

>pDRIVE<

MX

>pDRIVE< Frequency Inverters

- >pDRIVE< MX eco
- >pDRIVE< MX pro
- >pDRIVE< MX multi



Innovation born of experience

>pDRIVE< frequency inverters have long been successful in a wide variety of different applications thanks to their unique operating concept and their reliability.

The new generation of >pDRIVE< MX frequency inverters adds further innovative features to this familiar power profile.

The proven Matrix operating philosophy

The well-known Matrix operating philosophy for simple and quick operation has been taken over for the new >pDRIVE< MX frequency inverters. The large display, the new Matrix wheel and the target-oriented function keys enable initial commissioning and any subsequent modifications necessitated by changing demands to be completed quickly and easily.

The new design:

- **Basic keypad**
with inverter status display and for setting up parameter
- **Removable Matrix operating panel**
with plaintext display in 20 languages
- **Copy function**
enables you to transfer all your settings to other devices
- **Generous 8-line display**
with integrated status and actual values
- **Matrix wheel and seven buttons**
for quick and easy operation
- **Parameters arranged in the well-known Matrix structure**
giving rapid access to the desired function



Established functions

- Application macros
- Short menu
- Crane function
- Functional blocks
- Line contactor control
- AVC Auto Vector Control
- Load balance control ...

New Functions

- Safe standstill
- Automatic parameter fade-out
- Torque controller
- Calculator
- Cascade control
- Electric shaft
- Positioning control ...

>pDRIVE< MX

Top industrial quality

The market demands solutions for specific plant situations and extremely variable environmental conditions. Applications range from drives operating as simple control elements right up to decentralised drive units performing closed-loop/open-loop regulation, positioning and control tasks. The compact, clearly structured design, simple operation, extensive functionality and wide range of possible options of the >pDRIVE< MX enable it to adapt optimally to each and every demand.

Intelligent device design

Device construction that is in every respect robust for all power values from 0.75 to 800 kW guarantees long and fault-free operation. The internal IP54 separation isolates the control electronics from the power part, thereby effectively protecting it against troublesome dirt.

Mechanical options:

- Mounting set for quick and safe installation in cubicles
- Terminal box as ideal addition for wall-mounted inverters
- Flange mounting kit for installing the heat sink outside the cubicle

Electrical options:

- Choke to reduce current harmonic emissions – available for AC or DC
- Additional radio interference filters for applications in residential areas
- Braking resistors for hoists, long-travels, etc.
- Output motor filters for use with extremely long motor cables



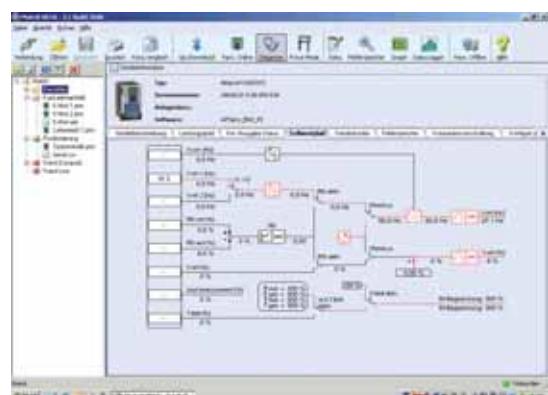
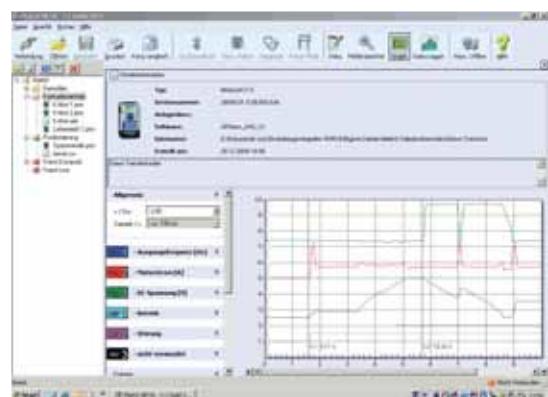
Innovative control options

The >pDRIVE< MX already includes freely programmable comparators, logic modules and timing elements for the cost-effective solution of drive control tasks.

The >pDRIVE< MX eco and pro frequency inverters standardly offer field-bus connections for Modbus and CANopen, and connections to Profibus DP with Profidrive profile are available in the form of a plug-in card. And the plug-and-play capability of the >pDRIVE< MX is not restricted to the mechanics of its connection, but extends to automatic activation and display of the appropriate parameters.

Optional cards:

- For analog and digital inputs and outputs
- Profibus DP with integrated diagnostic LEDs
- For encoder feedback



PC software Matrix 3

The convenient and powerful PC software *Matrix 3* has further enhanced the user-friendliness of the >pDRIVE< MX eco and MX pro product series.

Based on the familiar Windows user interface and the well-established Matrix operating philosophy, the program offers numerous tools that considerably shorten commissioning time and provide for secure archiving of the completed device settings.

Basic functions:

- Offline device configuration during the planning phase
- Online upload and download of parameters at installation
- Online parameterization during the commissioning process
- Online visualization of power parameters and control paths
- Offline evaluation of trend recorder and data logger
- Offline archiving of all drive data
- Remote access via modem or Ethernet for diagnostic and monitoring purposes

>pDRIVE< MX eco

For standard drives in communities and industry

The market for speed-controlled standard drives calls for simple but robust devices, and the >pDRIVE< MX eco optimally fulfils this need. Its wealth of applications range from internal waterworks, irrigation plants, and industrial drives for pumps and blower drives with square load-torque characteristic to constant load-torque compressors and water-lifting works.



Special device features of the >pDRIVE< MX eco

- Cascade control for up to five pumps without external controls
- Automatic balancing of operating hours for the selected pumps
- Emergency operation for more reliable ventilation of road and rail tunnels
- Follow-up function and standby mode to save energy
- Analog arithmetic unit increases the versatility of the integrated PID controller
- Regulator for pressure and flow characteristics with compensation for pressure drop
- "Safe standstill" function makes it unnecessary to install a line or motor contactor
- Motor recognition for safer switching-on and off during operation
- Economy mode ensures maximum system efficiency
- Direct integration of pressure and flow sensors
- Automatic control of device fans



General technical data >pDRIVE< MX eco

Mains voltage	3-phase 380...480 V -15/+10%; 50/60 Hz ±5%
Power range	0.75...630 kW
Maximum current	120% for 60 s per 10 minutes, 135% for 2 s
Design	Built-in unit with protection degree IP20, from 90 kW IP20/00 Wall-mounting device with protection degree IP41/21, from 90 kW IP31
Special functions	RFI-filter built-in for 1st "residential environment" category C2; from 5.5 kW built-in for 2nd "industrial environment" category C3
Standards	CE, UL, cUL, GOST

>pDRIVE< MX pro

For all high-performance drives in industry and machine building

The >pDRIVE< MX pro adds numerous functions to the well-known and successful features of the >pDRIVE< MX product range. It is even more robust in handling, offers more sophisticated operation and markedly extends the range of possible applications. The built-in facility for switching from power level P1 (high overload) to P2 (high continuous load) offers an additional way of optimizing costs. The braking function provided by the braking unit together with several inverters coupled via the DC link makes it possible to realise highly dynamic system tasks particularly efficiently.

Special device features of the >pDRIVE< MX pro

- High-quality speed and torque control
- Selectable overload limit – power P1/P2
- Motor control modes for dynamic operation of synchronous and asynchronous motors
- Extended crane functions for enhanced safety and faster operation
- Positioning functions for fast production lines
- “Safe standstill” function makes it unnecessary to install a line or motor contactor
- Synchronous speed and rotation controls to create an electric shaft
- Master / slave control for equitable load sharing with group drives
- Automatic control of device fans
- Parameter switching depending on the drive task



General technical data >pDRIVE< MX pro

Mains voltage	MX pro 4V: 3-phase 380...480 V -15/+10%; 50/60 Hz ±5% MX pro 6V: 3-phase 500...690 V -15/+10%; 50/60 Hz ±5%
Power range	MX pro 4V: 0.75...630 kW MX pro 6V: 2.2...800 kW
Maximum current	150 (120)% for 60 s per 10 minutes, 165 (135)% for 2 s
Design	Built-in unit with protection degree IP20, from 90 kW IP20/00 Wall-mounting device with IP41/21, from 90 kW IP31
Special functions	Built-in RFI-filter for 2nd “industrial environment” C3; Built-in braking unit up to 160/200 kW; encoder feedbacks
Standards	CE, UL, cUL, GOST

>pDRIVE< MX multi



Frequency inverter – standard cubicle

The >pDRIVE< MX multi concept offers standard ready-to-connect cubicles based on a modular assembly system that enables them to be optimally adapted to the individual plant conditions.

The >pDRIVE< MX multi comes with:

- a choice of three different protection degrees
- a clearly specified and tested cooling system
- a ready-to-connect cubicle unit

Basic equipment of the >pDRIVE< MX multi

In addition to a frequency inverter of type >pDRIVE< MX eco or >pDRIVE< MX pro and the Matrix operating panel, the basic configuration includes mains fuses including the main switch, a choke to reduce current harmonic emissions and the corresponding connection terminals.



General technical data >pDRIVE< MX multi

Mains voltage	3-phase 400/500/690 V -15/+10%; 50 Hz +5%
Power range	22...800 kW
Basic equipment	Frequency inverter >pDRIVE< MX eco or MX pro, main switch, mains fuses, AC or DC choke, motor terminals, Matrix operating panel
Optional equipment	Line contactor, AMF (output motor filter), braking unit, terminal extensions, fieldbus, emergency stop, lighting, ...
Design	Standard inverter cubicle based on Rittal TS8 system
Special functions	Built-in RFI filter for 2nd "industrial environment" class 3 as standard
Standards	CE

Extended scope of delivery

The modular assembly system provides for a number of options that can be selected as required. These include extensions to the power part, various control and protection options as well as cubicle heating, lighting and additional terminals for motor standstill heating or external motor fans.



Further options:

- Main switch
- Line contactor
- Output motor filter
- Braking unit
- Mains current and mains voltage display
- Cable entry from above
- Control voltage transformer
- Power supply unit for buffer voltage
- Emergency-off / emergency-stop
- Terminal extensions
- Fieldbus communication
- Speed feedback
- PTC thermistor relay
- Pt 100 sensor unit
- Key switch
- Air condition
- Cubicle plinth 200 mm

Special designs

Our customer-orientation and internal flexibility makes it also possible to offer a wide range of special designs, such as individual cubicle colours, other brands of cubicles and customer-specific control equipment.



Individual solutions for every area of application

Extensive service sector

Whether for a brief telephone query, an on-site situation analysis or to develop an entire system solution, we are at your service:

- Selection of inverters and accessories
- Inverters in cubicles; flexible yet standardized (homologated)
- Complete drive chain transformer – inverter – (transformer) – motor
- Wiring, installation and commissioning

High power drives

We offer one very successful series of cubicle equipment for 690 V mains voltage. Our >pDRIVE< MX top concept is eminently suitable for problem-free use of power ranges up to 1.5 MW. Optimal control parameters can easily be set up, simply by registering the performance data given on the rating plate and autotuning the motor at standstill. A variety of available options enable this extremely robust range of cubicle equipment to be adapted to suit the specific requirements for a particular drive.



>pDRIVE< MX top
for 690 V mains
voltage in the range
160...1500 kW

Water-cooled drives

Water-cooled frequency inverters are an interesting alternative when equipment has to be operated in a confined space or in compactly constructed machinery. It guarantees maximum availability even under the most rugged conditions.

A water-water or air-water heat exchanger can be integrated into a cubicle if required. The main fields of application for this are in mining and machine building.



>pDRIVE< MX plus-hydro
for 400...500 V mains voltage
in the range 90...630 kW
>pDRIVE< MX top-hydro
for 690 V mains voltage
in the range 160...1500 kW

Photo: Vogel AV



Energy regeneration to the mains

Hoists, test benches, winches and other drives that often operate regeneratively need an efficient way of returning the regenerated energy to the mains. With the >pDRIVE< LX, both single drives and group drives operate as four-quadrant drives. The supply and regeneration unit carries a sinusoidal mains current. Any value of cos(phi) can be set up without additional effort. This enables the device reserves of the >pDRIVE< LX plus to be used to compensate for the reactive current in the mains supply.



>pDRIVE< LX plus
supply and regeneration unit
for the >pDRIVE< MX eco and pro
for 400 to 440 V mains voltage
in the range 26...675 kVA



Drives for medium voltage motors

For medium power applications, using low-voltage inverters together with step-up transformers has proved a very successful cost-effective alternative to regulated medium voltage motors, both for retro-fitting and when installing new plant.

Our product range includes frequency inverters with sinusoidal motor filters and step-up/step-down transformers, optionally also as cubicle equipment.



>pDRIVE< MX pro
and transformers
for 1 to 6.6 kV motor voltage
(or mains and motor voltage)
in the power range 200...800 kW



>pDRIVE< MX eco 4V

Built-in devices						
>pDRIVE<	Motor power	Output current	Dimensions W x H x D			
MX eco 4V0.75	0.75 kW	2.3 A	130 x 230 x 175 mm			
MX eco 4V1.5	1.5 kW	4.1 A	130 x 230 x 175 mm			
MX eco 4V2.2	2.2 kW	5.8 A	130 x 230 x 175 mm			
MX eco 4V3.0	3.0 kW	7.8 A	155 x 260 x 187 mm			
MX eco 4V4.0	4.0 kW	10.5 A	155 x 260 x 187 mm			
MX eco 4V5.5	5.5 kW	14.3 A	175 x 295 x 187 mm			
MX eco 4V7.5	7.5 kW	17.6 A	175 x 295 x 187 mm			
MX eco 4V11	11 kW	27.7 A	210 x 295 x 213 mm			
MX eco 4V15	15 kW	33 A	230 x 400 x 213 mm			
MX eco 4V18	18.5 kW	41 A	230 x 400 x 213 mm			
MX eco 4V22	22 kW	48 A	240 x 420 x 236 mm			
MX eco 4V30	30 kW	66 A	240 x 550 x 266 mm			
MX eco 4V37	37 kW	79 A	240 x 550 x 266 mm			
MX eco 4V45	45 kW	94 A	320 x 630 x 290 mm			
MX eco 4V55	55 kW	116 A	320 x 630 x 290 mm			
MX eco 4V75	75 kW	160 A	320 x 630 x 290 mm			
MX eco 4V90	90 kW	179 A	310 x 680 x 377 mm			
MX eco 4V110	110 kW	215 A	310 x 680 x 377 mm			
MX eco 4V132	132 kW	259 A	350 x 782 x 377 mm			
MX eco 4V160	160 kW	314 A	330 x 950 x 377 mm			
MX eco 4V200	200 kW	387 A	430 x 950 x 377 mm			
MX eco 4V250	250 kW	481 A	585 x 950 x 377 mm			
MX eco 4V315	315 kW	616 A	585 x 950 x 377 mm			
MX eco 4V355	355 kW	671 A	880 x 1150 x 377 mm			
MX eco 4V400	400 kW	759 A	880 x 1150 x 377 mm			
MX eco 4V500	500 kW	941 A	880 x 1150 x 377 mm			
MX eco 4V630	630 kW	1188 A	1110 x 1150 x 377 mm			
Cubicle devices						
Mains voltage	3-phase 380...415 V -15/+10%; 50 Hz ±5%					
Dimensions	IP23 "Standard": Cubicle depth: 600 mm; Cubicle height: 2155 mm IP54 "Compact": Cubicle depth: 600 mm; Cubicle height: 2260 mm IP54 "Heavy Duty": Cubicle depth: 600 mm; Cubicle height: 2355 mm					
Ambient temperature	0... +40°C, up to 50°C with power derating					
>pDRIVE<	Motor power @ 400 V	Output current @ 400 V	Cubicle width IP23 Standard	IP54 Compact Heavy Duty		
MX multi-eco 4V22-S	22 kW	48 A	600 mm	600 mm	-	
MX multi-eco 4V30-S	30 kW	66 A	600 mm	600 mm	-	
MX multi-eco 4V37-S	37 kW	79 A	600 mm	600 mm	-	
MX multi-eco 4V45-S	45 kW	94 A	600 mm	600 mm	-	
MX multi-eco 4V55-S	55 kW	116 A	600 mm	600 mm	-	
MX multi-eco 4V75-S	75 kW	160 A	600 mm	600 mm	-	
MX multi-eco 4V90-S	90 kW	179 A	600 mm	600 mm	600 mm	
MX multi-eco 4V110-S	110 kW	215 A	600 mm	600 mm	600 mm	
MX multi-eco 4V132-S	132 kW	259 A	600 mm	600 mm	600 mm	
MX multi-eco 4V160-S	160 kW	314 A	600 mm	600 mm	600 mm	
MX multi-eco 4V200-S	200 kW	387 A	600 mm	600 mm	600 mm	
MX multi-eco 4V250-S	250 kW	481 A	800 mm	800 mm	800 mm	
MX multi-eco 4V315-S	315 kW	616 A	800 mm	800 mm	800 mm	
MX multi-eco 4V355-S	355 kW	671 A	1000 mm	1000 mm	1400 mm	
MX multi-eco 4V400-S	400 kW	759 A	1000 mm	1000 mm	1400 mm	
MX multi-eco 4V500-S	500 kW	941 A	1000 mm	1000 mm	1400 mm	
MX multi-eco 4V630-S	630 kW	1188 A	1200 mm	1200 mm	1600 mm	

>pDRIVE< MX pro 4V

Built-in devices						
>pDRIVE<	Motor power P1/P2 @ 400 V	Output current I1/I2 @ 400 V	Dimensions W x H x D			
Mains voltage	3-phase 380...480 V –15/+10%; 50/60 Hz ±5%					
Maximum current	P1: 150% per 60 s per 10 minutes, 165% per 2 s P2: 120% per 60 s per 10 minutes, 135% per 2 s					
Operating temperature	Power P1: –10 ... +50°C, up to 60°C with power derating Power P2: –10 ... +45°C, up to 60°C with power derating					
MX pro 4V0.75	0.75 kW	2.3 A	130 x 230 x 175 mm			
MX pro 4V1.5	1.5 kW	4.1 A	130 x 230 x 175 mm			
MX pro 4V2.2	2.2 kW	5.8 A	130 x 230 x 175 mm			
MX pro 4V3.0	3.0 kW	7.8 A	155 x 260 x 187 mm			
MX pro 4V4.0	4.0 kW	10.5 A	155 x 260 x 187 mm			
MX pro 4V5.5	5.5 kW	14.3 A	175 x 295 x 187 mm			
MX pro 4V7.5	7.5 kW	17.6 A	175 x 295 x 187 mm			
MX pro 4V11	11 kW	27.7 A	210 x 295 x 213 mm			
MX pro 4V15	15 kW	33 A	230 x 400 x 213 mm			
MX pro 4V18	18.5 kW	41 A	230 x 400 x 213 mm			
MX pro 4V22	22 kW	48 A	240 x 420 x 236 mm			
MX pro 4V30	30 kW	66 A	240 x 550 x 266 mm			
MX pro 4V37	37 kW	79 A	240 x 550 x 266 mm			
MX pro 4V45	45 kW	94 A	320 x 630 x 290 mm			
MX pro 4V55	55 kW	116 A	320 x 630 x 290 mm			
MX pro 4V75	75 kW	160 A	320 x 630 x 290 mm			
MX pro 4V90/110	90/110 kW	179/215 A	310 x 680 x 377 mm			
MX pro 4V110/132	110/132 kW	215/259 A	350 x 782 x 377 mm			
MX pro 4V132/160	132/160 kW	259/314 A	330 x 950 x 377 mm			
MX pro 4V160/200	160/200 kW	314/387 A	430 x 950 x 377 mm			
MX pro 4V200/250	200/250 kW	387/481 A	585 x 950 x 377 mm			
MX pro 4V250/315	250/315 kW	481/616 A	585 x 950 x 377 mm			
MX pro 4V315/400	315/400 kW	616/759 A	880 x 1150 x 377 mm			
MX pro 4V400/500	400/500 kW	759/941 A	880 x 1150 x 377 mm			
MX pro 4V500/630	500/630 kW	941/1188 A	1110 x 1150 x 377 mm			
Cubicle devices						
Mains voltage	3-phase 380...415 V –15/+10%; 50 Hz ±5%					
Dimensions	IP23 "Standard": Cubicle depth: 600 mm; Cubicle height: 2155 mm IP54 "Compact": Cubicle depth: 600 mm; Cubicle height: 2260 mm IP54 "Heavy Duty": Cubicle depth: 600 mm; Cubicle height: 2355 mm					
Ambient temperature	0... +40°C, up to 50°C with power derating					
>pDRIVE<	Motor power P1/P2 @ 400 V	Output current I1/I2 @ 400 V	Cubicle width IP23 Standard	IP54 Compact	IP54 Heavy Duty	
MX multi-pro 4V22-S	22 kW	48 A	600 mm	600 mm	–	
MX multi-pro 4V30-S	30 kW	66 A	600 mm	600 mm	–	
MX multi-pro 4V37-S	37 kW	79 A	600 mm	600 mm	–	
MX multi-pro 4V45-S	45 kW	94 A	600 mm	600 mm	–	
MX multi-pro 4V55-S	55 kW	116 A	600 mm	600 mm	–	
MX multi-pro 4V75-S	75 kW	160 A	600 mm	600 mm	–	
MX multi-pro 4V90/110-S	90/110 kW	179/215 A	600 mm	600 mm	600 mm	
MX multi-pro 4V110/132-S	110/132 kW	215/259 A	600 mm	600 mm	600 mm	
MX multi-pro 4V132/160-S	132/160 kW	259/314 A	600 mm	600 mm	600 mm	
MX multi-pro 4V160/200-S	160/200 kW	314/387 A	600 mm	600 mm	600 mm	
MX multi-pro 4V200/250-S	200/250 kW	387/481 A	800 mm	800 mm	800 mm	
MX multi-pro 4V250/315-S	250/315 kW	481/616 A	800 mm	800 mm	800 mm	
MX multi-pro 4V315/400-S	315/400 kW	616/759 A	1000 mm	1000 mm	1400 mm	
MX multi-pro 4V400/500-S	400/500 kW	759/941 A	1000 mm	1000 mm	1400 mm	
MX multi-pro 4V500/630-S	500/630 kW	941/1188 A	1200 mm	1200 mm	1600 mm	

>pDRIVE< MX pro 5/6V 500V

Built-in devices			
>pDRIVE<	Motor power P1/P2 @ 500 V	Output current I1/I2 @ 500 V	Dimensions W x H x D
MX pro 6V2.2/3.0	1.5/2.2 kW	3.2/4.5 A	240 x 420 x 236 mm
MX pro 6V3.0/4.0	2.2/3.0 kW	4.5/5.8 A	240 x 420 x 236 mm
MX pro 6V4.0/5.5	3.0/4.0 kW	5.8/7.5 A	240 x 420 x 236 mm
MX pro 6V5.5/7.5	4.0/5.5 kW	7.5/10 A	240 x 420 x 236 mm
MX pro 6V7.5/11	5.5/7.5 kW	10/13.5 A	240 x 420 x 236 mm
MX pro 6V11/15	7.5/11 kW	13.5/18.5 A	240 x 420 x 236 mm
MX pro 6V15/18	11/15 kW	18.5/24 A	240 x 420 x 236 mm
MX pro 6V18/22	15/18.5 kW	24/29 A	240 x 420 x 236 mm
MX pro 6V22/30	18.5/22 kW	29/35 A	240 x 420 x 236 mm
MX pro 6V30/37	22/30 kW	35/47 A	320 x 630 x 290 mm
MX pro 6V37/45	30/37 kW	47/59 A	320 x 630 x 290 mm
MX pro 6V45/55	37/45 kW	59/68 A	320 x 630 x 290 mm
MX pro 6V55/75	45/55 kW	68/85 A	320 x 630 x 290 mm
MX pro 6V75/90	55/75 kW	85/110 A	320 x 630 x 290 mm
MX pro 6V90/110	75/90 kW	110/136 A	330 x 950 x 377 mm
MX pro 6V110/132	90/104 kW	136/165 A	330 x 950 x 377 mm
MX pro 6V132/160	110/132 kW	165/200 A	330 x 950 x 377 mm
MX pro 6V160/200	132/160 kW	200/240 A	330 x 950 x 377 mm
MX pro 6V200/250	160/200 kW	240/312 A	585 x 950 x 377 mm
MX pro 6V250/315	200/250 kW	312/390 A	585 x 950 x 377 mm
MX pro 6V315/400	250/315 kW	390/462 A	585 x 950 x 377 mm
MX pro 6V400/500	315/400 kW	462/590 A	1110 x 1150 x 377 mm
MX pro 6V500/630	400/500 kW	590/740 A	1110 x 1150 x 377 mm
MX pro 6V630/800	500/630 kW	740/900 A	1110 x 1150 x 377 mm
Cubicle devices			
>pDRIVE<	Motor power P1/P2 @ 500 V	Output current I1/I2 @ 500 V	Cubicle width IP23 Standard IP54 Compact
MX multi-pro 5V18/22-S	18.5/22 kW	29/35 A	600 mm 600 mm
MX multi-pro 5V22/30-S	22/30 kW	35/47 A	600 mm 600 mm
MX multi-pro 5V30/37-S	30/37 kW	47/59 A	600 mm 600 mm
MX multi-pro 5V37/45-S	37/45 kW	59/68 A	600 mm 600 mm
MX multi-pro 5V45/55-S	45/55 kW	68/85 A	600 mm 600 mm
MX multi-pro 5V55/75-S	55/75 kW	85/110 A	600 mm 600 mm
MX multi-pro 5V75/90-S	75/90 kW	110/136 A	600 mm 600 mm
MX multi-pro 5V90/110-S	90/104 kW	136/165 A	600 mm 600 mm
MX multi-pro 5V110/132-S	110/132 kW	165/200 A	600 mm 600 mm
MX multi-pro 5V132/160-S	132/160 kW	200/240 A	600 mm 600 mm
MX multi-pro 5V160/200-S	160/200 kW	240/312 A	800 mm 800 mm
MX multi-pro 5V200/250-S	200/250 kW	312/390 A	800 mm 800 mm
MX multi-pro 5V250/315-S	250/315 kW	390/462 A	800 mm 800 mm
MX multi-pro 5V315/400-S	315/400 kW	462/590 A	1200 mm 1200 mm
MX multi-pro 5V400/500-S	400/500 kW	590/740 A	1200 mm 1200 mm
MX multi-pro 5V500/630-S	500/630 kW	740/900 A	1200 mm 1200 mm

>pDRIVE< MX pro 6V 690V

Built-in devices			
>pDRIVE<	Motor power P1/P2 @ 690 V	Output current I1/I2 @ 690 V	Dimensions W x H x D
MX pro 6V2.2/3.0	2.2/3.0 kW	4.0/4.5 A	240 x 420 x 236 mm
MX pro 6V3.0/4.0	3.0/4.0 kW	4.5/5.5 A	240 x 420 x 236 mm
MX pro 6V4.0/5.5	4.0/5.5 kW	5.5/7.5 A	240 x 420 x 236 mm
MX pro 6V5.5/7.5	5.5/7.5 kW	7.5/10 A	240 x 420 x 236 mm
MX pro 6V7.5/11	7.5/11 kW	10/13.5 A	240 x 420 x 236 mm
MX pro 6V11/15	11/15 kW	13.5/18.5 A	240 x 420 x 236 mm
MX pro 6V15/18	15/18.5 kW	18.5/24 A	240 x 420 x 236 mm
MX pro 6V18/22	18.5/22 kW	24/27 A	240 x 420 x 236 mm
MX pro 6V22/30	22/30 kW	27/35 A	240 x 420 x 236 mm
MX pro 6V30/37	30/37 kW	35/43 A	320 x 630 x 290 mm
MX pro 6V37/45	37/45 kW	43/54 A	320 x 630 x 290 mm
MX pro 6V45/55	45/55 kW	54/62 A	320 x 630 x 290 mm
MX pro 6V55/75	55/75 kW	62/84 A	320 x 630 x 290 mm
MX pro 6V75/90	75/90 kW	84/104 A	320 x 630 x 290 mm
MX pro 6V90/110	90/110 kW	104/125 A	330 x 950 x 377 mm
MX pro 6V110/132	110/132 kW	125/150 A	330 x 950 x 377 mm
MX pro 6V132/160	132/160 kW	150/180 A	330 x 950 x 377 mm
MX pro 6V160/200	160/200 kW	180/220 A	330 x 950 x 377 mm
MX pro 6V200/250	200/250 kW	220/290 A	585 x 950 x 377 mm
MX pro 6V250/315	250/315 kW	290/355 A	585 x 950 x 377 mm
MX pro 6V315/400	315/400 kW	355/420 A	585 x 950 x 377 mm
MX pro 6V400/500	400/500 kW	420/543 A	1110 x 1150 x 377 mm
MX pro 6V500/630	500/630 kW	543/675 A	1110 x 1150 x 377 mm
MX pro 6V630/800	630/800 kW	675/840 A	1110 x 1150 x 377 mm
Cubicle devices			
Mains voltage	3-phase 690 V –15/+10%; 50 Hz ±5%		
Dimensions	IP23 "Standard": Cubicle depth: 600 mm; Cubicle height: 2155 mm IP54 "Compact": Cubicle depth: 600 mm; Cubicle height: 2260 mm		
Ambient temperature	0... +40°C, up to 50°C with power derating		
>pDRIVE<	Motor power P1/P2 @ 690 V	Output current I1/I2 @ 690 V	Cubicle width IP23 Standard IP54 Compact
MX multi-pro 6V22/30-S	22/30 kW	27/35 A	600 mm 600 mm
MX multi-pro 6V30/37-S	30/37 kW	35/43 A	600 mm 600 mm
MX multi-pro 6V37/45-S	37/45 kW	43/54 A	600 mm 600 mm
MX multi-pro 6V45/55-S	45/55 kW	54/62 A	600 mm 600 mm
MX multi-pro 6V55/75-S	55/75 kW	62/84 A	600 mm 600 mm
MX multi-pro 6V75/90-S	75/90 kW	84/104 A	600 mm 600 mm
MX multi-pro 6V90/110-S	90/110 kW	104/125 A	600 mm 600 mm
MX multi-pro 6V110/132-S	110/132 kW	125/150 A	600 mm 600 mm
MX multi-pro 6V132/160-S	132/160 kW	150/180 A	600 mm 600 mm
MX multi-pro 6V160/200-S	160/200 kW	180/220 A	600 mm 600 mm
MX multi-pro 6V200/250-S	200/250 kW	220/290 A	800 mm 800 mm
MX multi-pro 6V250/315-S	250/315 kW	290/355 A	800 mm 800 mm
MX multi-pro 6V315/400-S	315/400 kW	355/420 A	800 mm 800 mm
MX multi-pro 6V400/500-S	400/500 kW	420/543 A	1200 mm 1200 mm
MX multi-pro 6V500/630-S	500/630 kW	543/675 A	1200 mm 1200 mm
MX multi-pro 6V630/800-S	630/800 kW	675/840 A	1200 mm 1200 mm