Available as either single or three phase units, Parvalux AC electric motors come in aluminium housings as both motor-only and geared units. Our AC motors have been hand-built in Britain since 1947 and are available worldwide.

- Power range up to 250 Watts
- AC induction, single and three-phase
- Permanent capacitor and capacitor start/run
- AC/DC series wound universal motors
SD21 AC motor
Ø81 mm frame // 25 mm stack

4 holes on 41.3mm P.C.D. Can be tapped M5 × 8mm deep.
Leads out here 30cm

Part number key
- Available on request:
  - custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speeds, higher IP protection class, custom flanges and connectors

Technical data
1 Part number -
2 Phases 1 1 1 1
3 Frequency Hz 50 50 60 60
4 Nominal voltage V AC 230 230 115 230
5 Nominal power W 8 20 8 20
6 Nominal speed rpm 1400 2800 1700 3400
7 Nominal continuous torque (S1) Nm 0.06 0.07 0.05 0.06
8 Nominal continuous current (S1) A 0.18 0.34 0.42 0.60
9 Starting Current A 0.45 0.85 1.05 1.50
10 Input Watts W 40 80 40 80
11 Capacitor Value MFD 2.5 2.0 2.0 2.0
12 Starting Torque Full Load % 100 100 100 100
13 Stack length mm 25 25 25 25
14 Number of poles 4 2 4 2
15 Rotor inertia Kgcm² - - - -

Thermal data
16 Ambient temperature °C 40

Mechanical data
17 Radial load (distance from flange) N [mm] 100 [15]

Other data
18 Weight Kg 1.5
19 Enclosure VENT/75
20 IP Rating - Ventilated IP30
21 IP Rating - TE/TEFC IP54
22 Insulation Class F
23 Type Permanent capacitor, asynchronous
24 Direction Bi-directional

Note: Brakes are not available on TEFC (Totally Enclosed Fan Cooled) motors.
All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website.

SD41 AC motor
Ø81 mm frame // 38 mm stack

4 holes on 41.3mm P.C.D. Can be tapped M5 × 8mm deep.
Leads out here 30cm

Part number key
- Available on request:
  - custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speeds, higher IP protection class, custom flanges and connectors

Technical data
1 Part number -
2 Phases 1 1 1 1 3 3 3 3
3 Frequency Hz 50 50 60 60 50 50 60 60
4 Nominal voltage V AC 230 230 115 115 400 400 230 230
5 Nominal power W 10 25 10 25 10 25 10 25
6 Nominal speed rpm 1400 2800 1700 3400 1400 2800 1700 3400
7 Nominal continuous torque (S1) Nm 0.09 0.10 0.09 0.10 0.09 0.10 0.09 0.10
8 Nominal continuous current (S1) A 0.20 0.25 0.60 0.70 0.14 0.14 - -
9 Starting Current A 0.50 0.63 1.50 1.75 0.35 0.35 0.35 0.35
10 Input Watts W 47 58 - - 47 58 - -
11 Capacitor Value MFD 2.5 10 2.5 10 2.5 10 2.5 10
12 Starting Torque Full Load % 150 150 150 150 150 150 150 150
13 Stack length mm 38 38 38 38 38 38 38 38
14 Number of poles 4 2 4 2 4 2 4 2
15 Rotor inertia Kgcm² - - - - - - - -

Thermal data
16 Ambient temperature °C 40

Mechanical data
17 Radial load (distance from flange) N [mm] 100 [15]

Other data
18 Weight Kg 2.1
19 Enclosure VENT/75
20 IP Rating - Ventilated IP30
21 IP Rating - TE/TEFC IP54
22 Insulation Class F
23 Type Permanent capacitor, asynchronous
24 Direction Bi-directional

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### Technical data

<table>
<thead>
<tr>
<th>Part number key</th>
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<th>Standard</th>
<th>Calculated</th>
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### Calculated data

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  - Calculated

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  - Calculated

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  - Calculated

- **Part number key Available on request:**
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  - Standard
  - Calculated

- **Part number key Available on request:**
  - Modular
  - Standard
  - Calculated
### Technical data

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<tr>
<th>Spec</th>
<th>Value</th>
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<tr>
<td>1. Part number</td>
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<tr>
<td>2. Number of poles</td>
<td>4 2 4 2 4 2 4 2</td>
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<tr>
<td>3. IP Rating - Ventilated</td>
<td>IP20</td>
</tr>
<tr>
<td>4. Nominal voltage</td>
<td>AC 230 230 115 115 400 400 230 230</td>
</tr>
<tr>
<td>5. Nominal power</td>
<td>W 55 100 55 100 55 50 55 120</td>
</tr>
<tr>
<td>6. Nominal speed</td>
<td>rpm 1400 2800 1700 3400 2800 1700 3400 3400</td>
</tr>
<tr>
<td>7. Nominal continuous torque</td>
<td>(SI) Nm 0.38 0.34 0.31 0.28 0.38 0.41 0.38 0.41</td>
</tr>
<tr>
<td>8. Nominal continuous current</td>
<td>(SI) A 0.41 0.76 - - 0.38 0.36 - -</td>
</tr>
<tr>
<td>9. Starting Current</td>
<td>A 1.03 1.60 0 0 0.70 0.96 0 0</td>
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<tr>
<td>10. Input Watts</td>
<td>W 100 100 100 100 100 100 100 100</td>
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<tr>
<td>11. Capacitor Value</td>
<td>M.F.D 3.0 6.0 3.0 6.0 - - - -</td>
</tr>
<tr>
<td>12. Starting Torque Full Load</td>
<td>% 85 85 85 85 150 150 150 150</td>
</tr>
<tr>
<td>13. Stack length</td>
<td>mm 56 56 56 56 56 56 56 56</td>
</tr>
<tr>
<td>14. Number of poles</td>
<td>4 2 4 2 4 2 4 2</td>
</tr>
<tr>
<td>15. Rotor inertia</td>
<td>Kg.cm² 85 85 85 85 150 150 150 150</td>
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### Mechanical data

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>10. Ambient temperature</td>
<td>°C 40</td>
</tr>
<tr>
<td>11. Radial load (distance from flange)</td>
<td>N [mm] 150 (15)</td>
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### Other data

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
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<tbody>
<tr>
<td>16. Weight</td>
<td>Kg 3.6</td>
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<tr>
<td>17. Enclosure</td>
<td>VENT/TEFC</td>
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<tr>
<td>18. IP Rating - Ventilated</td>
<td>IP20</td>
</tr>
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<td>19. IP Rating - TE/TEFC</td>
<td>IP54</td>
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<tr>
<td>20. Insulation Class</td>
<td>F</td>
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<tr>
<td>21. Type</td>
<td>Permanent capacitor, asynchronous</td>
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<tr>
<td>22. Direction</td>
<td>Bi-directional</td>
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### Calculated data

<table>
<thead>
<tr>
<th>Spec</th>
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</thead>
<tbody>
<tr>
<td>23. Brake</td>
<td>0.4 Nm 35</td>
</tr>
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</table>

### Part number key

- Modular
- Standard
- Part number
- Available on request:
- Technical data
- Calculated data
- Modular system
- Note:

Brakes are not available on TEFC (Totally Enclosed Fan Cooled) motors.

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### SD13 AC Motor

**Ø120 mm frame / 46 mm stack**

<table>
<thead>
<tr>
<th>Part number key</th>
<th>Technical data</th>
<th>Other data</th>
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</thead>
<tbody>
<tr>
<td>Modular</td>
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</tr>
<tr>
<td>Standard</td>
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</tr>
<tr>
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#### Technical data

<table>
<thead>
<tr>
<th>Part number</th>
<th>Nominal voltage (V)</th>
<th>Nominal power (W)</th>
<th>Nominal current (A)</th>
<th>Starting current (A)</th>
<th>Nominal speed (rpm)</th>
<th>Nominal continuous torque (S1) (Nm)</th>
<th>Nominal continuous current (S1) (A)</th>
<th>Nominal continuous M.F.D (%)</th>
<th>Part number key</th>
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<tbody>
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<td>230</td>
<td>115</td>
<td>0.5</td>
<td>0.4</td>
<td>1400</td>
<td>0.68</td>
<td>0.44</td>
<td>1.20</td>
<td>M.F.D</td>
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<tr>
<td>GB12</td>
<td>230</td>
<td>115</td>
<td>0.75</td>
<td>0.4</td>
<td>1700</td>
<td>0.68</td>
<td>0.44</td>
<td>1.20</td>
<td>M.F.D</td>
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<tr>
<td>GB4/41</td>
<td>230</td>
<td>115</td>
<td>0.7</td>
<td>0.4</td>
<td>3400</td>
<td>0.68</td>
<td>0.44</td>
<td>1.20</td>
<td>M.F.D</td>
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#### Mechanical data

<table>
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<tr>
<th>Load (distance from flange)</th>
<th>L [mm]</th>
<th>L [mm]</th>
<th>L [mm]</th>
<th>L [mm]</th>
<th>L [mm]</th>
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<tbody>
<tr>
<td>GB9</td>
<td>110</td>
<td>108</td>
<td>108</td>
<td>108</td>
<td>108</td>
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<td>110</td>
<td>108</td>
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#### Other data

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<th>Brake</th>
<th>Mechanical data</th>
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<tr>
<td>Kg</td>
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<td>5.4</td>
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<td>GB12</td>
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<tr>
<td>5.4</td>
<td></td>
<td>GB4/41</td>
</tr>
</tbody>
</table>

**All dimensions in mm**

---

**Modular system**

- Gearbox (GB9, GB12, GB4/41)
- Gearbox (LIS, LIW, LWS)
- Gearbox (PGS60, PGS60, PGS60)

---

**Gears**

- 44 - 90 [mm] (GB9, GB12, GB4/41)
- 57 - 107 [mm] (LIS, LIW, LWS, PGS60, PGS60, PGS60)

---

**Other data**

- Weight Kg
- Enclosure: VENT/TBG
- IP Rating: IP20
- Type: Permanent capacitor, asynchronous
- Direction: B-directional

---

**Note:** All products are built in accordance to performance tolerances from EN60034-1:2010. As continuous improvement, Parvalux periodically test their product range to ensure test results are as accurate as possible and are therefore subject to change. Please ensure you are using the latest datasheets found on our website.

**Technical data**

- Nominal voltage: 230 V AC
- Nominal power: 115 W
- Nominal speed: 115 rpm
- Nominal continuous torque (S1): 0.68 Nm
- Nominal continuous current (S1): 0.44 A
- Nominal continuous M.F.D: 1.20%

---

**Note:** Brakes are not available on TEFC (Totally Enclosed Fan Cooled) motors.
custom shaft length and diameter, shaft on both sides, special windings for specific voltages and speed, higher IP protection class, custom flanges and connectors.

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---

### Modular

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<thead>
<tr>
<th>Part number</th>
<th>Phases</th>
<th>Frequency (Hz)</th>
<th>Nominal voltage (V AC)</th>
<th>Nominal power (W)</th>
<th>Nominal speed (rpm)</th>
<th>Nominal continuous torque (S1) (Nm)</th>
<th>Nominal continuous current (S1) (A)</th>
<th>Starting Current (A)</th>
<th>Input Watts (W)</th>
<th>Capacitor Value (M.F.D)</th>
<th>Starting Torque Full Load (%)</th>
<th>Stack length (mm)</th>
<th>Number of poles</th>
<th>Rotor inertia (Kg cm²)</th>
<th>Ambient temperature (°C)</th>
<th>Radial load (distance from flange) (N [mm])</th>
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<tr>
<td></td>
<td>4</td>
<td>50</td>
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<td>150</td>
<td>1400</td>
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<td>0.50</td>
<td>0.75</td>
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<td>40/50</td>
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<td>56</td>
<td>2</td>
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<td>3</td>
<td>400</td>
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<td>250</td>
<td>3400</td>
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<td>-</td>
<td>300</td>
<td>40/50</td>
<td>1.88</td>
<td>56</td>
<td>4</td>
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### All dimensions in mm

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### Notes

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