B3 Foot Mounted (PD)




B5 Bride (FA)



B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
1500 rpm

 Frequency
50 Hz

 Output Power
37.0 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **37.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **239 Nm**

Number of Poles : **4**

Current : **65.0/37.5 A (D/Y)**

Moment of Inertia : **0.44100 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.2 % - 95.7 % - 95.0 %**

Power Factor : **0.86**

Locked Rotor Current : **8.1 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **350 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG250M2D

IE4, 55.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

55.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **55.0 kW**

Speed : **2975 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **250**

Number of Phases : **3**

Torque : **177 Nm**

Number of Poles : **2**

Current : **92.6/53.7 A (D/Y)**

Moment of Inertia : **0.52000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.3 % - 95.5 % - 94.9 %**

Power Factor : **0.90**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.4 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **445 kg**

Bearings : **DS (6315ZZ C3) - NS (6215ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG250M4E

IE4, 55.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

55.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **55.0 kW**

Speed : **1485 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **250**

Number of Phases : **3**

Torque : **354 Nm**

Number of Poles : **4**

Current : **94.3/54.4 A (D/Y)**

Moment of Inertia : **1.05000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.7 % - 96.0 % - 96.0 %**

Power Factor : **0.88**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.4 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **490 kg**

Bearings : **DS (6315ZZ C3) - NS (6215ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG280M2D

IE4, 90.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

90.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **90.0 kW**

Speed : **2985 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **280**

Number of Phases : **3**

Torque : **288 Nm**

Number of Poles : **2**

Current : **151/87.3 A (D/Y)**

Moment of Inertia : **1.10000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.8 % - 95.9 % - 95.0 %**

Power Factor : **0.90**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **77 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **640 kg**

Bearings : **DS (6316 C3) - NS (6316 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG280M4E

IE4, 90.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

90.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **90.0 kW**

Speed : **1488 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **280**

Number of Phases : **3**

Torque : **578 Nm**

Number of Poles : **4**

Current : **152/87.8 A (D/Y)**

Moment of Inertia : **1.95000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.1 % - 96.3 % - 96.3 %**

Power Factor : **0.89**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **3.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **71 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **720 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG280S2C

IE4, 75.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

75.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **75.0 kW**

Speed : **2982 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **280**

Number of Phases : **3**

Torque : **240 Nm**

Number of Poles : **2**

Current : **126/72.9 A (D/Y)**

Moment of Inertia : **0.98000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.6 % - 95.6 % - 95.2 %**

Power Factor : **0.90**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **2.7 Ma/Mn**

Break Down Torque : **3.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **76 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **620 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG280S4D

IE4, 75.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

75.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **75.0 kW**

Speed : **1487 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **280**

Number of Phases : **3**

Torque : **482 Nm**

Number of Poles : **4**

Current : **127/73.3 A (D/Y)**

Moment of Inertia : **1.50000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.0 % - 96.3 % - 96.2 %**

Power Factor : **0.89**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **3.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **670 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L2E

IE4, 160 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)




B5 Bride (FA)




B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
3000 rpm

 Frequency
50 Hz

 Output Power
160 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **160 kW**

Speed : **2986 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **512 Nm**

Number of Poles : **2**

Current : **267/154 A (D/Y)**

Moment of Inertia : **2.20000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.3 % - 96.5 % - 96.0 %**

Power Factor : **0.90**

Locked Rotor Current : **8.0 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **78 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1230 kg**

Bearings : **DS (6316 C3) - NS (6316 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L2F

IE4, 200 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

200 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **200 kW**

Speed : **2987 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **639 Nm**

Number of Poles : **2**

Current : **332/192 A (D/Y)**

Moment of Inertia : **2.70000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.5 % - 96.7 % - 96.2 %**

Power Factor : **0.90**

Locked Rotor Current : **8.1 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **78 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1340 kg**

Bearings : **DS (6316 C3) - NS (6316 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L4F

IE4, 160 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

160 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **160 kW**

Speed : **1492 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **1024 Nm**

Number of Poles : **4**

Current : **272/157 A (D/Y)**

Moment of Inertia : **4.40000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.6 % - 96.9 % - 96.5 %**

Power Factor : **0.88**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **3.4 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **76 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1370 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L4G

IE4, 200 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

200 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **200 kW**

Speed : **1492 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **1280 Nm**

Number of Poles : **4**

Current : **339/196 A (D/Y)**

Moment of Inertia : **5.20000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.7 % - 97.0 % - 96.6 %**

Power Factor : **0.88**

Locked Rotor Current : **8.8 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **76 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1520 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L6E

IE4, 110 kW, 1000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1000 rpm



Frequency

50 Hz



Output Power

110 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **110 kW**

Speed : **995 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **1056 Nm**

Number of Poles : **6**

Current : **193/111 A (D/Y)**

Moment of Inertia : **4.50000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.8 % - 96.1 % - 95.7 %**

Power Factor : **0.86**

Locked Rotor Current : **8.6 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **68 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1280 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L6F

IE4, 132 kW, 1000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1000 rpm



Frequency

50 Hz



Output Power

132 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **132 kW**

Speed : **995 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **1267 Nm**

Number of Poles : **6**

Current : **231/133 A (D/Y)**

Moment of Inertia : **5.20000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.0 % - 96.2 % - 95.8 %**

Power Factor : **0.86**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **68 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1350 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315L6G

IE4, 160 kW, 1000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)




B5 Bride (FA)




B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
1000 rpm

 Frequency
50 Hz

 Output Power
160 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **160 kW**

Speed : **995 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **1536 Nm**

Number of Poles : **6**

Current : **280/162 A (D/Y)**

Moment of Inertia : **5.55000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.2 % - 96.4 % - 96.3 %**

Power Factor : **0.86**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1446 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315M2D

IE4, 132 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

132 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **132 kW**

Speed : **2986 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **422 Nm**

Number of Poles : **2**

Current : **220/127 A (D/Y)**

Moment of Inertia : **2.00000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.2 % - 96.3 % - 96.0 %**

Power Factor : **0.90**

Locked Rotor Current : **8.0 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **77 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1070 kg**

Bearings : **DS (6316 C3) - NS (6316 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315M4E

IE4, 132 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

132 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **132 kW**

Speed : **1492 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **845 Nm**

Number of Poles : **4**

Current : **225/130 A (D/Y)**

Moment of Inertia : **3.30000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.4 % - 96.7 % - 96.2 %**

Power Factor : **0.88**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **73 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1270 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315M6D

IE4, 90.0 kW, 1000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1000 rpm



Frequency

50 Hz



Output Power

90.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **90.0 kW**

Speed : **994 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **865 Nm**

Number of Poles : **6**

Current : **160/92.0 A (D/Y)**

Moment of Inertia : **3.80000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.6 % - 95.7 % - 95.4 %**

Power Factor : **0.85**

Locked Rotor Current : **8.8 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **67 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1250 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315S2C

IE4, 110 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

110 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **110 kW**

Speed : **2985 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **352 Nm**

Number of Poles : **2**

Current : **184/106 A (D/Y)**

Moment of Inertia : **1.60000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.0 % - 96.0 % - 95.7 %**

Power Factor : **0.90**

Locked Rotor Current : **7.8 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **77 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1110 kg**

Bearings : **DS (6316 C3) - NS (6316 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315S4D

IE4, 110 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

110 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **110 kW**

Speed : **1491 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **705 Nm**

Number of Poles : **4**

Current : **187/108 A (D/Y)**

Moment of Inertia : **2.80000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **96.3 % - 96.5 % - 96.0 %**

Power Factor : **0.88**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **73 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1200 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZG315S6C

IE4, 75.0 kW, 1000 rpm, 400/690 V (D/Y), 50 Hz, Cast Iron



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1000 rpm



Frequency

50 Hz



Output Power

75.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Cast Iron

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Cast Iron Frame**

Output Power : **75.0 kW**

Speed : **994 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Cast Iron**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1000 rpm**

Frame Size : **315**

Number of Phases : **3**

Torque : **721 Nm**

Number of Poles : **6**

Current : **133/77.0 A (D/Y)**

Moment of Inertia : **3.50000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.4 % - 95.5 % - 95.2 %**

Power Factor : **0.85**

Locked Rotor Current : **8.8 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **67 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **1215 kg**

Bearings : **DS (6319 C3) - NS (6319 C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL071M2B

IE4, 0.37 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

0.37 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **0.37 kW**

Speed : **2825 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **71**

Number of Phases : **3**

Torque : **1.25 Nm**

Number of Poles : **2**

Current : **1.44/0.83 A (D/Y)**

Moment of Inertia : **0.00037 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **78.1 % - 78.3 % - 76.5 %**

Power Factor : **0.82**

Locked Rotor Current : **5.7 Ia/In**

Locked Rotor Torque : **2.8 Ma/Mn**

Break Down Torque : **3.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **58 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **6.50 kg**

Bearings : **DS (6202ZZ C3) - NS (6202ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL071M2C

IE4, 0.55 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

0.55 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **0.55 kW**

Speed : **2825 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **71**

Number of Phases : **3**

Torque : **1.86 Nm**

Number of Poles : **2**

Current : **2.03/1.17 A (D/Y)**

Moment of Inertia : **0.00046 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **81.5 % - 81.9 % - 79.5 %**

Power Factor : **0.83**

Locked Rotor Current : **6.2 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **58 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **7.50 kg**

Bearings : **DS (6202ZZ C3) - NS (6202ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL080M2C

IE4, 0.75 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

0.75 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **0.75 kW**

Speed : **2875 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **80**

Number of Phases : **3**

Torque : **2.49 Nm**

Number of Poles : **2**

Current : **2.70/1.56 A (D/Y)**

Moment of Inertia : **0.00124 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **83.5 % - 84.0 % - 81.0 %**

Power Factor : **0.83**

Locked Rotor Current : **6.8 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **59 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **11.0 kg**

Bearings : **DS (6204ZZ C3) - NS (6204ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL080M2D

IE4, 1.10 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

1.10 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **1.10 kW**

Speed : **2880 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **80**

Number of Phases : **3**

Torque : **3.65 Nm**

Number of Poles : **2**

Current : **3.79/2.19 A (D/Y)**

Moment of Inertia : **0.00135 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **85.2 % - 85.5 % - 84.9 %**

Power Factor : **0.85**

Locked Rotor Current : **7.5 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **59 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **12.0 kg**

Bearings : **DS (6204ZZ C3) - NS (6204ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL090L2D

IE4, 2.20 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

2.20 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **2.20 kW**

Speed : **2900 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **90**

Number of Phases : **3**

Torque : **7.24 Nm**

Number of Poles : **2**

Current : **7.27/4.20 A (D/Y)**

Moment of Inertia : **0.00234 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **88.0 % - 88.5 % - 87.6 %**

Power Factor : **0.86**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **20.0 kg**

Bearings : **DS (6205ZZ C3) - NS (6205ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL090S2C

IE4, 1.50 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)




B14 Bride (FC)



B14 Foot Mounted (PC)

 Efficiency Class
IE4

 Synchronous Speed
3000 rpm

 Frequency
50 Hz

 Output Power
1.50 kW

 Voltage
230/400 V (D/Y)

 Frame Material
Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **1.50 kW**

Speed : **2900 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **90**

Number of Phases : **3**

Torque : **4.94 Nm**

Number of Poles : **2**

Current : **5.11/2.95 A (D/Y)**

Moment of Inertia : **0.00221 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **86.5 % - 86.9 % - 85.7 %**

Power Factor : **0.85**

Locked Rotor Current : **7.8 Ia/In**

Locked Rotor Torque : **2.9 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **17.2 kg**

Bearings : **DS (6205ZZ C3) - NS (6205ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL100L2D

IE4, 3.00 kW, 3000 rpm, 230/400 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

3.00 kW



Synchronous Speed

3000 rpm



Voltage

230/400 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **3.00 kW**

Speed : **2910 rpm**

Voltage : **230/400 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **100**

Number of Phases : **3**

Torque : **9.85 Nm**

Number of Poles : **2**

Current : **9.53/5.50 A (D/Y)**

Moment of Inertia : **0.00503 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **89.1 % - 89.5 % - 88.5 %**

Power Factor : **0.88**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **67 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **25.9 kg**

Bearings : **DS (6206ZZ C3) - NS (6206ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL112M2D

IE4, 4.00 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

4.00 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **4.00 kW**

Speed : **2940 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **112**

Number of Phases : **3**

Torque : **13.0 Nm**

Number of Poles : **2**

Current : **7.30/4.21 A (D/Y)**

Moment of Inertia : **0.00734 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **90.0 % - 90.3 % - 89.7 %**

Power Factor : **0.88**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **32.2 kg**

Bearings : **DS (6206ZZ C3) - NS (6206ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL132M4F

IE4, 7.50 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

7.50 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **7.50 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **48.7 Nm**

Number of Poles : **4**

Current : **14.6/8.44 A (D/Y)**

Moment of Inertia : **0.04316 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **92.6 % - 92.7 % - 91.5 %**

Power Factor : **0.80**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.8 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **62 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **72.8 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL132S2C

IE4, 5.50 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

5.50 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **5.50 kW**

Speed : **2945 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **17.8 Nm**

Number of Poles : **2**

Current : **9.60/5.54 A (D/Y)**

Moment of Inertia : **0.02104 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **90.9 % - 90.9 % - 90.0 %**

Power Factor : **0.91**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **72 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **52.5 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL132S2D

IE4, 7.50 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

7.50 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **7.50 kW**

Speed : **2945 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **24.5 Nm**

Number of Poles : **2**

Current : **13.0/7.51 A (D/Y)**

Moment of Inertia : **0.02290 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **91.7 % - 92.2 % - 91.8 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **72 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **55.6 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL132S4D

IE4, 5.50 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

5.50 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **5.50 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **132**

Number of Phases : **3**

Torque : **35.7 Nm**

Number of Poles : **4**

Current : **11.1/6.41 A (D/Y)**

Moment of Inertia : **0.03418 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **91.9 % - 91.8 % - 90.6 %**

Power Factor : **0.78**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.8 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **61 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **56.7 kg**

Bearings : **DS (6208ZZ C3) - NS (6208ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL160L2E

IE4, 18.5 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

18.5 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **18.5 kW**

Speed : **2955 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **59.8 Nm**

Number of Poles : **2**

Current : **31.4/18.1 A (D/Y)**

Moment of Inertia : **0.05000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.7 % - 93.8 % - 92.9 %**

Power Factor : **0.91**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **114 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL160L4F

IE4, 15.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

15.0 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **15.0 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **97.5 Nm**

Number of Poles : **4**

Current : **28.9/16.7 A (D/Y)**

Moment of Inertia : **0.12000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.9 % - 94.1 % - 93.8 %**

Power Factor : **0.80**

Locked Rotor Current : **8.7 Ia/In**

Locked Rotor Torque : **3.7 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **112 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL160M2C

IE4, 11.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

11.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **11.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **35.6 Nm**

Number of Poles : **2**

Current : **18.9/10.9 A (D/Y)**

Moment of Inertia : **0.03913 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **92.6 % - 92.7 % - 91.2 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **89.0 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL160M2D

IE4, 15.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

15.0 kW



Synchronous Speed

3000 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **15.0 kW**

Speed : **2950 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **48.6 Nm**

Number of Poles : **2**

Current : **25.6/14.8 A (D/Y)**

Moment of Inertia : **0.04409 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.6 % - 92.8 %**

Power Factor : **0.91**

Locked Rotor Current : **8.5 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **4.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **96.8 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL160M4E

IE4, 11.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



B14 Bride (FC)



B14 Foot Mounted (PC)



Efficiency Class

IE4



Output Power

11.0 kW



Synchronous Speed

1500 rpm



Voltage

400/690 V (D/Y)



Frequency

50 Hz



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **11.0 kW**

Speed : **1470 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35 / B34 / B14**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **160**

Number of Phases : **3**

Torque : **71.5 Nm**

Number of Poles : **4**

Current : **21.0/12.1 A (D/Y)**

Moment of Inertia : **0.08600 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **93.3 % - 93.5 % - 93.3 %**

Power Factor : **0.81**

Locked Rotor Current : **7.7 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **3.6 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **99.5 kg**

Bearings : **DS (6309ZZ C3) - NS (6209ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL180L4E

IE4, 22.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

22.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **22.0 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **142 Nm**

Number of Poles : **4**

Current : **41.0/23.7 A (D/Y)**

Moment of Inertia : **0.17000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.5 % - 94.7 % - 94.2 %**

Power Factor : **0.82**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **168 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL180M2C

IE4, 22.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

22.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **22.0 kW**

Speed : **2960 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **71.1 Nm**

Number of Poles : **2**

Current : **37.2/21.5 A (D/Y)**

Moment of Inertia : **0.07000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.0 % - 94.4 % - 93.5 %**

Power Factor : **0.91**

Locked Rotor Current : **8.9 Ia/In**

Locked Rotor Torque : **3.0 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **158 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL180M4D

IE4, 18.5 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

18.5 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **18.5 kW**

Speed : **1475 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **180**

Number of Phases : **3**

Torque : **120 Nm**

Number of Poles : **4**

Current : **34.6/20.0 A (D/Y)**

Moment of Inertia : **0.14700 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.2 % - 94.4 % - 94.0 %**

Power Factor : **0.82**

Locked Rotor Current : **8.0 Ia/In**

Locked Rotor Torque : **3.1 Ma/Mn**

Break Down Torque : **3.5 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **142 kg**

Bearings : **DS (6310ZZ C3) - NS (6210ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL200L2C

IE4, 30.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

30.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **30.0 kW**

Speed : **2970 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **96.5 Nm**

Number of Poles : **2**

Current : **51.0/29.4 A (D/Y)**

Moment of Inertia : **0.17500 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.5 % - 94.7 % - 94.0 %**

Power Factor : **0.90**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **3.7 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **215 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL200L2D

IE4, 37.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

37.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **37.0 kW**

Speed : **2970 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **120 Nm**

Number of Poles : **2**

Current : **63.3/36.5 A (D/Y)**

Moment of Inertia : **0.20000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.8 % - 95.0 % - 94.2 %**

Power Factor : **0.89**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.2 Ma/Mn**

Break Down Torque : **4.0 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **235 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL200L4E

IE4, 30.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)




B5 Bride (FA)



B5 Foot Mounted (PA)

 Efficiency Class
IE4

 Synchronous Speed
1500 rpm

 Frequency
50 Hz

 Output Power
30.0 kW

 Voltage
400/690 V (D/Y)

 Frame Material
Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **30.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **200**

Number of Phases : **3**

Torque : **194 Nm**

Number of Poles : **4**

Current : **53.0/30.6 A (D/Y)**

Moment of Inertia : **0.35000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **94.9 % - 95.3 % - 95.2 %**

Power Factor : **0.86**

Locked Rotor Current : **8.3 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.8 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **64 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **235 kg**

Bearings : **DS (6312ZZ C3) - NS (6212ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL225M2D

IE4, 45.0 kW, 3000 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

3000 rpm



Frequency

50 Hz



Output Power

45.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **45.0 kW**

Speed : **2975 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **3000 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **145 Nm**

Number of Poles : **2**

Current : **76.0/43.9 A (D/Y)**

Moment of Inertia : **0.29000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.0 % - 95.2 % - 94.9 %**

Power Factor : **0.90**

Locked Rotor Current : **9.0 Ia/In**

Locked Rotor Torque : **3.4 Ma/Mn**

Break Down Torque : **4.2 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **74 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **255 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL225M4E

IE4, 45.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

45.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **45.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **290 Nm**

Number of Poles : **4**

Current : **79.2/45.7 A (D/Y)**

Moment of Inertia : **0.52000 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.4 % - 95.6 % - 95.6 %**

Power Factor : **0.86**

Locked Rotor Current : **8.2 Ia/In**

Locked Rotor Torque : **3.5 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **320 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

4ZL225S4D

IE4, 37.0 kW, 1500 rpm, 400/690 V (D/Y), 50 Hz, Aluminum



B3 Foot Mounted (PD)



B5 Bride (FA)



B5 Foot Mounted (PA)



Efficiency Class

IE4



Synchronous Speed

1500 rpm



Frequency

50 Hz



Output Power

37.0 kW



Voltage

400/690 V (D/Y)



Frame Material

Aluminum

Specifications

Product Categories : **Zone 2-22 (Increased Safety)**

Product Subcategories : **Aluminum Frame**

Output Power : **37.0 kW**

Speed : **1480 rpm**

Voltage : **400/690 V (D/Y)**

Frequency : **50 Hz**

Frame Material : **Aluminum**

Structure Shape : **B5 / B3 / B35**

Terminal Box Position : **Top**

Efficiency Class : **IE4**

Synchronous Speed : **1500 rpm**

Frame Size : **225**

Number of Phases : **3**

Torque : **239 Nm**

Number of Poles : **4**

Current : **65.0/37.5 A (D/Y)**

Moment of Inertia : **0.44100 kg.m²**

Load : **4/4 - 3/4 - 1/2**

Efficiency : **95.2 % - 95.7 % - 95.0 %**

Power Factor : **0.86**

Locked Rotor Current : **8.1 Ia/In**

Locked Rotor Torque : **3.3 Ma/Mn**

Break Down Torque : **3.3 Mk/Mn**

Insulation Class : **F (155°C)**

Ambient Temperature : **-20°C +40°C**

Maximum Altitude : **1000 m**

Sound Pressure Level : **70 dB(A)**

Vibration Class : **A**

Duty Cycle : **S1 (Continuous Running Duty)**

Service Factor : **1.00**

Direction of Rotation : **Clockwise**

Motor Weight : **270 kg**

Bearings : **DS (6313ZZ C3) - NS (6213ZZ C3)**

ATEX Classification (Gas) : **II 3G Ex ec IIC T4 Gc**

ATEX Classification (Dust) : **II 3D Ex tc IIIC T140°C Dc**

ATEX Certification
Number : **IEP 23 ATEX 1306X**

PTC : **140°C**

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