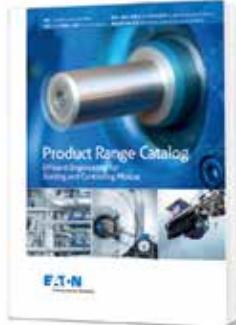




PowerXL – the right drive technology for every application



Our efficient drive solutions are as diverse as the requirements of our customers – from starting motors in simply machines to controlling the speed of complex applications and heavy loads.

The two product families PowerXL and 9000X* cover every application, from speed starters to water-cooled variable frequency drives. The latest additions to the PowerXL family are the DB1 and DM1 variable frequency drives.

Download the catalog:
Eaton.com/catalog



*For further information on the 9000X variable frequency drives, please refer to the relevant product catalog.

PowerXL selection aid Simple project planning and engineering

Thanks to this online selection aid, planning is easy, enabling you to select the right drive for your application, as well as the associated switchgear, protective devices, chokes and filters, in each case with reference to the relevant part numbers.
Eaton.com/tools



PowerXL DE1/DE11 variable speed starter



Power range:

- 0.25 ... 2.2 kW (Ue: 1~ 230 V, U2: 3~ 230 V)
- 0.37 ... 7.5 kW (Ue: 3~ 400 V, U2: 3~ 400 V)

Features:

- Space-saving overall width of 45 mm (frame size 1)
- Out-of-box commissioning without any configuration
- No special drive technology knowledge required
- Can be configured with a screwdriver via the optional DXE-EXT-SET module
- Trip-free design for maximum machine availability
- Suitable for ambient temperatures up to 60 °C



- International standards (CE, UL, cUL, cTick, RoHS)
- DE11: CANopen, plug-in control terminals, configurable output relay
- DE1: Modbus RTU integrated
- Optional communication modules: PROFINET, EtherNet/IP and SmartWire-DT

Commissioning

Easy handling, just like a motor starter

The DE1 variable speed starter does not require any specialized knowledge of drive technology – neither during installation nor commissioning. The handling of the compact variable speed starter is as convenient and simple as that of a motor starter.

You only need to take the device out of the box, wire it like a motor starter, and the DE1 variable speed starter is ready for operation. It couldn't be easier. In addition, out-of-the-box commissioning minimizes the likelihood of installation errors and thus reduces the amount of work and the associated costs compared to previous solutions.



Snap the speed starter onto the top-hat rail.



Connect the main circuits.



Connect the control current.



Switch on the device. The motor will run with variable speed.

Configuration by means of a screwdriver

DXE-EXT-SET plug-in configuration module

In addition to out-of-the-box commissioning, which does not require any prior configuration, you can use the optional DXE-EXT-SET plug-in configuration module to individually adjust the most important parameters (such as the ramp time or the motor protection and control terminal functions) to the needs of your application – simply by using a screwdriver.



PowerXL DC1 variable frequency drive – compact machinery drive



Power range:

- 0.37 ... 0.55 kW (Ue: 1~ 115 V, U2: 1~ 115 V)
- 0.37 ... 1.1 kW (Ue: 1~ 115 V, U2: 3~ 230 V)
- 0.37 ... 1.1 kW (Ue: 1~ 230 V, U2: 1~ 230 V)
- 0.37 ... 4 kW (Ue: 1~ 230 V, U2: 3~ 230 V)
- 0.37 ... 11 kW (Ue: 3~ 230 V, U2: 3~ 230 V)
- 0.75 ... 22 kW (Ue: 3~ 400 V, U2: 3~ 400 V)

Features:

- Fast commissioning thanks to 14 basic parameters
- High overload resistance: 150 % for 60 seconds, 175 % for two seconds.



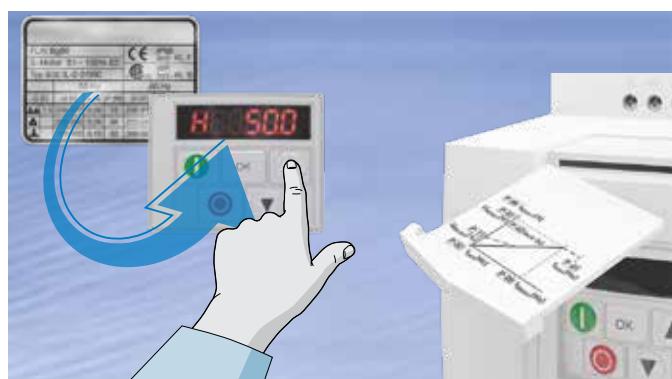
The compact PowerXL variable frequency drive is particularly suitable for basic pump, fan and conveyor belt systems. The device is very quick and easy to configure and commission and thus generates measurable cost savings.

- Ambient temperatures of up to 50 °C without derating
- Integrated Modbus RTU and CANopen
- Optional communication modules: PROFINET, EtherNet/IP and SmartWire-DT
- Degree of protection: IP20 and IP66
- Integrated EMC filter
- Integrated braking transistor
- Integrated PI controller
- V/f control, sensorless vector control, PM motors, BLDC motors, SynRel motors
- Voltage boost
- DC brake
- Removable control terminal block
- International standards (CE, UL, cUL, c-Tick, RoHS, EAC, UkrSEPRO)



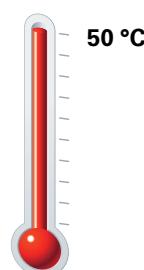
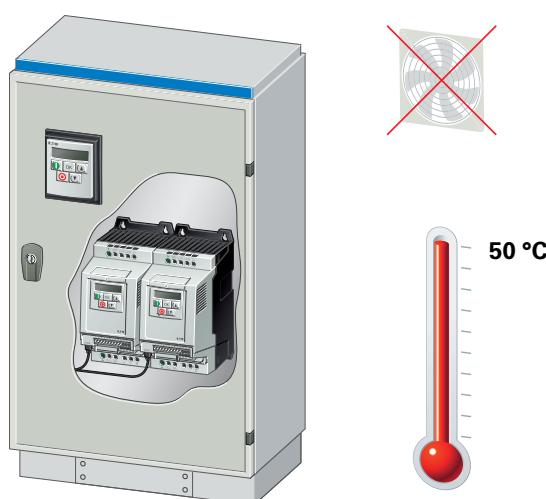
Simply copy the configuration via the COM stick

Using the communication stick, you can easily and quickly transfer parameters from your laptop to the PowerXL drives via Bluetooth. And you can just as easily copy parameter sets from one variable frequency drive to another.



Optimized configuration

The DC1 and DA1 series can be conveniently configured using the input keys. For the DE1, an optional plug-in configuration module is also available. Using the 14 basic parameters, the main data of all devices (such as the motor current, ramp times and the input and output functions) can be quickly and easily adjusted, and applications can be rapidly put into operation. The factory settings of the 14 basic parameters for all DE1, DC1, DA1, DB1 and Rapid Link products enable direct commissioning of the application without any additional configuration changes. The integrated info card further supports quick and easy wiring and commissioning.



No derating at 50 °C

All IP20 devices from the DE1, DC1 and DA1 series support ambient temperatures of up to 50 °C without derating, i.e. the devices can also be operated at their rated current under these conditions. In addition, the devices can be mounted side-by-side to reduce the amount of space required inside the control cabinet.

The benefits at a glance:

- Optimized control cabinet design
- Cost savings, as no additional ventilation/cooling is needed

PowerXL DA1 variable frequency drive – advanced machinery drive



Power range:

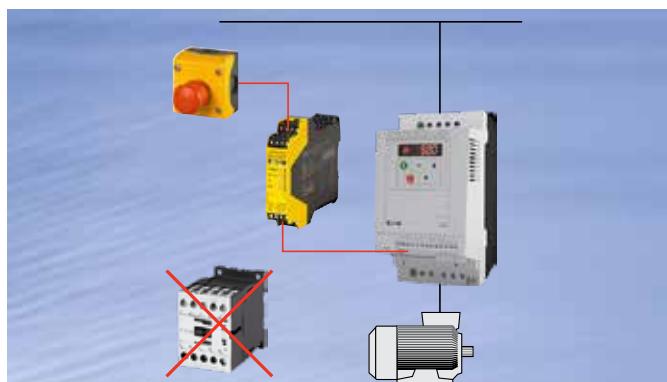
- 0.75 ... 2.2 kW (Ue: 1~ 230 V, U2: 3~ 230 V)
- 0.75 ... 75 kW (Ue: 3~ 230 V, U2: 3~ 230 V)
- 0.75 ... 250 kW (Ue: 3~ 400 V, U2: 3~ 400 V)
- 0.75 ... 110 kW (Ue: 3~ 575 V, U2: 3~ 575 V)

Features:

- High overload resistance: 150 % for 60 seconds, 200 % for four seconds.
- Modbus RTU and CANopen integrated
- Ambient temperatures of up to 50 °C without derating
- Integrated EMC filter

The PowerXL DA1 is a variable frequency drive for the machine building sector. It offers multiple communication protocols, can be tailored to your specific needs thanks to the integrated function block editor (PLC), and features a powerful vector mode for highly dynamic applications.

- Integrated braking transistor
- Various I/O expansions
- V/f control, sensorless and closed-loop vector control, PM motors, BLDC motors, SynRel motors
- Optional fieldbus interfaces
- STO (safe torque off) SIL 2/PI d
- Optional high-resolution OLED display
- International standards (CE, UL, cUL, c-Tick, RoHS, EAC, UkrSEPRO, DNV)



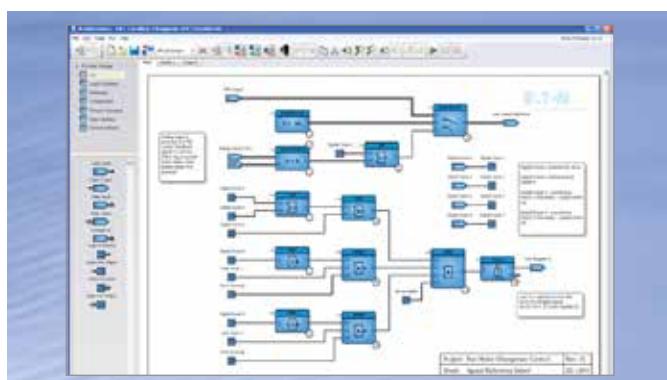
Built-in STO (safe torque off) safety function

With its safe torque off (STO) function, the DA1 drive meets the basic requirements for built-in safety. This ensures that the motor remains torque-free and prevents unintentional start-up, so that there is no need for any additional mains contactor.



Maximum flexibility when it comes to communication

The DE1 series comes with Modbus RTU as the standard integrated communication protocol. In addition, the DC1, DB1 and DA1 series also feature the CANopen protocol. All devices of the DE1, DC1 and DA1 series can be expanded by means of PROFINET, EtherNet/IP and SmartWire-DT modules. Via PROFINET and SmartWire-DT, you can control, configure and diagnose the DE1, DC1 and DA1 variable frequency drives based on the cyclic and acyclic services in the Profidrive profile. The DA1 series comes with an expansion slot for plug-in modules for PROFIBUS, PROFINET, EtherNet/IP, EtherCAT, DeviceNet or Modbus/TCP communication. Function modules are available for connecting the DE1, DC1 and DA1 devices to a PLC or an HMI.



Function block editor – programming made easy

Using the function block editor, you can create your own logical links for the DA1, such as time dependencies within the drive, thus enabling you to generate your own applications. This makes it possible to adapt the drives to any application, cutting down on additional hardware costs in the process.

PowerXL DM1 and DG1 universal variably frequency drives



The DM1 universal variable frequency drives are part of our next-generation PowerXL series. They have been specifically designed for today's demanding applications: Thanks to their energy saving algorithm, high short-circuit rating and rugged design, they offer increased efficiency, safety and reliability.



The DG1 universal variable frequency drives are part of our next-generation PowerXL series. They are specifically designed for modern, demanding applications: Thanks to their patented energy-saving algorithm, high short-circuit ratings and rugged design, they offer increased efficiency, safety and reliability, with additional circuit-board protection (conformal coated) for aggressive environments.

Power range:

- 0.37 - 1.1 kW (115 V)
- 0.55 - 15 kW (230 V)
- 0.75 - 22 kW (400 V)
- 5 - 25 HP (575 V)

Features:

- The integrated web server makes it possible to configure and operate the device without the need to install any additional software.
- The DM1 can also communicate with PowerXpert inControl via Bluetooth, without the need to open the control panel.
- IP20 degree of protection, with optional IP21/NEMA1 kit.

Power range:

- 0.75 - 90 kW (230 V)
- 0.75 - 630 kW (400 V)
- 1 - 800 HP (575 V)



Features:

- 19 setting parameters, including language and time
- Plain text menus and displays
- Best in class communication on board: Modbus RTU & TCP, Bacnet MSTP, EtherNet/IP
- Optional Profinet & Profibus, CANopen, SmartWire-DT interfaces
- Degree of protection: FS0: IP20, FS1-6: IP21 & 54, FS7-8: IP00

Comprehensive functionality

The standard version of the DM1 Pro and the DG1 series cover the power ranges up to 22 kW and 630 kW, respectively. They offer multiple functions, including Modbus RTU, Modbus TCP, Ethernet IP and Bacnet MSTP protocols, an integrated EMC filter (C2 for public grids) and a braking transistor.



Energy saving function



The DM1's active energy control function minimizes energy losses through a patented process that dynamically adjusts the V/f curve to optimize efficiency. Compared to other out-of-the-box solutions, this enables energy savings of 2-10 %.

Energy cost calculator

The integrated energy cost calculator facilitates a direct comparison to conventional contactor-controlled systems. Once the energy costs of the local utility have been entered, it becomes immediately apparent how much money the use of the DM1/DG1 has already saved. This makes it possible to keep operating costs (OPEX) under control at all times.



Multi-pump drives

For water/wastewater applications, different modes are available to control and regulate systems consisting of several pumps. Since the DM1 and the DG1 come with a built-in PID controller for level and pressure control, there is no need for any external controller. They can both be used to control one or more master or back-up drives, while a real-time clock is also available for runtime compensation of all pumps. This level of versatility not only reduces equipment costs but also increases system availability and efficiency.

PowerXpert inControl

The DM1 and the DG1 are also suitable for use in extreme weather conditions. They are heat-resistant up to 50 °C and come with a special cold weather mode that allows them to operate at temperatures as low as -30 °C without the need for any external heating systems. As such, the devices are the perfect choice for outdoor applications involving extremely low temperatures.

Fire mode

If used for fire protection in buildings or sensitive structures such as tunnels, the DM1 and the DG1 can be operated in fire mode. In this mode, internal safety features that would normally shut down the device are disabled to ensure that fire pumps and smoke ventilation systems remain operational. The fire mode can be configured using a comprehensive range of options, including fixed setpoints, switchable setpoint inputs and fail-safe activation.

Manual/automatic operation

Operators can switch between manual and automatic operation by means of a control command or via the keypad, enabling them to intervene in the control system at any time.



Power range:

- 0.37 ... 1.5 kW (Ue: 1~ 230 V, U2: 3~ 230 V)
- 0.75 ... 4 kW (Ue: 3~ 400 V, U2: 3~ 400 V)

Features:

- Optimal integration into existing housings
- 40 % smaller footprint than a comparable drive with active cooling



The DB1 PowerXL brings together all the functions of the established DC1 series while conforming to the smallest IEC-compatible size. Thanks to cold plate technology, this powerful device is the ideal solution for customers who want to integrate frequency drives into existing systems that lack the space for heat sinks or proper ventilation.

Cold plate technology

What is it all about?

The DB1 is a cold plate frequency drive that functions without a heat sink. But how does the technology work? It's simple. The cooling of the electronics is handled by the materials in the enclosure itself. This passive cooling effect is achieved, for example, via the installation plate, the casting parts or the housing directly. A system-specific and therefore flexible integration based on customer needs is thus possible.

- Heat dissipation via the housing material
- Removable control module
- High-efficiency motor control (for IE4 motors)
- Modbus RTU and CANopen on board
- International standards (IEC, cUL, RoHS)

The advantages at a glance

Compact frequency controls

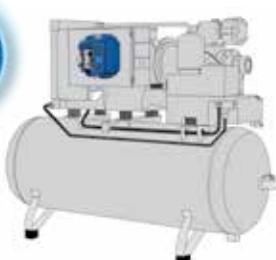
At a height of merely 74 mm (frame size 1), the DB1 is a variable frequency drive in the smallest IEC-compatible class. This compact size is the result of eliminating the need for any display, keypad or heat sink. As such, the DB1 takes up 40 % less space than a comparable frequency drive with active cooling.

What are the advantages of this technology?

By eliminating the heat sink, the devices can be installed even in confined spaces that lack sufficient ventilation. Cabinets or enclosures can be sealed off without any problems, as the materials they contain will themselves conduct the heat away from the device. This makes the devices suitable for use in harsh and demanding environments, including high temperatures or humidity.

A wide range of applications

The Cold Plate unit consists of a power module and a detachable control module. The control module contains several I/O interfaces, as well as ports for CANopen and Modbus-RTU communications. In addition to the COM interface (RJ45), the Modbus protocol is served by data cables that are routed via two control signal terminals. Eaton's Push-in technology simplifies the wiring of the terminals and also saves time during installation.



CANopen  **Modbus** 



Compact installation of the DB1 in motors, pumps and compressors.

As the DB1 is fully compatible with our external keypads, no integrated display or keypad are required.

PowerXL Rapid Link 5 – decentralized electronic drive system

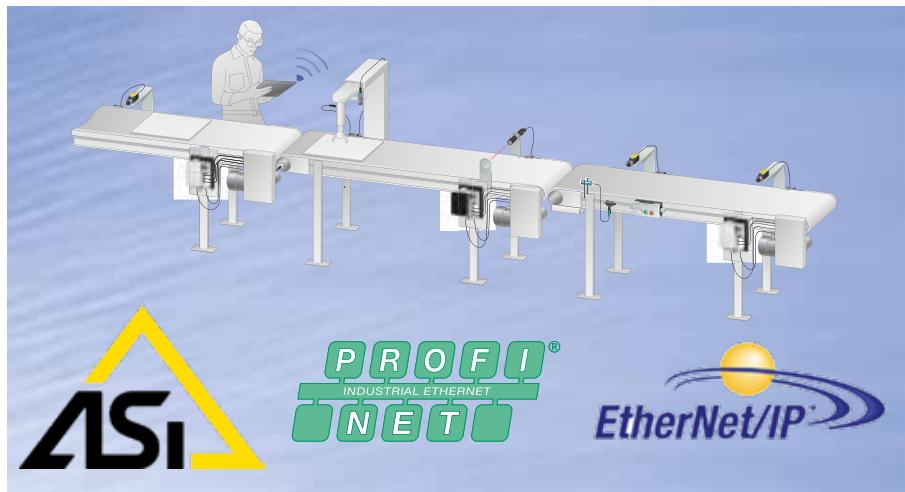


Whether it's baggage handling systems at airports, parcel distribution systems or production logistics: Rapid Link 5 offers the right solution for a wide range of material handling applications. Rapid Link 5, the latest addition to the PowerXL™ family, takes the success of this series (which was first launched in 2004) to the next level by enabling integration into modern Industrial Internet of Things (IIoT) applications.

System features

- Switching, control and protection of 3 AC 400/480 V motors
- Communication via AS-Interface, PROFINET and EtherNet/IP
- The motor starters and variable frequency drives have the same footprint across the entire power range.
- Quick and error-free installation with plug-in connections
- Diagnostic LEDs for fast fault localization
- Same commissioning tools for RAMO5 and RASP5: drivesConnect configuration software for PC, drivesConnect mobile app, OLED keypad, communication/copy stick.

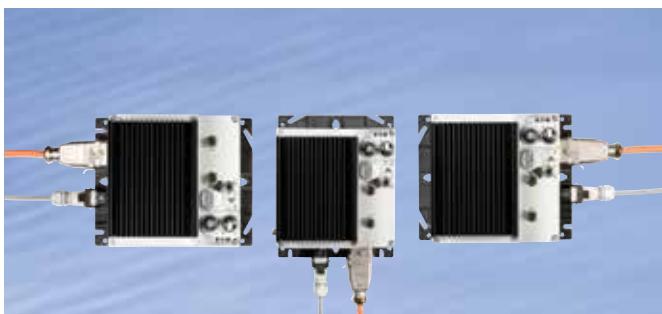
- Integrated manual/automatic mode for easy handling during commissioning and in the event of a fault
- Identical footprint for all types and performances classes
- Sensor inputs for signal transmission via fieldbus or for direct signal processing in the device
- Rapid stop: direct processing of sensor signals within the device without any PLC programming
- Different control voltages for external electromagnetic motor brakes
- Optional integrated switch-disconnector with padlock for interlocking
- Rugged design with IP65/NEMA12 protection for use in harsh environments



Wide range of fieldbus systems

Rapid Link 5 forms an integrated system and covers the AS-Interface, Profinet and Ethernet/IP fieldbus systems. Integration into IIoT solutions is therefore possible without any problems.

The high level of data transparency down to the device level allows for the implementation of remote maintenance and comprehensive power management.



Flexible mounting options

The power supply and the motor connection can be implemented from the right, left or bottom, thanks to the rotatable device base. The installation of the Rapid Link 5 system is flexible and saves space, for optimal alignment with the requirements of the application at hand.

PowerXL RASP5 variable frequency drives



Power range:

- 0.75 kW/1.0 HP Ue: 3 AC 400/480 V, 50/60 Hz le: 2.4 A
- 1.5 kW/2.0 HP Ue: 3 AC 400/480 V, 50/60 Hz le: 4.3 A
- 2.2 kW/3.0 HP Ue: 3 AC 400/480 V, 50/60 Hz le: 5.6 A
- 4.0 kW/5.0 HP Ue: 3 AC 400/480 V, 50/60 Hz le: 8.6 A

Features:

- A single size covers the entire performance range from 0.75 kW to 4 kW
- For operating standard asynchronous motors, high-efficiency permanent magnet motors, synchronous reluctance motors as well as brushless DC motors

- V/f, smart vector and sensorless vector control
- Integrated EMC filter for motor cable lengths up to 25 m
- Integrated braking resistor for dynamic or lifting applications
- Built-in STO (safe torque off) safety function with SIL3/PL e
- Approvals: CE, cUL



RAMO5 electronic motor starter



Power range:

- 0.09 ... 3.0 kW Ue: 3 AC 400 V, 50 Hz le: 6.6 A
- 0.125...4.0 HP Ue: 3 AC 480 V, 60 Hz le: 6.6 A

Features:

- DOL and reversing starter
- Programmable motor protection from 90 W to 3.0 kW (400 V) with only one device
- Service life of more than 10 million cycles
- Approvals: CE, cUL, CCC

Configuration tools

Thanks to the uniform PowerXL tools, the devices can be conveniently and easily configured and diagnosed: via the OLED keypad, the drivesConnect configuration software or a communication stick in combination with the drivesConnect mobile APP.



Eaton's drivesConnect mobile App

Our drivesConnect app turns any smartphone or tablet into a human-machine interface, for easy configuration, control and monitoring.

Download the software and the drivesConnect app
Eaton.com/drivesConnect

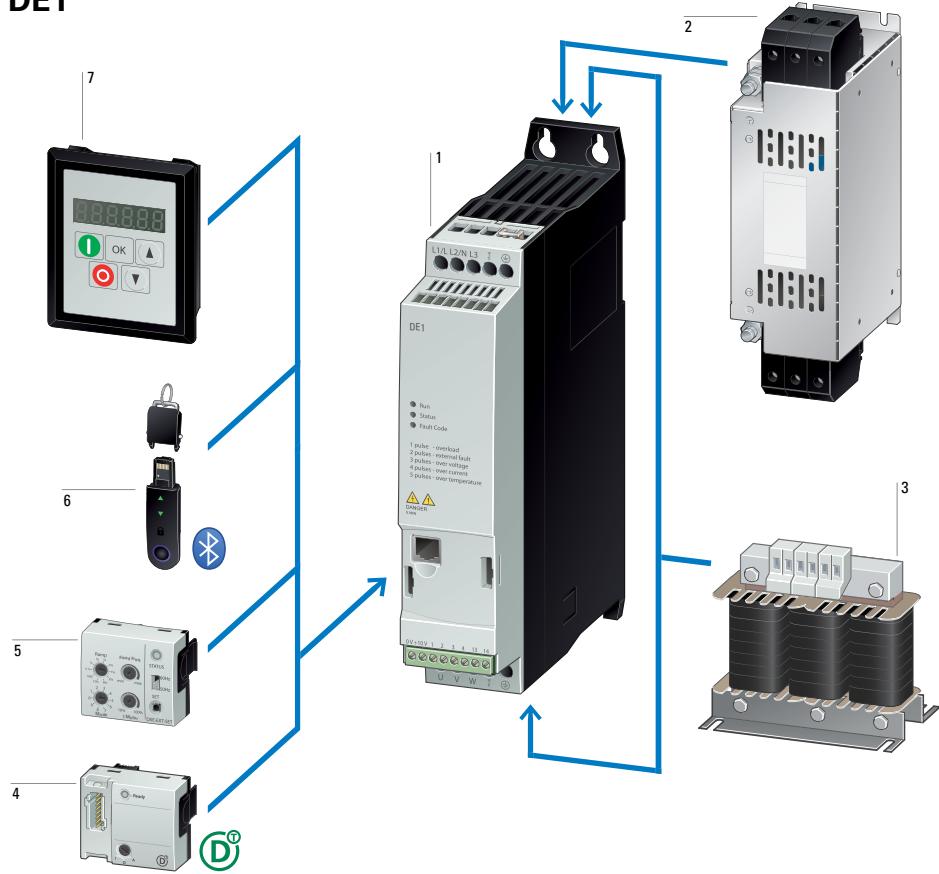


PowerXL DE1 variable speed starters and DC1 variable frequency drives

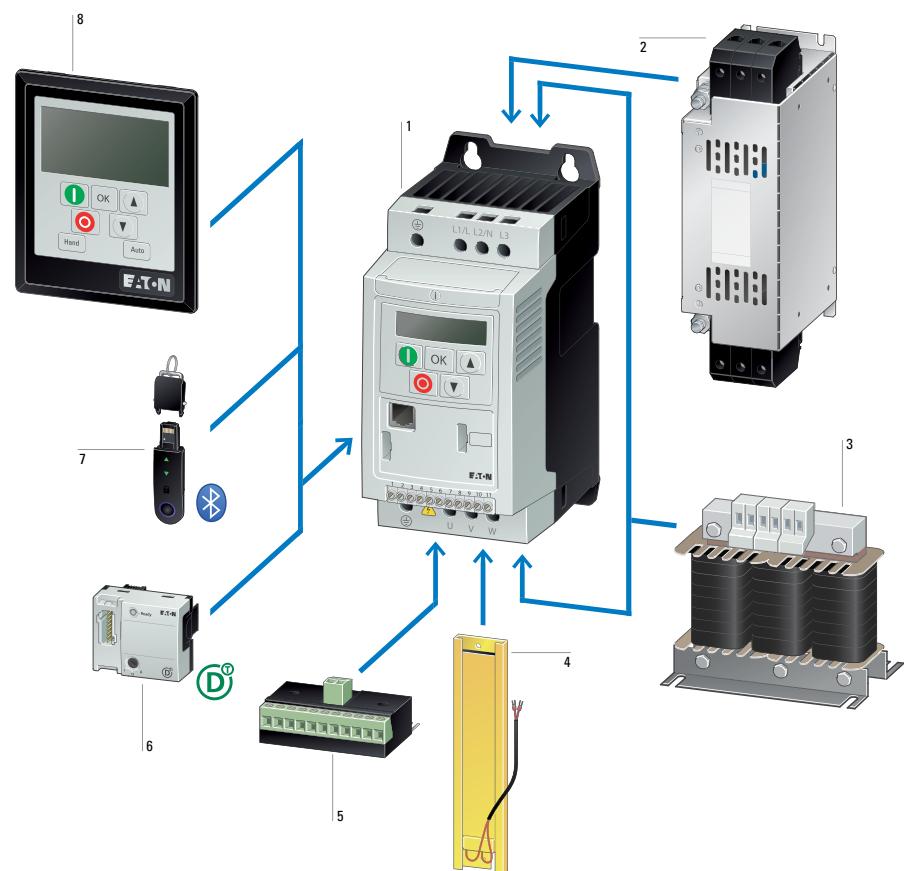
System overview

Moeller series

DE1



DC1

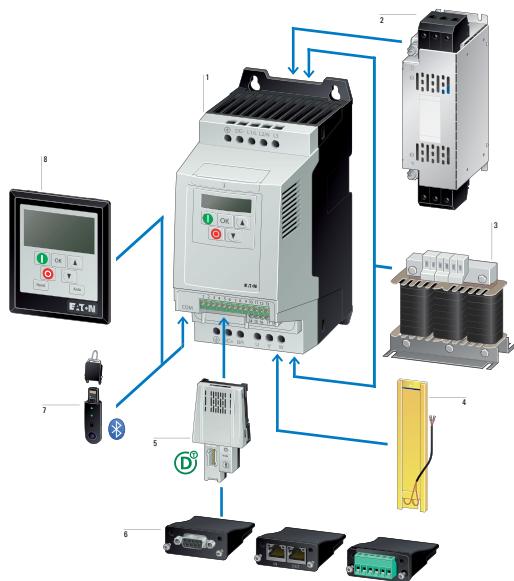


PowerXL DA1, DG1 and DM1/DM1 Pro variable frequency drives

Moeller series

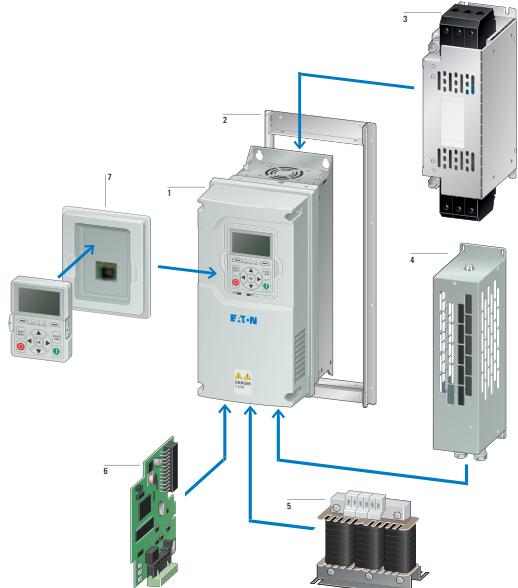
System overview

DA1

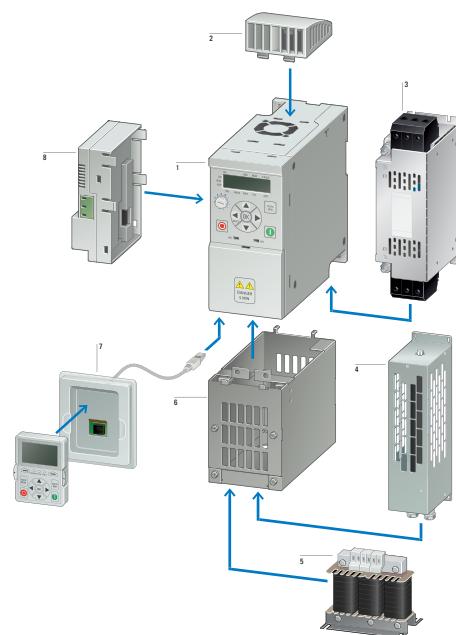


- 1 DA1 variable frequency drive
- 2 Radio interference filter
- 3 Line choke, motor choke, sine filter
- 4 Brake resistor
- 5 SmartWire-DT module
- 6 Communication modules, expansion modules
- 7 Memory and Bluetooth communication stick
- 8 External control unit

DG1



DM1/DM1 Pro



- 1 DM1/DM1 Pro
- 2 + 6 NEMA1/IP21 kits DXM-ACC...
- 3 EMC filters DX-EMC...
- 4 Brake resistors XC-BR...
- 5 Mains and motor chokes DX-LN... and DX-LM...
- 7 Remote keypad kit DXG-KEY-RMTKIT
- 8 Network interfaces DXM-NET...

PowerXL variable speed starters

DE1/DE11, for three-phase motors, 230 V/400 V, IP20

Moeller series

Rated operational current ¹⁾ I _e A	Assigned motor rating ^{1), 2), 3)} P kW	Radio interference filter	Frame size	Degree of protection	Part no.	Article no.
Mains voltage (50/60 Hz) U_{LN}: 200 (-10%) - 240 (+10%) V U _e = 1-phase / U ₂ = 3-phase						
1.4	0.25	0.33	✓	FS1	IP20/NEMA 0	DE1-121D4FN-N20N 174327
2.3	0.37	0.5	✓			DE1-122D3FN-N20N 174328
2.7	0.55	0.5	✓			DE1-122D7FN-N20N 174329
4.3	0.75	1	✓			DE1-124D3FN-N20N 174330
7	1.5	2	✓			DE1-127D0FN-N20N 174331
9.6	2.2	3	✓	FS2		DE1-129D6FN-N20N 174332
Mains voltage (50/60 Hz) U_{LN}: 380 (-10%) - 480 (+10%) V U _e = 3-phase / U ₂ = 3-phase						
1.3	0.37	0.5	✓	FS1	IP20/NEMA 0	DE1-341D3FN-N20N 174333
2.1	0.75	1	✓			DE1-342D1FN-N20N 174334
3.6	1.5	2	✓			DE1-343D6FN-N20N 174335
5	2.2	3	✓			DE1-345D0FN-N20N 174336
6.6	3	3	✓			DE1-346D6FN-N20N 174337
8.5	4	5	✓			DE1-348D5FN-N20N 174338
11.3	5.5	7.5	✓			DE1-34011FN-N20N 174339
16	7.5	10	✓			DE1-34016FN-N20N 174340
Mains voltage (50/60 Hz) U_{LN}: 200 (-10%) - 240 (+10%) V U _e = 1-phase / U ₂ = 3-phase						
1.4	0.25	0.33	✓	FS1	IP20/NEMA 0	DE11-121D4FN-N20N⁴⁾ 180650
2.3	0.37	0.5	✓			DE11-122D3FN-N20N⁴⁾ 180651
2.7	0.55	0.5	✓			DE11-122D7FN-N20N⁴⁾ 180652
4.3	0.75	1	✓			DE11-124D3FN-N20N⁴⁾ 180653
7	1.5	2	✓			DE11-127D0FN-N20N⁴⁾ 180654
9.6	2.2	3	✓	FS2		DE11-129D6FN-N20N⁴⁾ 180655
Mains voltage (50/60 Hz) U_{LN}: 380 (-10%) - 480 (+10%) V U _e = 3-phase / U ₂ = 3-phase						
1.3	0.37	0.5	✓	FS1	IP20/NEMA 0	DE11-341D3FN-N20N⁴⁾ 180662
2.1	0.75	1	✓			DE11-342D1FN-N20N⁴⁾ 180663
3.6	1.5	2	✓			DE11-343D6FN-N20N⁴⁾ 180664
5	2.2	3	✓			DE11-345D0FN-N20N⁴⁾ 180665
6.6	3	3	✓			DE11-346D6FN-N20N⁴⁾ 180666
8.5	4	5	✓			DE11-348D5FN-N20N⁴⁾ 180667
11.3	5.5	7.5	✓			DE11-34011FN-N20N⁴⁾ 180668
16	7.5	10	✓			DE11-34016FN-N20N⁴⁾ 180669

Notes

- ¹⁾ Overload cycle: 150 % for 60 s every 600 s
- ²⁾ DE1/DE11-12... at 230 V, 50 Hz/at 220 - 240 V, 60 Hz
DE1/DE11-34... at 400 V, 50 Hz/at 440 - 480 V, 60 Hz
- ³⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz
- ⁴⁾ The DE11 offers additional features compared to the DE1: CANopen, plug-in control terminals, a configurable output relay



DE1/DE11, FS1



DE1/DE11, FS2

Input/output voltage [V]	Assigned motor rating 1), 2), 3) [kW] [HP]		Input phases	Output phases	Rated operational current ¹⁾	FS	Part no. Article no. IP20 / NEMA 0	Part no. Article no. IP66 / NEMA 4x	Part no. Article no. IP66 / NEMA 4x local control
115	0.37	0.5	1	1	7	1	DC1-S17D0NN-A20CE1 186073		
	0.37	0.5		3	2.3	1	DC1-1D2D3NN-A20CE1 185765	DC1-1D2D3NN-A660E1 199393	DC1-1D2D3NN-A6SOE1 199394
	0.55	0.75		1	10.5	2	DC1-S1011NB-A20CE1 186076		
	0.75	1		3	4.3	1	DC1-1D4D3NN-A20CE1 185768	DC1-1D4D3NN-A660E1 199395	DC1-1D4D3NN-A6SOE1 199396
	1.1	1.5		3	2.3	2	DC1-1D5D8NB-A20CE1 185771	DC1-1D5D8NB-A660E1 199397	DC1-1D5D8NB-A6SOE1 199398
230	0.37	0.5	1	3	2.3	1	DC1-122D3FN-A20CE1 185803	DC1-122D3FN-A660E1 199399	DC1-122D3FN-A6SOE1 199400
	0.75	1		4.3	1		DC1-124D3FN-A20CE1 185806	DC1-124D3FN-A660E1 199401	DC1-124D3FN-A6SOE1 199402
	1.5	2		7	2		DC1-127D0FN-A20CE1 185809	DC1-127D0FN-A660E1 199403	DC1-127D0FN-A6SOE1 199404
	0.37	0.5		3	2.3	1	DC1-1D2D3NN-A20CE1 185765	DC1-1D2D3NN-A660E1 199393	DC1-1D2D3NN-A6SOE1 199394
	0.75	1		4.3	1		DC1-1D4D3NN-A20CE1 185768	DC1-1D4D3NN-A660E1 199395	DC1-1D4D3NN-A6SOE1 199396
	1.1	1.5		2.3	2		DC1-1D5D8NB-A20CE1 185771	DC1-1D5D8NB-A660E1 199397	DC1-1D5D8NB-A6SOE1 199398
	1.5	2		7	2		DC1-127D0FB-A20CE1 185812	DC1-127D0FB-A660E1 199405	DC1-127D0FB-A6SOE1 199406
	2.2	3		10.5	2		DC1-12011FB-A20CE1 185815	DC1-12011FB-A660E1 199407	DC1-12011FB-A6SOE1 199408
	4.0	2.3		2.3	3		DC1-12015NB-A20CE1 185800	DC1-12015FB-A660E1 199409	DC1-12015FB-A6SOE1 199410
	0.37	2.3	3	1			DC1-322D3FN-A20CE1 185818	DC1-322D3FN-A660E1 199411	DC1-322D3FN-A6SOE1 199412
	0.75	2.3		1			DC1-324D3NN-A20CE1 185821	DC1-324D3FN-A660E1 199413	DC1-324D3FN-A6SOE1 199414
	1.5	2.3		1			DC1-327D0NN-A20CE1 185827	DC1-327D0FN-A660E1 199415	DC1-327D0FN-A6SOE1 199416
	1.5	2.3		2			DC1-327D0FB-A20CE1 185836	DC1-327D0FB-A660E1 199417	DC1-327D0FB-A6SOE1 199418
	2.2	2.3		2			DC1-32011FB-A20CE1 185839	DC1-32011FB-A660E1 199419	DC1-32011FB-A6SOE1 199420
	4.0	2.3		3			DC1-32018FB-A20CE1 185842	DC1-32018FB-A660E1 199421	DC1-32018FB-A6SOE1 199422
	5.5	2.3		3			DC1-32024FB-A20CE1 185774	DC1-32024FB-A660E1 199423	DC1-32024FB-A6SOE1 199424
	7.5	2.3		4			DC1-32030FB-A20CE1 185775	DC1-32030FB-A660E1 199425	DC1-32030FB-A6SOE1 199426
	11.0	2.3		4			DC1-32046FB-A20CE1 185776	DC1-32046FB-A660E1 199427	DC1-32046FB-A6SOE1 199428
400	0.75	1	3	3	2.2	1	DC1-342D2FN-A20CE1 185743	DC1-342D2FN-A660E1 199429	DC1-342D2FN-A6SOE1 199430
	1.5	2		3	4.1	1	DC1-344D1FN-A20CE1 185746	DC1-344D1FN-A660E1 199431	DC1-344D1FN-A6SOE1 199432
	1.5	2		3	4.1	1	DC1-344D1FB-A20CE1 185749	DC1-344D1FB-A660E1 199433	DC1-344D1FB-A6SOE1 199434
	2.2	3		3	5.8	2	DC1-345D8FB-A20CE1 185752	DC1-345D8FB-A660E1 199435	DC1-345D8FB-A6SOE1 199436
	4	5		3	9.5	2	DC1-349D5FB-A20CE1 185755	DC1-349D5FB-A660E1 199437	DC1-349D5FB-A6SOE1 199438
	5.5	7.5		3	14	3	DC1-34014FB-A20CE1 185758	DC1-34014FB-A660E1 199439	DC1-34014FB-A6SOE1 199440
	7.5	10		3	18	3	DC1-34018FB-A20CE1 185761	DC1-34018FB-A660E1 199441	DC1-34018FB-A6SOE1 199442
	11	15		3	24	3	DC1-34024FB-A20CE1 185764	DC1-34024FB-A660E1 199443	DC1-34024FB-A6SOE1 199444
	15	20		3	30	4	DC1-34030FB-A20CE1 185780	DC1-34030FB-A660E1 199445	DC1-34030FB-A6SOE1 199446
	18.5	25		3	39	4	DC1-34039FB-A20CE1 185781	DC1-34039FB-A660E1 199447	DC1-34039FB-A6SOE1 199448
	22	30		3	46	4	DC1-34046FB-A20CE1 185782	DC1-34046FB-A660E1 199449	DC1-34046FB-A6SOE1 199450

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

²⁾ DC1-S1... & DC1-1D... at 115 V, 50 Hz/at 110-120 V, 60 Hz DC1-S2...; DC1-12...

& 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 four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800 min-1 at 60 Hz

PowerXL variable frequency drives

DA1, for three-phase motors, 230 V/400 V, IP55/IP66

Moeller series

Rated operational current ¹⁾ [kW] [HP]	Assigned motor rating ^{1), 2), 3)} [kW] [HP]	Input phases	Output phases	Frame size	Part no. Article no. IP20 / NEMA 0	Part no. Article no. IP55 / NEMA 12	Part no. Article no. IP66 / NEMA 4x	Part no. Article no. IP66 / NEMA 4x local control	
U_e 230 V AC, 3-phase / U2 230 V AC, 3-phase, with EMC filter Mains voltage (50/60 Hz) U _{LN} 200 (-15%) - 240 (+10%) V									
4.3	0.75	1	1	3	2	DA1-124D3FB-A20C 169078		DA1-124D3FB-B66C 169347	DA1-124D3FB-B6SC 169348
7	1.5	2	1	3	2	DA1-127D0FB-A20C 169081		DA1-127D0FB-B66C 169349	DA1-127D0FB-B6SC 169350
10.5	2.2	3	1	3	2	DA1-12011FB-A20C 169084		DA1-12011FB-B66C 169351	DA1-12011FB-B6SC 169352
U_e 400 V AC, 3-phase / U2 400 V AC, 3-phase, with EMC filter Mains voltage (50/60 Hz) U _{LN} 380 (-15 %) - 500 (+10%) V									
2.2	0.75	1	3	3	2	DA1-342D2FB-A20C 169117		DA1-342D2FB-B66C 169378	DA1-342D2FB-B6SC 169379
4.1	1.5	2		2	DA1-344D1FB-A20C 169120		DA1-344D1FB-B66C 169380	DA1-344D1FB-B6SC 169381	
5.8	2.2	3		2	DA1-345D8FB-A20C 169051		DA1-345D8FB-B66C 169382	DA1-345D8FB-B6SC 169383	
9.5	4	5		2	DA1-349D5FB-A20C 169054		DA1-349D5FB-B66C 169384	DA1-349D5FB-B6SC 169385	
14	5.5	7.5		3	DA1-34014FB-A20C 169057		DA1-34014FB-B66C 169386	DA1-34014FB-B6SC 169387	
18	7.5	10		3	DA1-34018FB-A20C 169060		DA1-34018FB-B66C 169388	DA1-34018FB-B6SC 169389	
24	11	15		3	DA1-34024FB-A20C 169063				
24	11	15		4		DA1-34024FB-B55C 169390			
30	15	20		4	DA1-34030FB-B20C 197493	DA1-34030FB-B55C 169391			
39	18.5	25		4	DA1-34039FB-B20C 197494	DA1-34039FB-B55C 169392			
46	22	30		4	DA1-34046FB-B20C 197495	DA1-34046FB-B55C 169393			
61	30	40		5	DA1-34061FB-B20C 197496	DA1-34061FB-B55C 169394			
72	37	50		5	DA1-34072FB-B20C 197497	DA1-34072FB-B55C 169395			
90	45	60		6		DA1-34090FB-B55C 169397			
110	55	75		6		DA1-34110FB-B55C 169399			
150	75	125		6		DA1-34150FB-B55C 169401			
180	90	150		6		DA1-34180FB-B55C 169403			
202	110	200		7		DA1-34202FB-B55C 169405			
240	132	200		7		DA1-34240FB-B55C 169407			
302	160	250		7		DA1-34302FB-B55C 169217			
370	200	300		8	DA1-34370FB-B20C 169219				
450	250	350		8	DA1-34450FB-B20C 169221				

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

²⁾ DA1-12...: at 230 V, 50 Hz/at 220-240 V, 60 Hz
DA1-34...: at 400 V, 50 Hz/at 440-480 V, 60 Hz

³⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800 min-1 at 60 Hz

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}	Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}	Features	Frame size	Degree of protection	Part no.	Article no.
I _n = 150%		I _n = 110 %		Radio interference filter Brake chopper 7-segment display				
I _e A	kW HP	I _e A	kW HP					
U_e 230 V AC, 3-phase / U_e 230 V AC, 3-phase, with EMC filter								
Mains voltage (50/60 Hz) U _{LN} : 200 (-15%) - 240 (+10%) V								
1.6	0.25 0.25	3	0.55 0.5	✓ ✓	FS1	IP20/NEMA0	DM1-321D6EB-N20B-EM	3-5017-005A
3	0.55 0.5	4.8	1.1 1	✓ ✓			DM1-323D0EB-N20B-EM	3-5017-006A
4.8	1.1 1	7.8	1.5 2	✓ ✓			DM1-324D8EB-N20B-EM	3-5017-007A
7.8	1.5 2	11	2.2 3	✓ ✓			DM1-327D8EB-N20B-EM	3-5017-008A
11	2.2 3	17.5	4 5	✓ ✓	FS2		DM1-32011EB-N20B-EM	3-5019-003A
17.5	4 5	25	5.5 7.5	✓ ✓			DM1-32017EB-N20B-EM	3-5019-004A
25	5.5 7.5	32	7.5 10	✓ ✓	FS3		DM1-32025EB-N20B-EM	3-5021-002A
32	7.5 10	48	11 15	✓ ✓			DM1-32032EB-N20B-EM	3-5023-003A
48	11 15	61	15 20	✓ ✓	FS4		DM1-32048EB-N20B-EM	3-5023-004A
U_e 400 V AC, 3-phase / U_e 400 V AC, 3-phase, with EMC filter								
Mains voltage (50/60Hz) U _{LN} : 380 (-15%) - 500 (+10%) V								
2.2	0.55 0.5	2.2	0.75 1	✓ ✓	FS1	IP20/NEMA0	DM1-341D5EB-N20B-EM	3-5025-005A
3.3	0.75 1	4.3	1.5 2	✓ ✓			DM1-342D2EB-N20B-EM	3-5025-006A
4.3	1.5 2	5.6	2.2 3	✓ ✓			DM1-344D3EB-N20B-EM	3-5025-007A
5.6	2.2 3	7.6	3 5	✓ ✓			DM1-345D6EB-N20B-EM	3-5025-008A
7.6	3 5	12	5.5 7.5	✓ ✓	FS2		DM1-347D6EB-N20B-EM	3-5027-004A
12	5.5 7.5	16	7.5 10	✓ ✓			DM1-34012EB-N20B-EM	3-5027-005A
16	7.5 10	23	11 15	✓ ✓			DM1-34016EB-N20B-EM	3-5027-006A
23	11 15	31	15 20	✓ ✓	FS3		DM1-34023EB-N20B-EM	3-5029-002A
31	15 20	38	18.5 25	✓ ✓			DM1-34031EB-N20B-EM	3-5031-003A
38	18.5 25	46	22 30	✓ ✓	FS4		DM1-34038EB-N20B-EM	3-5031-004A
U_e 115 V AC, 1-phase / U_e 230 V AC, 3-phase, with EMC filter								
Mains voltage (50/60Hz) U _{LN} : 100 (-15%) - 120 (+10%) V								
1.6	0.18 0.25	3	0.37 0.5	✓ ✓ ✓	FS1	IP20/NEMA0	DM1-111D6EB-S20S-EM	3-5041-003A
3	0.37 0.5	4.8	0.55 1	✓ ✓ ✓ ✓			DM1-113D0EB-S20S-EM	3-5041-004A
4.8	0.55 1	6.9	0.75 1.5	✓ ✓ ✓ ✓	FS2		DM1-114D8EB-S20S-EM	3-5043-003A
6.9	0.75 1.5	7.8	1.1 2	✓ ✓ ✓ ✓			DM1-116D9EB-S20S-EM	3-5043-004A
U_e 230 V AC, 1-phase / U_e 230 V AC, 3-phase, with EMC filter								
Mains voltage (50/60Hz) U _{LN} : 200 (-15%) - 240 (+10%) V								
1.6	0.25 0.25	3	0.55 0.5	✓ ✓ ✓	FS1	IP20/NEMA0	DM1-121D6EB-S20S-EM	3-5045-004A
3	0.55 0.5	4.8	1.1 1	✓ ✓ ✓			DM1-123D0EB-S20S-EM	3-5045-005A
4.8	1.1 1	7.8	1.5 2	✓ ✓ ✓			DM1-124D8EB-S20S-EM	3-5045-006A
7.8	1.5 2	11	2.2 3	✓ ✓ ✓	FS2		DM1-127D8EB-S20S-EM	3-5047-003A
11	2.2 3	17.5	4 5	✓ ✓ ✓			DM1-12011EB-S20S-EM	3-5047-004A
17.5	4 5	25	5.5 7.5	✓ ✓ ✓	FS3		DM1-12017EB-S20S-EM	3-5049-002A

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

²⁾ DA1-12...: at 230 V, 50 Hz/at 220-240 V, 60 Hz

DA1-34...: at 400 V, 50 Hz/at 440-480 V, 60 Hz

³⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

PowerXL variable frequency drives

DM1, for three-phase motors, 230 V/400 V/575 V, IP20

Moeller series

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}	Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}	Features	Frame size	Degree of protection	Part no.	Article no.		
I _n = 150%		I _n = 110 %		Radio interference filter Brake chopper 7-segment display						
I _e A	kW HP	I _e A	kW HP							
U_e 230 V AC, 3-phase / U₂ 230 V AC, 3-phase, with EMC filter										
Mains voltage (50/60 Hz) U _{LN} : 200 (-15%) - 240 (+10%) V										
1.6	0.25	0.25	3	0.55	0.5	✓ ✓ ✓	FS1	IP20/NEMA0	DM1-321D6EB-S20S-EM	3-5001-005A
3	0.55	0.5	4.8	1.1	1	✓ ✓ ✓			DM1-323D0EB-S20S-EM	3-5001-006A
4.8	1.1	1	7.8	1.5	2	✓ ✓ ✓			DM1-324D8EB-S20S-EM	3-5001-007A
7.8	1.5	2	11	2.2	3	✓ ✓ ✓			DM1-327D8EB-S20S-EM	3-5001-008A
11	2.2	3	17.5	4	5	✓ ✓ ✓	FS2		DM1-32011EB-S20S-EM	3-5003-003A
17.5	4	5	25	5.5	7.5	✓ ✓ ✓			DM1-32017EB-S20S-EM	3-5003-004A
25	5.5	7.5	32	7.5	10	✓ ✓ ✓	FS2		DM1-32025EB-S20S-EM	3-5005-002A
32	7.5	10	48	11	15	✓ ✓ ✓	FS4		DM1-32032EB-S20S-EM	3-5007-003A
48	11	15	61	15	20	✓ ✓ ✓			DM1-32048EB-S20S-EM	3-5007-004A
U_e 400 V AC, 3-phase / U₂ 400 V AC, 3-phase, with EMC filter										
Mains voltage (50/60 Hz) U _{LN} : 380 (-15%) - 500 (+10%) V										
1.5	0.55	0.5	2.2	0.75	1	✓ ✓ ✓	FS1	IP20/NEMA0	DM1-341D5EB-S20S-EM	3-5009-005A
2.2	0.75	1	4.3	1.5	2	✓ ✓ ✓			DM1-342D2EB-S20S-EM	3-5009-006A
4.3	1.5	2	5.6	2.2	3	✓ ✓ ✓			DM1-344D3EB-S20S-EM	3-5009-007A
5.6	2.2	3	7.6	3	5	✓ ✓ ✓			DM1-345D6EB-S20S-EM	3-5009-008A
7.6	3	5	12	5.5	7.5	✓ ✓ ✓	FS2		DM1-347D6EB-S20S-EM	3-5011-004A
12	5.5	7.5	16	7.5	10	✓ ✓ ✓			DM1-34012EB-S20S-EM	3-5011-005A
16	7.5	10	23	11	15	✓ ✓ ✓			DM1-34016EB-S20S-EM	3-5011-006A
23	11	15	31	15	20	✓ ✓ ✓	FS3		DM1-34023EB-S20S-EM	3-5013-002A
31	15	20	38	18.5	25	✓ ✓ ✓	FS4		DM1-34031EB-S20S-EM	3-5015-003A
38	18.5	25	46	22	30	✓ ✓ ✓			DM1-34038EB-S20S-EM	3-5015-004A
U_e 575 V AC, 3-phase / U₂ 575 V AC, 3-phase, with EMC filter										
Mains voltage (50/60 Hz) U _{LN} : 525 (-15%) - 600 (+10%) V										
4.5	2.2	3	7.5	4	5	✓ ✓	FS2	IP20/NEMA0	DM1-354D5EB-S20S-EM	3-5060-004A
7.5	4	5	10	5.5	7.5	✓ ✓			DM1-357D5EB-S20S-EM	3-5060-005A
10	5.5	7.5	13.5	7.5	10	✓ ✓			DM1-35010EB-S20S-EM	3-5060-006A
13.5	7.5	10	18	11	15	✓ ✓	FS3		DM1-35013EB-S20S-EM	3-5061-002A
18	11	15	22	15	20	✓ ✓	FS4		DM1-35018EB-S20S-EM	3-5062-003A
22	15	20	27	18.5	25	✓ ✓			DM1-35022EB-S20S-EM	3-5062-004A

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

²⁾ DA1-12...: at 230 V, 50 Hz/at 220-240 V, 60 Hz

DA1-34...: at 400 V, 50 Hz/at 440-480 V, 60 Hz

³⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

PowerXL variable frequency drives

Moeller series

DG1, for three-phase motors, 400 V, IP21

Rated operational current ¹⁾	Assigned motor rating ^{1),2),3)}	Rated operational current ¹⁾	Assigned motor rating ^{1),2),3)}	Features				Frame size	Degree of protection	Part no.	Article no.
I _H = 150 %	I _H = 150 % I _H = 150 %	I _L = 110 %	I _L = 110 % I _L = 110 %	Radio interference filter	Brake chopper	DC link choke	Multiline graphic display				
I _e A	P kW	P HP	I _e A	P kW	P HP		Additional PCB protection				
Mains voltage (50/60 Hz) U_N: 380 (-15%) - 500 (+10%) V											
U _e = 3-phase / U ₂ = 3-phase											
2.2	0.75	1	3.3	1.1	1.5	✓ ✓ - ✓ ✓		FS0	IP20	DG1-342D2EB-C20C	9702-0200
3.3	1.1	1.5	4.3	1.5	2	✓ ✓ - ✓ ✓				DG1-343D3EB-C20C	9702-0201
4.3	1.5	2	5.6	2.2	3	✓ ✓ - ✓ ✓				DG1-344D3EB-C20C	9702-0202
5.6	2.2	3	7.6	3	5	✓ ✓ - ✓ ✓				DG1-345D6EB-C20C	9702-0203
2.2	0.75	1	3.3	1.1	1.5	✓ ✓ - ✓ ✓		FS1	IP21/ NEMA1	DG1-342D2FB-C21C	9702-1002-00P
3.3	1.1	1.5	4.3	1.5	2	✓ ✓ ✓ ✓ ✓				DG1-343D3FB-C21C	9702-1004-00P
4.3	1.5	2	5.6	2.2	3	✓ ✓ ✓ ✓ ✓				DG1-344D3FB-C21C	9702-1006-00P
5.6	2.2	3	7.6	3	5	✓ ✓ ✓ ✓ ✓				DG1-345D6FB-C21C	9702-1008-00P
7.6	3	5	9	4	5	✓ ✓ ✓ ✓ ✓				DG1-347D6FB-C21C	9702-1001-00P
9	4	5	12	5.5	7.5	✓ ✓ ✓ ✓ ✓				DG1-349D0FB-C21C	9702-1011-00P
12	5.5	7.5	16	7.5	10	✓ ✓ ✓ ✓ ✓		FS2		DG1-34012FB-C21C	9702-2002-00P
16	7.5	10	23	11	15	✓ ✓ ✓ ✓ ✓				DG1-34016FB-C21C	9702-2004-00P
23	11	15	31	15	20	✓ ✓ ✓ ✓ ✓				DG1-34023FB-C21C	9702-2001-00P
31	15	20	38	18.5	25	✓ ✓ ✓ ✓ ✓		FS3		DG1-34031FB-C21C	9702-3002-00P
38	18.5	25	46	22	30	✓ ✓ ✓ ✓ ✓				DG1-34038FB-C21C	9702-3004-00P
46	22	30	61	30	40	✓ ✓ ✓ ✓ ✓				DG1-34046FB-C21C	9702-3001-00P
61	30	40	72	37	50	✓ ✓ ✓ ✓ ✓		FS4		DG1-34061FB-C21C	9702-4002-00P
72	37	50	87	45	60	✓ ✓ ✓ ✓ ✓				DG1-34072FB-C21C	9702-4006-00P
87	45	60	105	55	75	✓ ✓ ✓ ✓ ✓				DG1-34087FB-C21C	9702-4010-00P
105	55	75	140	75	100	✓ ✓ ✓ ✓ ✓		FS5		DG1-34105FB-C21C	9702-5002-00P
140	75	100	170	90	125	✓ ✓ ✓ ✓ ✓				DG1-34140FB-C21C	9702-5006-00P
170	90	125	205	110	150	✓ ✓ ✓ ✓ ✓				DG1-34170FB-C21C	9702-5010-00P
205	110	150	261	132	200	✓ ✓ ✓ ✓ ✓		FS6		DG1-34205FB-C21C	9702-6001-00P
245	132	200	310	160	250	✓ ✓ ✓ ✓ ✓				DG1-34245FB-C21C	9702-6005-00P
310	160	250	385	200	300	✓ ✓ ✓ ✓ ✓		FS7	IP00	DG1-34310FB-C21C	3-4917-102A
385	200	300	460	250	350	✓ ✓ ✓ ✓ ✓				DG1-34385FB-C21C	3-4917-104A
460	250	350	520	250	450	✓ ✓ ✓ ✓ ✓				DG1-34460FB-C21C	3-4917-106A

Notes: ¹⁾ Overload cycle for 60 s every 600 s,

²⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min⁻¹ at 50 Hz or 1800 min⁻¹ at 60 Hz

³⁾ DG1-34... at 400 V, 50 Hz at 480 V, 60 Hz

Mains voltage (50/60Hz) U _N : 380 (-15%) - 500 (+10%) V, without brake chopper							
U _e = 3-phase / U ₂ = 3-phase							
61	30	40	72	37	50	✓ - ✓ ✓ ✓	FS4
72	37	50	87	45	60	✓ - ✓ ✓ ✓	IP21/ NEMA1
87	45	60	105	55	75	✓ - ✓ ✓ ✓	
105	55	75	140	75	100	✓ - ✓ ✓ ✓	FS5
140	75	100	170	90	125	✓ - ✓ ✓ ✓	
170	90	125	205	110	150	✓ - ✓ ✓ ✓	FS6
205	110	150	261	132	200	✓ - ✓ ✓ ✓	
245	132	200	310	160	250	✓ - ✓ ✓ ✓	
310	160	250	385	200	300	✓ - ✓ ✓ ✓	FS7
385	200	300	460	250	350	✓ - ✓ ✓ ✓	
460	250	350	520	250	450	✓ - ✓ ✓ ✓	

PowerXL cold plate unit

DB1 for three-phase motors, 230 V/400 V, IP20

Moeller series

Rated operational current ¹⁾	Assigned motor rating ^{1), 2), 3)}		Radio interference filter	Brake chopper	Frame size	Degree of protection	Part no.	Article no.
I _e A	P kW	P HP						
Mains voltage (50/60 Hz) U_{LN} 110 (-10%) - 115 (+10%) V U _e = 1-phase / U ₂ = 3-phase								
3.2	0.75	1.00	✓	-	FS1	IP20/NEMA 0	DB1-1D3D2FN-N2CC	199347
Mains voltage (50/60 Hz) U_{LN} 110 (-10%) - 240 (+10%) V U _e = 1-phase / U ₂ = 3-phase								
4.3	0.75	1.00	✓	-	FS1C	IP20/NEMA 0	DB1-1M4D3FN-N2CC-PFC	199738
Mains voltage (50/60 Hz) U_{LN} 200 (-10%) - 240 (+10%) V U _e = 1-phase / U ₂ = 3-phase								
2.3	0.37	0.50	✓	-	FS1	IP20/NEMA 0	DB1-122D3FN-N2CC	197193
4.3	0.75	1	✓	-			DB1-124D3FN-N2CC	197194
7	1.5	2	✓	-	FS1B		DB1-127D0FN-N2CC	197195
7	1.5	2	✓	-	FS1C		DB1-127D0FN-N2CC-PFC	199739
Mains voltage (50/60 Hz) U_{LN} 200 (-10%) - 240 (+10%) V U _e = 3-phase / U ₂ = 3-phase								
2.3	0.37	0.50	✓	-	FS1	IP20/NEMA 0	DB1-322D3FN-N2CC	199735
4.3	0.75	1	✓	-			DB1-324D3FN-N2CC	199736
7	1.5	2	✓	-			DB1-327D0FN-N2CC	199737
Mains voltage (50/60 Hz) U_{LN} 380 (-10%) - 480 (+10%) V U _e = 3-phase / U ₂ = 3-phase								
2.2	0.75	1	✓		FS1	IP20/NEMA 0	DB1-342D2FN-N2CC	197196
4.1	1.5	2	✓				DB1-344D1FN-N2CC	197197
4.1	1.5	2	✓		FS2		DB1-344D1FB-N2CC	197564
5.8	2.2	3	✓				DB1-345D8FB-N2CC	197565
9.5	4	5	✓				DB1-349D5FB-N2CC	197566

Notes: ¹⁾ Overload cycle for 60 s every 600 s

²⁾ DB1-1D...: at 115 V, 50 Hz/at 110 – 120 V, 60 Hz

DB1-1M...: at 115 – 230 V, 50 Hz/at 110 – 240 V, 60 Hz

DB1-12... & DB1-32...: at 230 V, 50 Hz/at 220 – 240 V, 60 Hz

DB1-34...: at 400 V, 50 Hz/at 440 – 480 V, 60 Hz

³⁾ For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800-1 at 60 Hz



DB1, FS1



DB1, FS2

AS-Interface profile: S7.4 for 31 stations

RAMO5 motor starter

Rated operational current ¹⁾	Assigned motor rating ^{2),3)}	Control voltage External brake ⁴⁾	Inputs/outputs	DOL starter		Reversing starter			
				Without repair switch	With repair switch	Without repair switch	With repair switch		
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
6.6	0.09-3	0.125-4	-	2	0	RAMO5-D200A31-4120S1 199060	RAMO5-D200A31-412RS1 199069	RAMO5-W200A31-4120S1 199080	RAMO5-W200A31-412RS1 199099
				2	1			RAMO5-W210A31-4120S1 199084	RAMO5-W210A31-412RS1 199103
			180/207 V DC	2	0	RAMO5-D201A31-4120S1 199061	RAMO5-D201A31-412RS1 199070	RAMO5-W201A31-4120S1 199081	RAMO5-W201A31-412RS1 199100
				2	1			RAMO5-W211A31-4120S1 199085	RAMO5-W211A31-412RS1 199104
			230/277 V DC	2	0	RAMO5-D202A31-4120S1 199062	RAMO5-D202A31-412RS1 199071	RAMO5-W202A31-4120S1 199082	RAMO5-W202A31-412RS1 199101
				2	1			RAMO5-W212A31-4120S1 199086	RAMO5-W212A31-412RS1 199105
			400/480 V AC	2	0	RAMO5-D204A31-4120S1 199063	RAMO5-D204A31-412RS1 199072	RAMO5-W204A31-4120S1 199083	RAMO5-W204A31-412RS1 199102
				2	1			RAMO5-W214A31-4120S1 199087	RAMO5-W214A31-412RS1 199106

RASP5 variable frequency drive

Rated operational current ¹⁾	Assigned motor rating ^{2),3)}	Control voltage External brake ⁴⁾	Inputs/outputs	Without integrated brake resistor		With integrated brake resistor			
				Without repair switch	With repair switch	Without repair switch	With repair switch		
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
2.4	0.75	1	-	4	0	RASP5-2400A31-4120000S1 198728	RASP5-2400A31-412R000S1 198744	RASP5-2400A31-4120100S1 198732	RASP5-2400A31-412R100S1 198748
			180/207 V DC	4	0	RASP5-2401A31-4120000S1 198729	RASP5-2401A31-412R000S1 198745	RASP5-2401A31-4120100S1 198733	RASP5-2401A31-412R100S1 198749
			230/277 V DC	4	0	RASP5-2402A31-4120000S1 198730	RASP5-2402A31-412R000S1 198746	RASP5-2402A31-4120100S1 198734	RASP5-2402A31-412R100S1 198750
			400/480 V AC	4	0	RASP5-2404A31-4120000S1 198731	RASP5-2404A31-412R000S1 198747	RASP5-2404A31-4120100S1 198735	RASP5-2404A31-412R100S1 198751
4.3	1.5	2	-	4	0	RASP5-4400A31-4120000S1 198764	RASP5-4400A31-412R000S1 198780	RASP5-4400A31-4120100S1 198768	RASP5-4400A31-412R100S1 198784
			180/207 V DC	4	0	RASP5-4401A31-4120000S1 198765	RASP5-4401A31-412R000S1 198781	RASP5-4401A31-4120100S1 198769	RASP5-4401A31-412R100S1 198785
			230/277 V DC	4	0	RASP5-4402A31-4120000S1 198766	RASP5-4402A31-412R000S1 198782	RASP5-4402A31-4120100S1 198770	RASP5-4402A31-412R100S1 198786
			400/480 V AC	4	0	RASP5-4404A31-4120000S1 198767	RASP5-4404A31-412R000S1 198783	RASP5-4404A31-4120100S1 198771	RASP5-4404A31-412R100S1 198787
5.6	2.2	3	-	4	0	RASP5-5400A31-4120000S1 198800	RASP5-5400A31-412R000S1 198816	RASP5-5400A31-4120100S1 198804	RASP5-5400A31-412R100S1 198820
			180/207 V DC	4	0	RASP5-5401A31-4120000S1 198801	RASP5-5401A31-412R000S1 198817	RASP5-5401A31-4120100S1 198805	RASP5-5401A31-412R100S1 198821
			230/277 V DC	4	0	RASP5-5402A31-4120000S1 198802	RASP5-5402A31-412R000S1 198818	RASP5-5402A31-4120100S1 198806	RASP5-5402A31-412R100S1 198822
			400/480 V AC	4	0	RASP5-5404A31-4120000S1 198803	RASP5-5404A31-412R000S1 198819	RASP5-5404A31-4120100S1 198807	RASP5-5404A31-412R100S1 198823
8.5	4	5	-	4	0	RASP5-8400A31-4120000S1 198836	RASP5-8400A31-412R000S1 198852	RASP5-8400A31-4120100S1 198840	RASP5-8400A31-412R100S1 198856
			180/207 V DC	4	0	RASP5-8401A31-4120000S1 198837	RASP5-8401A31-412R000S1 198853	RASP5-8401A31-4120100S1 198841	RASP5-8401A31-412R100S1 198857
			230/277 V DC	4	0	RASP5-8402A31-4120000S1 198838	RASP5-8402A31-412R000S1 198854	RASP5-8402A31-4120100S1 198842	RASP5-8402A31-412R100S1 198858
			400/480 V AC	4	0	RASP5-8404A31-4120000S1 198839	RASP5-8404A31-412R000S1 198855	RASP5-8404A31-4120100S1 198843	RASP5-8404A31-412R100S1 198859

Notes

- 1) Adjustable from 0.3 - 6.6
- 2) For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) At 400 V, 50 Hz
at 440-480 V, 60 Hz
- 4) For controlling motors with mechanical brakes
- 5) Operation with external 24 V DC supply

PowerXL Rapid Link

RAMO5/RASP5 for Profinet

Moeller series

Profinet

RAMO5 motor starter

Rated operational current ¹⁾	Assigned motor rating ^{2), 3)}	Control voltage External brake ⁴⁾	Inputs/ outputs	DOL starter		Reversing starter				
				Without repair switch	With repair switch	Without repair switch	With repair switch			
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.	
6.6	0.09-3	0.125-4	-	4	2	RAMO5-D420PNT-4120S1 199125	RAMO5-D420PNT-412RS1 199129	RAMO5-W420PNT-4120S1 199133	RAMO5-W420PNT-412RS1 199137	
				180/207 V DC	4	2	RAMO5-D421PNT-4120S1 199126	RAMO5-D421PNT-412RS1 199130	RAMO5-W421PNT-4120S1 199134	RAMO5-W421PNT-412RS1 199138
				230/277 V DC	4	2	RAMO5-D422PNT-4120S1 199127	RAMO5-D422PNT-412RS1 199131	RAMO5-W422PNT-4120S1 199135	RAMO5-W422PNT-412RS1 199139
				400/480 V AC	4	2	RAMO5-D424PNT-4120S1 199128	RAMO5-D424PNT-412RS1 199132	RAMO5-W424PNT-4120S1 199136	RAMO5-W424PNT-412RS1 199140

RASP5 variable frequency drive

Rated operational current ¹⁾	Assigned motor rating ^{2), 3)}	Control voltage External brake ⁴⁾	Inputs/ outputs	Without integrated brake resistor		With integrated brake resistor				
				Without repair switch	With repair switch	Without repair switch	With repair switch			
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.	
2.4	0.75	1	-	4	2	RASP5-2420PNT-412000S1 198932	RASP5-2420PNT-412R000S1 198948	RASP5-2420PNT-4120100S1 198936	RASP5-2420PNT-412R100S1 198952	
				180/207 V DC	4	2	RASP5-2421PNT-412000S1 198933	RASP5-2421PNT-412R000S1 198949	RASP5-2421PNT-4120100S1 198937	RASP5-2420PNT-412R100S1 198953
				230/277 V DC	4	2	RASP5-2422PNT-412000S1 198934	RASP5-2422PNT-412R000S1 198950	RASP5-2422PNT-4120100S1 198938	RASP5-2421PNT-412R100S1 198954
				400/480 V AC	4	2	RASP5-2424PNT-412000S1 198935	RASP5-2424PNT-412R000S1 198951	RASP5-2424PNT-4120100S1 198939	RASP5-2422PNT-412R100S1 198955
4.3	1.5	2	-	4	2	RASP5-4420PNT-412000S1 198964	RASP5-4420PNT-412R000S1 198980	RASP5-4420PNT-4120100S1 198968	RASP5-2424PNT-412R100S1 198984	
				180/207 V DC	4	2	RASP5-4421PNT-412000S1 198965	RASP5-4421PNT-412R000S1 198981	RASP5-4421PNT-4120100S1 198969	RASP5-4420PNT-412R100S1 198985
				230/277 V DC	4	2	RASP5-4422PNT-412000S1 198966	RASP5-4422PNT-412R000S1 198982	RASP5-4422PNT-4120100S1 198970	RASP5-4421PNT-412R100S1 198986
				400/480 V AC	4	2	RASP5-4424PNT-412000S1 198967	RASP5-4424PNT-412R000S1 198983	RASP5-4424PNT-4120100S1 198971	RASP5-4422PNT-412R100S1 198987
5.6	2.2	3	-	4	2	RASP5-5420PNT-412000S1 198996	RASP5-5420PNT-412R000S1 199012	RASP5-5420PNT-4120100S1 199000	RASP5-4424PNT-412R100S1 199016	
				180/207 V DC	4	2	RASP5-5421PNT-412000S1 198997	RASP5-5421PNT-412R000S1 199013	RASP5-5421PNT-4120100S1 199001	RASP5-5420PNT-412R100S1 199017
				230/277 V DC	4	2	RASP5-5422PNT-412000S1 198998	RASP5-5422PNT-412R000S1 199014	RASP5-5422PNT-4120100S1 199002	RASP5-5421PNT-412R100S1 199018
				400/480 V AC	4	2	RASP5-5424PNT-412000S1 198999	RASP5-5424PNT-412R000S1 199015	RASP5-5424PNT-4120100S1 199003	RASP5-5422PNT-412R100S1 199019
8.5	4	5	-	4	2	RASP5-8420PNT-412000S1 199028	RASP5-8420PNT-412R001S1 199044	RASP5-8420PNT-4120101S1 199032	RASP5-8420PNT-412R101S1 199048	
				180/207 V DC	4	2	RASP5-8421PNT-412000S1 199029	RASP5-8421PNT-412R001S1 199045	RASP5-8421PNT-4120101S1 199033	RASP5-8421PNT-412R101S1 199049
				230/277 V DC	4	2	RASP5-8422PNT-412000S1 199030	RASP5-8422PNT-412R001S1 199046	RASP5-8422PNT-4120101S1 199034	RASP5-8422PNT-412R101S1 199050
				400/480 V AC	4	2	RASP5-8424PNT-412000S1 199031	RASP5-8424PNT-412R001S1 199047	RASP5-8424PNT-4120101S1 199035	RASP5-8424PNT-412R101S1 199051

Notes

- 1) Rated operational current at a switching frequency of 6 kHz and an ambient temperature of +40 °C
- 2) For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) At 400 V, 50 Hz
- 4) at 440-480 V, 60 Hz
- 5) For controlling motors with mechanical brakes
- 6) Integrated brake chopper with resistor for dynamic braking

Rated operational current ¹⁾	Assigned motor rating ^{2,3)}	Control voltage External brake ⁴⁾	Inputs/ outputs	DOL starter		Reversing starter			
				Without repair switch	With repair switch	Without repair switch	With repair switch		
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
6.6	0.09-3	0.125-4	-	4	2		RAMO5-D420EIP-412RS1 199117		RAMO5-W420PNT-412RS1 199121
			180/207 V DC	4	2		RAMO5-D421PNT-412RS1 199118		RAMO5-W421PNT-412RS1 199122
			230/277 V DC	4	2		RAMO5-D422PNT-412RS1 199119		RAMO5-W422PNT-412RS1 199123
			400/480 V AC	4	2		RAMO5-D424PNT-412RS1 199120		RAMO5-W424PNT-412RS1 199124

RASP5 variable frequency drive

Rated operational current ¹⁾	Assigned motor rating ^{2,3)}	Control voltage External brake ⁴⁾	Inputs/ outputs	Without integrated brake resistor		With integrated brake resistor			
				Without repair switch	With repair switch	Without repair switch	With repair switch		
I _e A	P kW	P HP	(50/60 Hz)	Sensor input	Actuator output ⁵⁾	Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
2.4	0.75	1	-	4	2		RASP5-2420EIP-412R000S1 198868		RASP5-2420EIP-412R100S1 198872
			180/207 V DC	4	2		RASP5-2421EIP-412R000S1 198869		RASP5-2421EIP-412R100S1 198873
			230/277 V DC	4	2		RASP5-2422EIP-412R000S1 198870		RASP5-2422EIP-412R100S1 198874
			400/480 V AC	4	2		RASP5-2424EIP-412R000S1 198871		RASP5-2424EIP-412R100S1 198875
4.3	1.5	2	-	4	2		RASP5-4420EIP-412R000S1 198884		RASP5-4420EIP-412R100S1 198888
			180/207 V DC	4	2		RASP5-4421EIP-412R000S1 198885		RASP5-4421EIP-412R100S1 198889
			230/277 V DC	4	2		RASP5-4422EIP-412R000S1 198886		RASP5-4422EIP-412R100S1 198890
			400/480 V AC	4	2		RASP5-4424EIP-412R000S1 198887		RASP5-4424EIP-412R100S1 198891
5.6	2.2	3	-	4	2		RASP5-5420EIP-412R000S1 198900		RASP5-5420EIP-412R100S1 198904
			180/207 V DC	4	2		RASP5-5421EIP-412R000S1 198901		RASP5-5421EIP-412R100S1 198905
			230/277 V DC	4	2		RASP5-5422EIP-412R000S1 198902		RASP5-5422EIP-412R100S1 198906
			400/480 V AC	4	2		RASP5-5424EIP-412R000S1 198903		RASP5-5424EIP-412R100S1 198907
8.5	4	5	-	4	2		RASP5-8420EIP-412R001S1 198916		RASP5-8420EIP-412R101S1 198920
			180/207 V DC	4	2		RASP5-8421EIP-412R001S1 198917		RASP5-8421EIP-412R101S1 198921
			230/277 V DC	4	2		RASP5-8422EIP-412R001S1 198918		RASP5-8422EIP-412R101S1 198922
			400/480 V AC	4	2		RASP5-8424EIP-412R001S1 198919		RASP5-8424EIP-412R101S1 198923

Notes

- 1) Rated operational current at a switching frequency of 6 kHz and an ambient temperature of +40 °C
- 2) For normal four-pole, internally and externally ventilated three-phase asynchronous motors with 1500 min-1 at 50 Hz or 1800 min-1 at 60 Hz
- 3) At 400 V, 50 Hz
at 440-480 V, 60 Hz
- 4) For controlling motors with mechanical brakes
- 5) Integrated brake chopper with resistor for dynamic braking

PowerXL variable frequency drives

Accessories

Moeller series

	Description	For use with	Part no.	Article no.
External control unit				
	7-digit display IP54 at the front With approx. 3 m long, pluggable connection cable (RJ45, 8-pin)	DE1, DE11, DC1, DB1, DA1	DX-KEY-LED2	186946
	OLED display IP54 at the front Multi-language With approx. 3 m long, pluggable connection cable (RJ45, 8-pin)	DC1, DB1, DA1, RAM05, RASP5	DX-KEY-OLED	169133
	LCD display IP54 at the front Multi-language	DG1	DXG-KEY-LCD	730-32047-00P
	Mounting frame With approx. 0.5 m long, pluggable connection cable Mounting frame	DG1, DM1	DXG-KEY-RMTKIT	730-32033-00P
	Cover for RJ45 interface		DXG-KEY-HOLDER	730-32032-00P
			DXG-KEY-N12PLUG	730-32038-00P
Configuration module				
Plug-in module (front)		DE1, DE11	DXE-EXT-SET	174621
	With selector switch for ramp time and operating mode With potentiometer for motor protection and fixed speed			
Expansion modules				
Output expansion		DC1	DXC-EXT-2R01AO	169030
	2 relay outputs (N/O, 250 V AC/220 V DC, max. 1 A) 1 analog output (0 - +10 V, max. 20 mA) For connection to the DC1 control signal terminals			
	2 relay outputs (N/O, 250 V AC/220 V DC, max. 1 A) For connection to the DC1 control signal terminals	DC1	DXC-EXT-2RO	169031
	Plug-in module with pluggable terminal strip, 5-pole 3 relay outputs (N/O, 250 V AC, max. 6 A/30 V DC, max. 5 A)	DA1	DXA-EXT-3RO	169121
	3 relay outputs	DG1	DXG-EXT-3RO	744-A2614-00P
Input/output expansion				
	Plug-in module with pluggable terminal strip, 6-pole 3 digital inputs (+24 V) 1 relay output (N/O, 250 V AC, max. 6 A/30 V DC, max. 5 A)	DA1	DXA-EXT-3DI1RO	169036
	3 digital inputs 3 digital outputs 1 thermistor input	DG1	DXG-EXT-3DI3D01T	744-A2612-00P
	1 analog input 2 analog outputs	DG1	DXG-EXT-1AI2AO	744-A2613-00P

	Description	For use with	Part no.	Article no.
Expansion modules				
Input expansion				
	3 PT100 inputs 3 relay outputs 3 digital inputs, 3 digital outputs, 1 thermistor input 1 analog input, 2 analog outputs 240 V AC input (galvanically isolated) For 6 digital inputs	DG1	DXG-EXT-THER1 DXG-EXT-3RO DXG-EXT-3DI3DO1T DXG-EXT-1AI2AO DXG-EXT-6DI	744-A2615-00P 744-A2614-00P 744-A2612-00P 744-A2613-00P 744-A2616-00P
	Plug-in module with pluggable terminal strip, 5-pole 2 channels max. 500 kHz 5 V TTL, A & B, /A & /B, 5 V DC, max. 200 mA 24 V HTL, A & B, /A & /B, 24 V DC, external power supply required, max. 30 V DC	DA1	DXA-EXT-ENCOD	169035
Coupling module				
	115 V AC input (galvanically isolated) For 4 digital inputs For connection to the DC1 control signal terminals 230 V AC input (galvanically isolated) For 4 digital inputs For connection to the DC1 control signal terminals	DC1	DXC-EXT-I0110 DXC-EXT-I0230	169032 169033
Fieldbus module				
	PROFIBUS-DP SUB-D socket, 9-pole	DA1	DX-NET-PROFIBUS	169124
	PROFINET 2 x RJ45, 8-pole Plug-in module Modbus-TCP 2 x RJ45, 8-pole EtherNet/IP 2 x RJ45, 8-pole EtherCAT 2 x RJ45, 8-pole DeviceNet	DA1	DX-NET-PROFINET-2 DX-NET-MODBUSTCP-2 DX-NET-ETHERNET-2 DX-NET-ETHERCAT-2 DX-NET-DEVICENET	169125 169126 169122 169127 169123
	PROFINET 2 x RJ45, 8-pole Plug-in module (front) EtherNet/IP 2 x RJ45, 8-pole Plug-in module (front)	DE1, DE11, DC1 (IP20)	DX-NET-PROFINET2-2 DX-NET-ETHERNET2-2	184947 184969
DM1 network interfaces				
	PROFIBUS-DP SUB-D socket, 9-pole	DG1	DXG-NET-PROFIBUS	744-A2617-00P
	Interface converter from 9-pole SUB-D connector to 3-pole control terminals	DXG-NET-PROFIBUS	DXG-MNT-PROFIBUS	744-A2618-00P
Network interfaces				
	DG1/DH1 networking: DEVICENET DG1/DH1 networking: SWD-IP20 DG1/DH1 networking: SWD-IP54 DG1/DH1 networking: PROFINET	DG1 DG1, DM1 DG1 DG1	DXG-NET-DEVICENET DXG-NET-SWD-IP20 DXG-NET-SWD-IP54 DXG-NET-PROFINET	744-F0117-00P 744-F0190-00P 744-F0191-00P 400003
DM1 Pro network interfaces				
	DM1 Profibus option with clip-on housing DM1 CANopen option with clip-on housing DM1 Profinet option with clip-on housing	DM1	DXM-NET-PROFIBUS DXM-NET-CANOPEN DXM-NET-PROFINET	3-5039-001A 3-5040-001A 400004

PowerXL variable frequency drives

Accessories

Moeller series

	Description	For use with	Part no.	Article no.
SmartWire-DT modules				
	Plug-in module with slot for SWD4-8SF2-5 external device plug 	DA1 (IP20, IP55)	DX-NET-SWD1	169129
	Plug-in module (at the front) with slot for SWD4-8SF2-5 external device plug 	DE1, DE11, DC1 (IP20)	DX-NET-SWD3	169131
PC communication				
Memory and Bluetooth communication stick	For storage, copy and/or transfer of parameters via Bluetooth to a PC using the drivesConnect software or mobile app, with two function keys for uploading and downloading parameters from the memory using a Bluetooth dongle. 	DE1, DE11, DC1, DB1, DA1, RAM05, RASP5	DX-COM-STICK3-KIT	197586
Interface converters				
	USB/RS485 interface converter with connection cable, RJ45, 8-pole Galvanically isolated	DE1, DE11, DC1, DB1, DA1, RAM05, RASP5	DX-CBL-PC-3M0	744-A306-00P
	RJ45/USB, with CD	DG1, DH1, DM1	DXG-CBL-PCCABLE	730-32037-00P
License key for activating the function block editor in the drivesConnect software	USB memory stick 	DA1	DX-COM-SOFT	169136
Connecting cable				
	Patch cable with RJ45 plugs, 8-pole Length: 0.5 m Length: 1 m Length: 3 m	DE1, DE11, DC1, DB1, DA1	DX-CBL-RJ45-0M5 DX-CBL-RJ45-1M0 DX-CBL-RJ45-3M0	169137 169138 169139
	Patch cable with RJ45 plugs, 8-pole Length: 1 m Length: 3 m	DG1, DM1	DXG-CBL-1M0 DXG-CBL-3M0	730-32034-00P 730-32035-00P

	Description	For use with	Part no.	Article no.
Bus terminating resistor	RJ45 8-pole Connection to CANopen® (PIN 1/2, 124 Ω) or Modbus-RTU (PIN 7/8, 120 Ω)	easyNet DX-SPL-RJ45-2SL-1PL	EASY-NT-R	256281
PC communication				
Splitter	RJ45, 8-pole, 3 sockets For CANopen® and Modbus RTU	DX-CBL-RJ45...	DX-SPL-RJ45-3SL	169141
	RJ45, 8-pole, 2 sockets/1 plug with approx. 10 cm long cable For CANopen® and Modbus RTU	DE1, DE11, DC1, DA1	DX-SPL-RJ45-2SL1PL	169142
Battery	Battery for real-time clock	DG1	DXG-ACC-RTBATT	730-32039-00P
Mounting accessories				
Mounting frame for through-hole mounting of the power section outside the control cabinet	Frame parts and mounting screws	DG1 (frame size FS1) DG1 (frame size FS2) DG1 (frame size FS3) DG1 (frame size FS4) DG1 (frame size FS5) DG1 (frame size FS6)	DXG-ACC-FR1N12FK DXG-ACC-FR2N12FK DXG-ACC-FR3N12FK DXG-ACC-FR4N12FK DXG-ACC-FR5N12FK DXG-ACC-FR6N12FK	730-32022-00P 730-32023-00P 730-32024-00P 730-32025-00P 730-32026-00P 744-A3845-00P
Mounting kit for increasing the degree of protection from IP21/NEMA 1 to IP54/NEMA 12	Enclosure cover with seals and auxiliary fan	DG1-34... (frame size FS1, 400/480 V) DG1 (frame size FS2) DG1-32... (frame size FS1, 230 V)	DXG-ACC-4FR1N12KIT DXG-ACC-FR2N12KIT DXG-ACC-2FR1N12KIT	730-32029-00P 730-32030-00P 744-A2815-00P
IP21 / NEMA1 kit DM1	DM1 FR1 NEMA 1 kit DM1 FR2 NEMA 1 kit DM1 FR3 NEMA 1 kit DM1 FR4 NEMA 1 kit	DM1	DXM-ACC-FR1N1KIT DXM-ACC-FR1N2KIT DXM-ACC-FR1N3KIT DXM-ACC-FR1N4KIT	3-5033-001A 3-5034-001A 3-5035-001A 3-5036-001A
IP21 / NEMA1 kit DM1 100 kA UL plenum rating	DM1 frame size 1, flame retardant NEMA 1 kit DM1 frame size 2, flame retardant NEMA 1 kit DM1 frame size 3, flame retardant NEMA 1 kit DM1 frame size 4, flame retardant NEMA 1 kit	DM1	DXM-ACC-FR1NPKIT DXM-ACC-FR2NPKIT DXM-ACC-FR3NPKIT DXM-ACC-FR4NPKIT	3-5056-001A 3-5057-001A 3-5058-001A 3-5059-001A