



PowerXL™ Variable Frequency Drives DC1 Compact Machinery Drive

The compact PowerXL™ DC1 variable frequency drive is particularly well-suited for use with simple pump, fan, and conveyor belt systems. It can be quickly and easily configured and commissioned, resulting in tangible savings.

Performance range:

- 0.37 ... 0.55 kW (U_g : 1~ 115 V, U_2 : 1~ 115 V)
- 0.37 ... 1.1 kW (U_g : 1~ 115 V, U_2 : 3~ 230 V)
- 0.37 ... 1.1 kW (U_g : 1~ 230 V, U_2 : 1~ 230 V)
- 0.37 ... 4 kW (U_g : 1~ 230 V, U_2 : 3~ 230 V)
- 0.37 ... 4 kW (U_g : 3~ 230 V, U_2 : 3~ 230 V)
- 0.75 ... 11 kW (U_g : 3~ 400 V, U_2 : 3~ 400 V)

Features:

- Fast commissioning with 14 basic parameters
- Large overload capability: 150% for 60 seconds, 175% for 2 seconds
- Ambient air temperature up to 50 °C without derating
- Integrated CANopen and Modbus RTU
- Degrees of protection IP20 and IP66
- Integrated EMC filter
- Integrated braking transistor
- Integrated PI controller
- V/F control
- Voltage boost
- DC braking
- Detachable control signal terminal strip
- International standards (CE, UL, cUL, c-Tick, RoHS, Gost-R, UkrSEPRO)

Accessories:

- SmartWire-DT connection
- I/O expansions
- External keypad
- Mains chokes
- Motor chokes
- Sine filters
- Braking resistances
- drivesConnect parameter configuration software
- External EMC filter

Applications:

- Pumps, fans
- Machines
- Coating systems
- Conveyor belts
- Filling machines
- Distributed applications (IP66)
- Applications with single-phase motors



| | |
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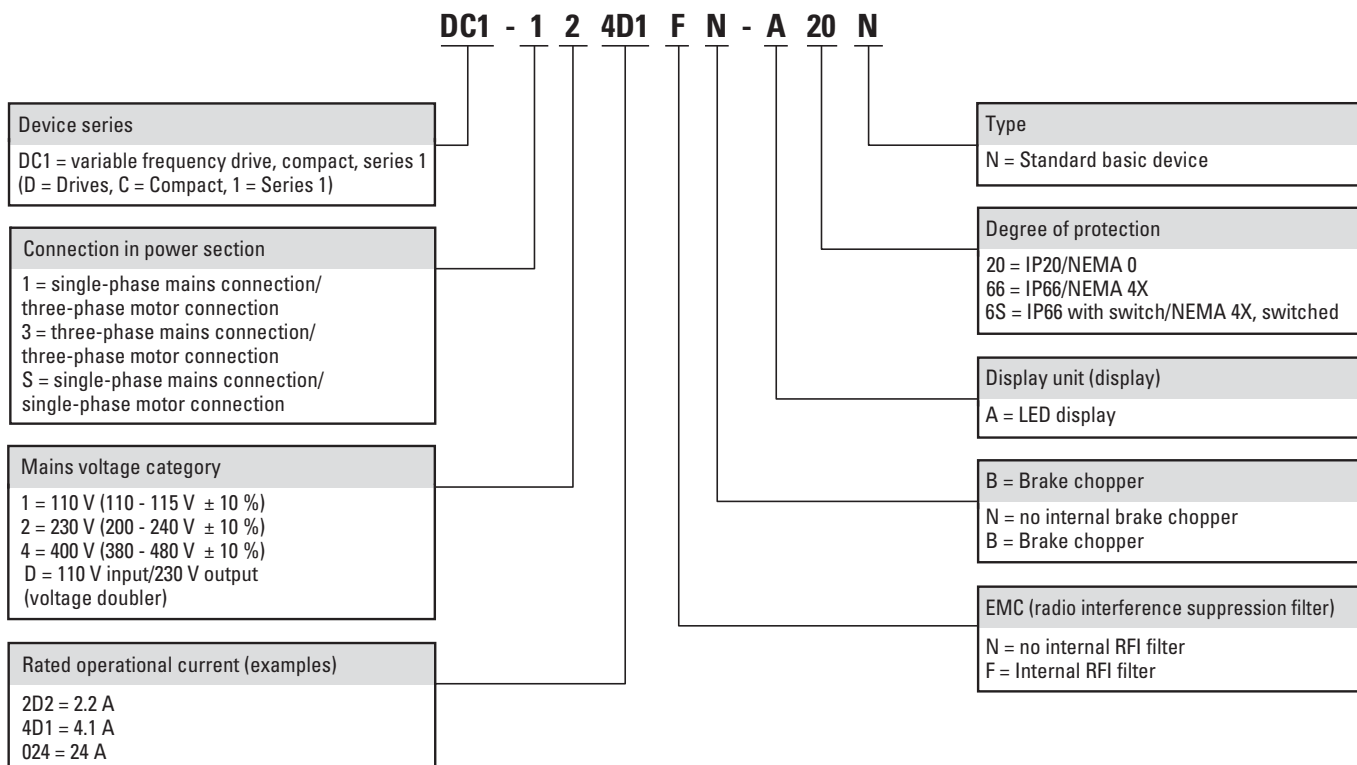
System overview

DC1 with IP20 degree of protection



| | |
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| DC1 variable frequency drives | 1 |
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| Mains choke, motor choke, sine filter | 2 |
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Key to type references



DC1

Sizes and degree of protection



| Frame size | Degree of Protection | | |
|------------|----------------------|--------------|--------------------------------|
| | IP20/NEMA 0 | IP66/NEMA 4X | IP66/NEMA 4X Local controls |
| FS1 | | | |
| FS2 | | | |
| FS3 | | | |
| FS4 | | | |

UL/CSA

Information relevant for export to North America



| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Standards | UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking |
| UL File No. | E172143 |
| UL Category Control No. | NMMS, NMMS7 |
| CSA File No. | UL report applies to both US and Canada |
| North America Certification | UL listed, certified by UL for use in Canada |
| Suitable for | Branch circuits |
| Max. Voltage Rating | 1~ 120 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey) 1~ 240 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey) 3~ 240 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey) 3~ 480 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey) |

| Rated operational current ^{1), 4)} | Assigned motor rating ^{1), 2), 3)} | | Fitted with | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|--------------------------------------------------------------------------------------|------------|-----------------------------------|-----------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I_e A | P kW | P HP | Radio interference suppression filter Brake chopper 7-digital display assembly | | | | | |
| PowerXL™ DC1 variable frequency drives | | | | | | | | |
| U _e 115 V AC, single-phase / U ₂ 115 V AC, single-phase Mains voltage (50/60Hz) U _{LN} 110 (-10%) - 115 (+10%) V | | | | | | | | |
| 7 | 0.37 | 0.5 | - - ✓ | FS1 | IP20/NEMA 0 | DC1-S17D0NN-A20N 169497 | | 1 off |
| 10.5 | 0.55 | 0.75 | - ✓ ✓ | FS2 | | DC1-S1011NB-A20N 169500 | | |
| U _e 230 V AC, 1-phase / U ₂ 230 V AC, single-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | |
| 4.3 | 0.37 | 0.5 | - - ✓ ✓ - ✓ | FS1 | IP20/NEMA 0 | DC1-S24D3NN-A20N 169512 | | 1 off   |
| 7 | 0.75 | 1 | - - ✓ ✓ - ✓ | | | DC1-S24D3FN-A20N 169521 | | |
| 10.5 | 1.1 | 1.5 | - ✓ ✓ | FS2 | DC1-S27D0NN-A20N 169515 | | | |
| | | | ✓ ✓ ✓ | | DC1-S27D0FN-A20N 169524 | | | |
| | | | | | | DC1-S2011NB-A20N 169518 | | |
| | | | | | | DC1-S2011FB-A20N 169527 | | |

Notes

¹⁾ Overload cycle: 150 % for 60 s every 600 s

²⁾ DC1-S1...: at 115 V, 50 Hz/at 110 - 120 V, 60 Hz





DE1-34...:DC1-S2...: at 230 V, 50 Hz/at 220 - 240 V, 60 Hz

³⁾ For AC motors with internal and external ventilation with 50/60 Hz without additional start capacitor

⁴⁾ Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C









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| Rated operational current ^{1), 4)} I _e A | Assigned motor rating ^{1), 2), 3)} P kW P HP | | Fitted with Radio interference suppression filter Brake chopper 7-digital display assembly | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------|------------|-------------------------|-----------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | | | | | |
| PowerXL™ DC1 variable frequency drives | | | | | | | | |
| U _e 115 V AC, single-phase / U ₂ 230 V AC, 3-phase The mains voltage of 115 V is raised to 230 V (output voltage) through an internal voltage double connection. Mains voltage (50/60Hz) U _{LN} 110 (-10%) - 115 (+10%) V | | | | | | | | |
| 2.3 | 0.37 | 0.5 | - - ✓ | FS1 | IP20/NEMA 0 | DC1-1D2D3NN-A20N 169503 | | 1 off   |
| 4.3 | 0.75 | 1 | - - ✓ | | | DC1-1D4D3NN-A20N 169506 | | |
| 5.8 | 1.1 | 1.5 | - ✓ ✓ | FS2 | | DC1-1D5D8NB-A20N 169509 | | |
| U _e 230 V AC, 1-phase / U ₂ 230 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | |
| 2.3 | 0.37 | 0.5 | - - ✓ ✓ - ✓ | FS1 | IP20/NEMA 0 | DC1-122D3NN-A20N 169222 | | 1 off   |
| 4.3 | 0.75 | 1 | - - ✓ ✓ - ✓ | | | DC1-122D3FN-A20N 169240 | | |
| 7 | 1.5 | 2 | - - ✓ ✓ - ✓ | | | DC1-124D3NN-A20N 169225 | | |
| | | | - - ✓ ✓ - ✓ | | | DC1-124D3FN-A20N 169243 | | |
| 10.5 | 2.2 | 3 | - - ✓ ✓ - ✓ | FS2 | | DC1-127D0NN-A20N 169228 | | |
| | | | - ✓ ✓ ✓ ✓ ✓ | | | DC1-127D0FN-A20N 169246 | | |
| | | | - ✓ ✓ ✓ ✓ ✓ | | | DC1-127D0NB-A20N 169231 | | |
| 15 ⁵⁾ | 4 | 5 | - ✓ ✓ ✓ ✓ ✓ | | | DC1-127D0FB-A20N 169249 | | |
| | | | - ✓ ✓ ✓ ✓ ✓ | | | DC1-12011NB-A20N 169234 | | |
| | | | | FS3 | | DC1-12011FB-A20N 169252 | | |
| | | | | | | DC1-12015NB-A20N 169237 | | |

Notes



- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
- 3) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- 4) Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C
- 5) Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +50 °C

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| Rated operational current ^{1), 4)} | | Assigned motor rating ^{1), 2), 3)} | | Fitted with | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|---------|--------------------------------------------------------------------------------------|------------|----------------------|-----------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I _e A | | P kW | P HP | Radio interference suppression filter Brake chopper 7-digital display assembly | | | | | |
| PowerXL™ DC1 variable frequency drives | | | | | | | | | |
| U _e 230 V AC, 3-phase / U ₂ 230 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | | |
| 2.3 | | 0.37 | 0.5 | - - ✓ | FS1 | IP20/NEMA 0 | DC1-322D3NN-A20N 169255 | | 1 off   |
| 4.3 | | 0.75 | 1 | - - ✓ | | | DC1-324D3NN-A20N 169258 | | |
| 7 | | 1.5 | 2 | - - ✓ | FS2 | | DC1-327D0NN-A20N 169261 | | |
| | | | | - ✓ ✓ | | | DC1-327D0NB-A20N 169264 | | |
| | | | | ✓ ✓ ✓ | | | DC1-327D0FB-A20N 169444 | | |
| 10.5 | | 2.2 | 3 | - ✓ ✓ | | | DC1-32011NB-A20N 169438 | | |
| | | | | ✓ ✓ ✓ | | | DC1-32011FB-A20N 169447 | | |
| 18 | | 4 | 5 | - ✓ ✓ | FS3 | | DC1-32018NB-A20N 169441 | | |
| | | | | ✓ ✓ ✓ | | | DC1-32018FB-A20N 169450 | | |
| 24 | | 5.5 | 7.5 | - ✓ ✓ | | | DC1-32024NB-A20N 180458 | | |
| | | | | ✓ ✓ ✓ | | | DC1-32024FB-A20N 180455 | | |
| 30 | | 7.5 | 10 | - ✓ ✓ | FS4 | | DC1-32030NB-A20N 180459 | | |
| | | | | ✓ ✓ ✓ | | | DC1-32030FB-A20N 180456 | | |
| 46 | | 11 | 15 | - ✓ ✓ | | | DC1-32046NB-A20N 180460 | | |
| | | | | ✓ ✓ ✓ | | | DC1-32046FB-A20N 180457 | | |
| U _e 400 V AC, 3-phase / U ₂ 400 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 380 (-10%) - 480 (+10%) V | | | | | | | | | |
| 2.2 | | 0.75 | 1 | - - ✓ | FS1 | IP20/NEMA 0 | DC1-342D2NN-A20N 169453 | | 1 off   |
| | | | | ✓ - ✓ | | | DC1-342D2FN-A20N 169475 | | |
| 4.1 | | 1.5 | 2 | - - ✓ | FS2 | | DC1-344D1NN-A20N 169456 | | |
| | | | | ✓ - ✓ | | | DC1-344D1FN-A20N 169478 | | |
| | | | | - ✓ ✓ | | | DC1-344D1NB-A20N 169459 | | |
| | | | | ✓ ✓ ✓ | | | DC1-344D1FB-A20N 169481 | | |
| 5.8 | | 2.2 | 3 | - ✓ ✓ | | | DC1-345D8NB-A20N 169462 | | |
| | | | | ✓ ✓ ✓ | | | DC1-345D8FB-A20N 169484 | | |
| 9.5 | | 4 | 5 | - ✓ ✓ | | | DC1-349D5NB-A20N 169465 | | |
| | | | | ✓ ✓ ✓ | | | DC1-349D5FB-A20N 169487 | | |





Notes

- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) DC1-32...: at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
DC1-34...: at 400 V, 50 Hz/at 440 - 480 V, 60 Hz
- 3) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- 4) Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C
- 5) Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +50 °C

| Rated operational current ^{1), 4)} | Assigned motor rating ^{1), 2), 3)} | | Fitted with | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|--------------------------------------------------------------------------------------|------------|----------------------|-----------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I_e A | P kW | P HP | Radio interference suppression filter Brake chopper 7-digital display assembly | | | | | |
| PowerXL™ DC1 variable frequency drives | | | | | | | | |
| U ₀ 400 V AC, 3-phase / U ₂ 400 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 380 (-10%) - 480 (+10%) V | | | | | | | | |
| 14 ⁴⁾ | 5.5 | 10 | - ✓ ✓ ✓ ✓ ✓ | FS3 | IP20/NEMA 0 | DC1-34014NB-A20N 169468 | | 1 off   |
| | | | | | | DC1-34014FB-A20N 169490 | | |
| 18 ⁴⁾ | 7.5 | | - ✓ ✓ ✓ ✓ ✓ | | | DC1-34018NB-A20N 169471 | | |
| | | | | | | DC1-34018FB-A20N 169493 | | |
| 24 ⁴⁾ | 11 | 15 | - ✓ ✓ ✓ ✓ ✓ | | | DC1-34024NB-A20N 169474 | | |
| | | | | | | DC1-34024FB-A20N 169496 | | |
| 30 | 15 | 20 | - ✓ ✓ ✓ ✓ ✓ | FS4 | | DC1-34030NB-A20N 180464 | | |
| | | | | | | DC1-34030FB-A20N 180461 | | |
| 39 | 18.5 | 25 | - ✓ ✓ ✓ ✓ ✓ | | | DC1-34039NB-A20N 180465 | | |
| | | | | | | DC1-34039FB-A20N 180462 | | |
| 46 | 22 | 30 | - ✓ ✓ ✓ ✓ ✓ | | | DC1-34046NB-A20N 180466 | | |
| | | | | | | DC1-34046FB-A20N 180463 | | |



Notes





- ¹⁾ Overload cycle: 150 % for 60 s every 600 s
- ²⁾ DC1-34...: at 400 V, 50 Hz/at 440 - 480 V, 60 Hz
- ³⁾ for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- ⁴⁾ Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +50 °C

| Rated operational current ^{1), 4)} | Assigned motor rating ^{1), 2), 3)} | | Fitted with | | | | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|-------------|--------------------|---------------|----------------------------|------------|----------------------|----------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| | I _e A | P kW | P HP | Radio interference | Brake chopper | 7-digital display assembly | | | | | | Local controls |
| PowerXL™ DC1 variable frequency drives | | | | | | | | | | | | |
| U _e 115 V AC, single-phase / U ₂ 115 V AC, single-phase Mains voltage (50/60Hz) U _{LN} 110 (-10%) - 115 (+10%) V | | | | | | | | | | | | |
| 7 | 0.37 | 0.5 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-S17D0NN-A66N 169498 | | 1 off   | |
| | | | - | - | ✓ | ✓ | | | DC1-S17D0NN-A6SN 169499 | | | |
| 10.5 | 0.55 | 0.75 | - | ✓ | ✓ | - | FS2 | | DC1-S1011NB-A66N 169501 | | | |
| | | | - | ✓ | ✓ | ✓ | | | DC1-S1011NB-A6SN 169502 | | | |
| U _e 230 V AC, 1-phase / U ₂ 230 V AC, single-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | | | | | |
| 4.3 | 0.37 | 0.5 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-S24D3NN-A66N 169513 | | 1 off   | |
| | | | - | - | ✓ | ✓ | | | DC1-S24D3NN-A6SN 169514 | | | |
| | | | ✓ | - | ✓ | - | | | DC1-S24D3FN-A66N 169522 | | | |
| | | | ✓ | - | ✓ | ✓ | | | DC1-S24D3FN-A6SN 169523 | | | |
| 7 | 0.75 | 1 | - | - | ✓ | - | FS1 | | DC1-S27D0NN-A66N 169516 | | | |
| | | | - | - | ✓ | ✓ | | | | | | DC1-S27D0NN-A6SN 169517 |
| | | | ✓ | - | ✓ | - | | | | | | DC1-S27D0FN-A66N 169525 |
| | | | ✓ | - | ✓ | ✓ | | | | | | DC1-S27D0FN-A6SN 169526 |
| 10.5 | 1.1 | 1.5 | - | ✓ | ✓ | - | FS2 | | DC1-S2011NB-A66N 169519 | | | |
| | | | - | ✓ | ✓ | ✓ | | | DC1-S2011NB-A6SN 169520 | | | |
| | | | ✓ | ✓ | ✓ | - | | | DC1-S2011FB-A66N 169528 | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-S2011FB-A6SN 169529 | | | |

Notes



- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) DC1-S1...: at 115 V, 50 Hz/at 110 - 120 V, 60 Hz
DE1-34...:DC1-S2...: at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
- 3) For AC motors with internal and external ventilation with 50/60 Hz without additional start capacitor
- 4) Rated operational current at a switching frequency of 16 kHz and an ambient air temperature of +40 °C



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| Rated operational current ^{1), 4)} <i>I_e</i> A | Assigned motor rating ^{1), 2), 3)} | | Fitted with Radio interference Brake chopper 7-digital display assembly Local controls | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|--------------------------------------------------------------------------------------------------------|------------|----------------------|----------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | P kW | P HP | | | | | | |
| PowerXL™ DC1 variable frequency drives | | | | | | | | |
| U _e 115 V AC, single-phase / U ₂ 230 V AC, 3-phase The mains voltage of 115 V is raised to 230 V (output voltage) through an internal voltage double connection. Mains voltage (50/60Hz) U _{LN} 110 (-10%) - 115 (+10%) V | | | | | | | | |
| 2.3 | 0.37 | 0.5 | - - ✓ - - - ✓ ✓ | FS1 | IP66/NEMA 4X | DC1-1D2D3NN-A66N 169504 | | 1 off   |
| | | | - - ✓ ✓ | | | DC1-1D2D3NN-A6SN 169505 | | |
| 4.3 | 0.75 | 1 | - - ✓ - - - ✓ ✓ | FS1 | IP66/NEMA 4X | DC1-1D4D3NN-A66N 169507 | | |
| | | | - - ✓ ✓ | | | DC1-1D4D3NN-A6SN 169508 | | |
| 5.8 | 1.1 | 1.5 | - ✓ ✓ - - ✓ ✓ ✓ | FS2 | IP66/NEMA 4X | DC1-1D5D8NB-A66N 169510 | | |
| | | | - ✓ ✓ ✓ | | | DC1-1D5D8NB-A6SN 169511 | | |
| U _e 230 V AC, 1-phase / U ₂ 230 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | |
| 2.3 | 0.37 | 0.5 | - - ✓ - - - ✓ ✓ ✓ - ✓ - ✓ - ✓ ✓ | FS1 | IP66/NEMA 4X | DC1-122D3NN-A66N 169223 | | 1 off   |
| | | | - - ✓ - - - ✓ ✓ | | | DC1-122D3NN-A6SN 169224 | | |
| | | | ✓ - ✓ - ✓ - ✓ ✓ | | | DC1-122D3FN-A66N 169241 | | |
| | | | ✓ - ✓ ✓ | | | DC1-122D3FN-A6SN 169242 | | |
| 4.3 | 0.75 | 1 | - - ✓ - - - ✓ ✓ ✓ - ✓ - ✓ - ✓ ✓ | FS1 | IP66/NEMA 4X | DC1-124D3NN-A66N 169226 | | |
| | | | - - ✓ - - - ✓ ✓ | | | DC1-124D3NN-A6SN 169227 | | |
| | | | ✓ - ✓ - ✓ - ✓ ✓ | | | DC1-124D3FN-A66N 169244 | | |
| | | | ✓ - ✓ ✓ | | | DC1-124D3FN-A6SN 169245 | | |
| 7 | 1.5 | 2 | - - ✓ - - - ✓ ✓ ✓ - ✓ - ✓ - ✓ ✓ - ✓ ✓ - - ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ ✓ ✓ | FS2 | IP66/NEMA 4X | DC1-127D0NN-A66N 169229 | | |
| | | | - - ✓ - - - ✓ ✓ | | | DC1-127D0NN-A6SN 169230 | | |
| | | | ✓ - ✓ - ✓ - ✓ ✓ | | | DC1-127D0FN-A66N 169247 | | |
| | | | ✓ - ✓ ✓ | | | DC1-127D0FN-A6SN 169248 | | |
| | | | - ✓ ✓ - - ✓ ✓ ✓ | | | DC1-127D0NB-A66N 169232 | | |
| | | | - ✓ ✓ ✓ | | | DC1-127D0NB-A6SN 169233 | | |
| | | | ✓ ✓ ✓ - ✓ ✓ ✓ ✓ | | | DC1-127D0FB-A66N 169250 | | |
| | | | ✓ ✓ ✓ ✓ | | | DC1-127D0FB-A6SN 169251 | | |
| 10.5 | 2.2 | 3 | - ✓ ✓ - - ✓ ✓ ✓ ✓ ✓ ✓ - ✓ ✓ ✓ ✓ | FS3 | IP66/NEMA 4X | DC1-12011NB-A66N 169235 | | |
| | | | - ✓ ✓ - - ✓ ✓ ✓ | | | DC1-12011NB-A6SN 169236 | | |
| | | | ✓ ✓ ✓ - ✓ ✓ ✓ ✓ | | | DC1-12011FB-A66N 169253 | | |
| | | | ✓ ✓ ✓ ✓ | | | DC1-12011FB-A6SN 169254 | | |
| 15 ⁵⁾ | 4 | 5 | - ✓ ✓ - - ✓ ✓ ✓ | FS3 | IP66/NEMA 4X | DC1-12015NB-A66N 169238 | | |
| | | | - ✓ ✓ - - ✓ ✓ ✓ | | | DC1-12015NB-A6SN 169239 | | |

Notes



- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
- 3) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- 4) Rated operational current at a switching frequency of 16 kHz and an ambient air temperature of +40 °C
- 5) Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +40 °C



  Information relevant for export to North America → Page 17

| Rated operational current ^{1), 4)} | Assigned motor rating ^{1), 2), 3)} | | Fitted with | | | | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|-------------|--------------------|---------------|----------------------------|------------|----------------------|-----------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | I _e A | P kW | P HP | Radio interference | Brake chopper | 7-digital display assembly | | | | | |
| PowerXL™ DC1 variable frequency drives U _e 230 V AC, 3-phase / U ₂ 230 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 200 (-10%) - 240 (+10%) V | | | | | | | | | | | |
| 2.3 | 0.37 | 0.5 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-322D3NN-A66N 169256 | | 1 off   |
| | | | - | - | ✓ | ✓ | | | DC1-322D3NN-A66SN 169257 | | |
| 4.3 | 0.75 | 1 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-324D3NN-A66N 169259 | | |
| | | | - | - | ✓ | ✓ | | | DC1-324D3NN-A66SN 169260 | | |
| 7 | 1.5 | 2 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-327D0NN-A66N 169262 | | |
| | | | - | - | ✓ | ✓ | | | DC1-327D0NN-A66SN 169263 | | |
| | | | - | ✓ | ✓ | - | FS2 | IP66/NEMA 4X | DC1-327D0NB-A66N 169436 | | |
| | | | - | ✓ | ✓ | ✓ | | | DC1-327D0NB-A66SN 169437 | | |
| | | | ✓ | ✓ | ✓ | - | FS2 | IP66/NEMA 4X | DC1-327D0FB-A66N 169445 | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-327D0FB-A66SN 169446 | | |
| 10.5 | 2.2 | 3 | - | ✓ | ✓ | - | FS2 | IP66/NEMA 4X | DC1-32011NB-A66N 169439 | | |
| | | | - | ✓ | ✓ | ✓ | | | DC1-32011NB-A66SN 169440 | | |
| | | | ✓ | ✓ | ✓ | - | FS2 | IP66/NEMA 4X | DC1-32011FB-A66N 169448 | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-32011FB-A66SN 169449 | | |
| 18 ⁵⁾ | 4 | 5 | - | ✓ | ✓ | - | FS3 | IP66/NEMA 4X | DC1-32018NB-A66N 169442 | | |
| | | | - | ✓ | ✓ | ✓ | | | DC1-32018NB-A66SN 169443 | | |
| | | | ✓ | ✓ | ✓ | - | FS3 | IP66/NEMA 4X | DC1-32018FB-A66N 169451 | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-32018FB-A66SN 169452 | | |

Notes



- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
- 3) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- 4) Rated operational current at a switching frequency of 16 kHz and an ambient air temperature of +40 °C
- 5) Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +40 °C

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| Rated operational current ^{1), 4)} I _e A | Assigned motor rating ^{1), 2), 3)} | | Fitted with | | | | Frame size | Degree of Protection | Part no. Article no. | Price see price list | Std. pack | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------|------------|----------------------|----------------------|----------------------|-----------|---|------------------|--------|
| | P kW | P HP | Radio interference | Brake chopper | 7-digital display assembly | Local controls | | | | | | | | |
| PowerXL™ DC1 variable frequency drives U _e 400 V AC, 3-phase / U ₂ 400 V AC, 3-phase Mains voltage (50/60Hz) U _{LN} 380 (-10%) - 480 (+10%) V | | | | | | | | | | | | | | |
| 2.2 | 0.75 | 1 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-342D2NN-A66N | | 1 off | | | |
| | | | 169454 |   | | | | | | | | | | |
| | | | DC1-342D2NN-A6SN | 169455 | | | | | | | | | | |
| | | | DC1-342D2FN-A66N | 169476 | | | | | | | | | | |
| | | | ✓ | - | ✓ | - | | | DC1-342D2FN-A6SN | 169477 | | | | |
| | | | ✓ | - | ✓ | ✓ | | | | | | | | |
| 4.1 | 1.5 | 2 | - | - | ✓ | - | FS1 | IP66/NEMA 4X | DC1-344D1NN-A66N | | | | | |
| | | | 169457 | | | | | | | | | | | |
| | | | DC1-344D1NN-A6SN | 169458 | | | | | | | | | | |
| | | | DC1-344D1FN-A66N | 169479 | | | | | | | | | | |
| | | | DC1-344D1FN-A6SN | 169480 | | | | | | | | | | |
| | | | - | ✓ | ✓ | - | | | FS2 | | | | DC1-344D1NB-A66N | 169460 |
| | | | - | ✓ | ✓ | ✓ | | | | | | | DC1-344D1NB-A6SN | 169461 |
| | | | ✓ | ✓ | ✓ | - | | | | | | | DC1-344D1FB-A66N | 169482 |
| | | | ✓ | ✓ | ✓ | ✓ | | | | | | | DC1-344D1FB-A6SN | 169483 |
| | | | 5.8 | 2.2 | 3 | - | | | ✓ | | | ✓ | - | FS2 |
| 169463 | | | | | | | | | | | | | | |
| DC1-345D8NB-A6SN | 169464 | | | | | | | | | | | | | |
| DC1-345D8FB-A66N | 169485 | | | | | | | | | | | | | |
| | | | ✓ | ✓ | ✓ | - | | | DC1-345D8FB-A6SN | 169486 | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 9.5 | 4 | 5 | - | ✓ | ✓ | - | FS2 | IP66/NEMA 4X | DC1-349D5NB-A66N | | | | | |
| | | | 169466 | | | | | | | | | | | |
| | | | DC1-349D5NB-A6SN | 169467 | | | | | | | | | | |
| | | | DC1-349D5FB-A66N | 169488 | | | | | | | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-349D5FB-A6SN | 169489 | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 14 ⁵⁾ | 5.5 | 10 | - | ✓ | ✓ | - | FS3 | IP66/NEMA 4X | DC1-34014NB-A66N | | | | | |
| | | | 169469 | | | | | | | | | | | |
| | | | DC1-34014NB-A6SN | 169470 | | | | | | | | | | |
| | | | DC1-34014FB-A66N | 169491 | | | | | | | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-34014FB-A6SN | 169492 | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | |
| 18 ⁵⁾ | 7.5 | 10 | - | ✓ | ✓ | - | FS3 | IP66/NEMA 4X | DC1-34018NB-A66N | | | | | |
| | | | 169472 | | | | | | | | | | | |
| | | | DC1-34018NB-A6SN | 169473 | | | | | | | | | | |
| | | | DC1-34018FB-A66N | 169494 | | | | | | | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | DC1-34018FB-A6SN | 169495 | | | | |
| | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | |

Notes

- 1) Overload cycle: 150 % for 60 s every 600 s
- 2) at 400 V, 50 Hz/at 440 - 480 V, 60 Hz
- 3) for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- 4) Rated operational current at a switching frequency of 16 kHz and an ambient air temperature of +40 °C
- 5) Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +40 °C

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