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Compact, Intelligent and Powerful Industrial Servo Drives & Drive/Controllers

With its high-performance and modular design, the Compax3 family of industrial servo drives and drive/controllers offers a new level of servo performance and flexibility. The modular capacity of the Compax3 family allows options such as intelligent motion controllers, fieldbus interfaces and industry standard motor feedback. In addition, numerous expansion options can be added to the standard product in order to optimize the capabilities required for today's demanding servo applications.

Compax3 Features

- Available in both 120/240 VAC and 480 VAC input versions
- Current output from 2.5 A (rms) continuous to 30 A (rms) continuous
- Resolver encoder or high-resolution SinCos® Absolute rotary encoder feedback (single- or multi-turn)
- Internal regeneration circuitry; external resistor connections for additional power dissipation
- Easy-to-use wizards-based configuration and programming via C3 ServoManager™ software package
- Full diagnostic, tuning and 4-channel oscilloscope tools provided in the standard C3 ServoManager™ software
- CE (EMC & LVD), UL, cUL approval



T10 Features

- Base servo drive
- ±10 V analog
- Step and direction
- Torque/velocity control
- Position control
- Encoder tracking

T11 Features

- Base indexer drive
- Up to 31 stored profiles
- Profile select via digtial inputs
- Multi-profile sequences
- Profibus
- CANopen

T30 Features

- Full-featured programmable drive/controller
- IEC61131-3 programming flexibility
- PLCopen, Parker motion function blocks
- Complex motion
- Profibus
- CANopen

T40 Features

- T30 programming capability
- Electronic cam control
- Electronic gearing
- Position capture
- Profibus
- CANopen
- HEDA

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Compax3 T10

Basic Drive

The Compax3 T10 technology level is a compact industrial digital servo drive available in six power levels producing up to 30 A (rms) continuous current and covering a broad range of input voltages. The T10 is the base drive model and is designed for use with an external motion controller in centralized motion control systems. This model accepts both ±10 V analog command signals and step-and-direction command signals for operating as a torque, velocity or position control drive.

The Compax3 is easily configurable via RS232/485 using Parker's C3 ServoManager™ software running on a PC or by utilizing the optional BDM keypad interface module. Using the C3 ServoManager software could not be easier. All setup is accomplished via intuitive drive configuration wizards and basic information of the application.

Although the Compax3 T10 uses standard resolver feedback, it can also be equipped with quadrature encoder or high-resolution SinCos® Hiperface™ encoder with feedback capability.

Compax3 T10 Features

- 120 - 480 VAC power input range
- Continuous current output from 2.5 Arms to 30 A (rms)
- Resolver, encoder or high-resolution SinCos encoder feedback
- ±10 V analog command signals
- Step-and-direction command signals
- Torque, velocity or position control modes
- Encoder tracking capability
- CE (EMC & LVD), UL and cUL



Compax3 T10 Part Numbering System

S063 V2 | F10 | I10 T10 | M00

Continuous Current/Input Voltage

S025 V2 - 2.5 A (rms) / 120 - 240 VAC
S063 V2 - 6.3 A (rms) / 120 - 240 VAC
S038 V4 - 3.8 A (rms) / 208 - 480 VAC
S075 V4 - 7.5 A (rms) / 208 - 480 VAC
S150 V4 - 15 A (rms) / 208 - 480 VAC
S300 V4 - 30 A (rms) / 208 - 480 VAC

Feedback

F10 - Resolver
F11 - SinCos
F12 - Quadrature encoder/ linear encoder

Interface Technology (Control) Level

I10 T10 - Drive only

Options

M00 - No options

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Compax3 T11

Basic Indexer Drive

The Compax3 T11 technology level is a compact industrial digital servo drive available in six power levels producing up to 30 A (rms) continuous current and covering a broad range of input voltages. The T11 is a basic drive with indexing functionality capable of retaining up to 31 motion profiles in memory. T11 to act as a simple position controller via its eight onboard inputs and four onboard outputs. Acceleration, deceleration, target speed, target position and jerk (S-curve) are all user-configurable for each profile. Individual motion profiles are assigned a binary input mask and are triggered when the appropriate input pattern is set or via internal control bit manipulation from the optional fieldbus interfaces.

The Compax3 is easily configurable via RS232/485 using Parker's C3 ServoManager™ software running on a PC or by utilizing the optional BDM keypad interface module. Using the C3 ServoManager software could not be easier. All setup is accomplished via intuitive drive configuration wizards and basic information of the application.

Although the Compax3 T11 uses standard resolver feedback, it can also be equipped with quadrature encoder or high-resolution SinCos® Hiperface™ encoder with superior multi-turn absolute feedback capability.

Compax3 T11 Features

- 120 - 480 VAC power input range
- Continuous current output from 2.5 A (rms) to 30 A (rms)
- Resolver, encoder or high-resolution SinCos Absolute encoder feedback (single- or multi-turn)
- Up to 31 move profiles storable in non-volatile flash memory
- Absolute or relative positioning
- Start, stop, quit/pause and limit inputs
- "In position" output
- Jogging capability
- Dynamic positioning – allows the changing target position during move
- Electronic gearing
- Homing/Machine Zero functionality
- Adjustable jerk (S-curve) limitation
- Optional fieldbus interfaces
- CE (EMC & LVD), UL and cUL



Compax3 T11 Part Numbering System

S063 V2 F10 I11 T11 M00

Continuous Current/Input Voltage

S025 V2 - 2.5 A (rms) / 120 - 240 VAC
S063 V2 - 6.3 A (rms) / 120 - 240 VAC
S038 V4 - 3.8 A (rms) / 208 - 480 VAC
S075 V4 - 7.5 A (rms) / 208 - 480 VAC
S150 V4 - 15 A (rms) / 208 - 480 VAC
S300 V4 - 30 A (rms) / 208 - 480 VAC

Feedback

F10 - Resolver
F11 - SinCos Absolute
F12 - Quadrature encoder/ linear encoder

Interface Technology (Control) Level

I11 T11 - Positioning via digital inputs
I12 T11 - Positioning via digital inputs and expansion options
I20 T11 - Positioning via Profibus
I21 T11 - Positioning via CANopen

Options

M00 - No options
M12 - Additional onboard I/O (I12 T11 only)

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Compax3 T30

Drive/Controller

The Compax3 T30 technology level is a compact industrial digital servo drive available in six power levels producing up to 30 A (rms) continuous current and covering a broad range of input voltages. The T30 is a servo drive with fully programmable IEC61131-3 motion controller capability. The IEC61131-3 programming enivronment offers the ultimate in programming flexibility and power. Compax3 T30 users may choose their application code from any of six graphical or text-based languages. Users have the freedom to develop their application in whichever programming style they are most comfortable; or, if desired, they may use any combination of these languages within the same application project. The motion capabilities of the Compax3 T30 are easily available to the user via PLCopen standard function blocks as well as more complex motion function blocks supplied by Parker Hannifin. Optional fieldbus interfaces allow simple and effective data exchange to higher-level systems.

The Compax3 is easily configurable via RS232/485 using Parker's C3 ServoManager™ software running on a PC or by utilizing the optional BDM keypad interface module. Using the C3 ServoManager software could not be easier. All setup is accomplished via intuitive drive configuration wizards and basic information of the application. The CoDeSys IEC programming editor can also be launched directly from the C3 ServoManager software.

Although the Compax3 T30 uses standard resolver feedback, it can also be equipped with quadrature encoder or high-resolution SinCos® Hiperface™ encoder with single- or multi-turn absolute feedback capability.

Compax3 T30 Features

- 120 - 480 VAC power input range
- Continuous current output from 2.5 A (rms) to 30 A (rms)
- Resolver, encoder or high-resolution SinCos Absolute encoder feedback (single- or multi-turn)
- Fully programmable IEC61131-3 single-axis drive/controller
- PLCopen and Parker motion function blocks
- 6 programming languages to choose from – CFC, LD, FBD, SFC, ST and IL
- Program memory – more than 5000 instruction lines
- High-level motion capability and machine control capability in one package
- 8 digital inputs/4 digital outputs
- Optional expansion I/O – additional 12 digital I/O points configurable for inputs or outputs
- Optional fieldbus interfaces
- CE (EMC & LVD), UL and cUL

Compax3 T30 Part Numbering System



Continuous Current/Input Voltage

S025 V2 - 2.5 A (rms) / 120 - 240 VAC
S063 V2 - 6.3 A (rms) / 120 - 240 VAC
S038 V4 - 3.8 A (rms) / 208 - 480 VAC
S075 V4 - 7.5 A (rms) / 208 - 480 VAC
S150 V4 - 15 A (rms) / 208 - 480 VAC
S300 V4 - 30 A (rms) / 208 - 480 VAC

Feedback

F10 - Resolver
F11 - SinCos Absolute encoder (Hiperface)
F12 - Quadrature encoder/ linear encoder

Interface Technology (Control) Level

I11 T30 - IEC with Digital I/O
I20 T30 - IEC with DI/O + Profibus
I21 T30 - IEC with DI/O + CANopen

Options

M00 - No options
M12 - Additional onboard I/O

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IEC61131-3

Programming Environment

IEC61131-3 is a manufacturer-independent programming enivronment for industrial automation devices. This porgramming interface brings tremendous flexibility to the user as well as worldwide recognition and support. The IEC61131-3 programmer may choose from five standard languages, both graphical and text-based, in order to develop the code for their application. The language they are most comfortable with may be the language the use to program their device.

The graphical languages include:

- Ladder diagram (LD)
- Function block diagram (FBD)
- Sequential function chart (SFC)

The text-based languages include:

- Structured text (ST)
- Instruction list (IL)

The standard IEC61131-3 programming language has gone beyond establishing itself in PLC systems in the last few years. Today it is also frequency used for PCs, SCADA systems and also motion control systems. The intelligent drive/controller versions of the Compax3 family use the IEC61131-3 interface to provide users with new levels of flexibility and power in their motion application.

Motion Block Libraries for Compax3

T30 and T40

Parker makes IEC61131-3 programming for the Compax3 use even easier by providing motion-specific function block libraries, which are included with every Compax3 T30 and T40 product. These function block libraries allow users to insert pre-defined motion functions into their IEC project by selecting the desired function from a pull-down table, thus eliminating the need to program these functions manually. These libraries consist of function blocks created by both Parker and PLCopen™, a product- and company-independent organization that plays a significant role in supporting the IEC61131-3 programming language. Some examples of the available Compax3 function modules include:

- Absolute motion
- Incremental (relative) motion
- Continuous motion
- Superimposed motion
- Homing
- Drive enable
- Stop motion
- Drive status / error clearing
- Ratio following
- Electronic cam selection
- And dozens more!

IEC61131-3 Features

- Five programming languages to choose from for ease of use
- Worldwide support for programming languages
- Program portability
- Multiple languages may be combined within a single project
- Minimal training and support effort
- Portability from one application project to another project
- IEC programming editor built into the standard C3 ServoManager software



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Compax3 T40

Drive/Controller

The Compax3 T40 technology level is a compact industrial digital servo drive available in six power levels producing up to 30 A (rms) continuous current and covering a broad range of input voltages. The T40 is a servo drive with fully programmable IEC61131-3 motion controller and advanced electronic camming and gearing capabilities.

The Compax3 T40 represents the ultimate in programming flexiblity and power in the Compax3 drive family. In addition to al of the programming capabilities of the Compax3 T30, the T40 includes electronic gearing and cam control capabilities, position capture and programmable limit switch (PLS) functionality. Electronic cams are created using the powerful, wizard-based cam designer tool built into the C3 ServoManager™ software package. The T40 supports a number of master signals, including an internal "virtual master." All this can be combined with Parker's optional HEDA interface, a high-speed, real-time following bus specifically designed for line-shifting or multi-axis following applications using Compax3 drives. The motion capabilities of the Compax3 T40 are easily available to the user via PLCopen standard function blocks as well as more complex motion function blocks supplied by Parker Hannifin. Optional fieldbus interfaces allow simple and effective data exchange to higher-level systems.

The Compax3 is easily configurable via RS232/485 using Parker's C3 ServoManager™ software running on a PC or by utilizing the optional BDM keypad interface module. Using the C3 ServoManager software could not be easier. All setup is accomplished via intuitive drive configuration wizards and basic information of the application.

Although the Compax3 T40 uses standard resolver feedback, it can also be equipped with quadrature encoder or high-resolution SinCos® Hiperface™ encoder with feedback capability.

Compax3 T40 Features

- 120 - 480 VAC power input range
- Continuous current output from 2.5 A (rms) to 30 A (rms)
- Resolver, encoder or high-resolution SinCos Absolute encoder feedback (single- or multi-turn)
- Fully programmable IEC61131-3 single-axis drive/controller
- PLCopen motion function blocks
- 6 programming languages to choose from – CFC, LD, FBD, SFC, ST and IL
- Electronic camming and gearing
- Virtual master capability
- High-speed position capture
- Programmable limit switches (PLS)
- Optional HEDA following bus
- Optional expansion I/O – 12 digital I/O points configurable for inputs or outputs
- Optional fieldbus interfaces
- CE (EMC & LVD), UL and cUL



Compax3 T40 Part Numbering System

S063 V2 F10 I1I T40 M00

Continuous Current/Input Voltage

S025 V2 - 2.5 A (rms) / 120 - 240 VAC
S063 V2 - 6.3 A (rms) / 120 - 240 VAC
S038 V4 - 3.8 A (rms) / 208 - 480 VAC
S075 V4 - 7.5 A (rms) / 208 - 480 VAC
S150 V4 - 15 A (rms) / 208 - 480 VAC
S300 V4 - 30 A (rms) / 208 - 480 VAC

Feedback

F10 - Resolver
F11 - SinCos Absolute encoder
F12 - Quadrature encoder/ linear encoder

Interface Technology (Control) Level

I11 T40 - IEC with Digital I/O
I20 T40 - IEC with DI/O + Profibus
I21 T40 - IEC with DI/O + CANopen

Options

M00 - No options
M10 - HEDA/additional onboard I/O
M11 - HEDA
M12 - Additional onboard I/O

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Compax3 S0XX V2 Specifications

Specifications	S025 V2	S063 V2
Drive Input Power		
Voltage	80-253 VAC	80-253 VAC
Phase	1Ø	1Ø
Frequency	50/60 Hz	50/60 Hz
24 VDC Logic Power (Required)	24 VDC ±15%	24 VDC ±15%
Drive Output Power		
PWM	8/16 kHz (selectable)	8/16 kHz (selectable)
Continuous Current (RMS)	2.5 Amps	6.3 Amps
Peak Current (RMS)	5 Amps	12.6 Amps
Commutation	Sinusoidal	Sinusoidal
Performance		
Torque Loop	62.5 micro seconds	
Velocity Loop	125 micro seconds	
Position Loop	125 micro seconds	
Command Inputs (T10 only)		
Velocity and Torque Mode	14 bit, ±10 VDC Analog	
Position Mode	Step & Direction; 5V or 24 V level (300 kHz input frequency)	
Onboard Inputs		
Type	Sinking, 24 V nom. @ 10 mA, high = 9-32 V, low <8 V	
Functions		
Ixx T10 (4 dedicated)	Drive stage enable, control input enable, reset, motor brake enable	
Ixx T11 (8 dedicated)	Motion interrupt, Start, Drive Stage enable + 5 motion profile select inputs (or 4 inputs with a home input)	
Ixx T30 (8 programmable*)	User definable via CoDeSys programming environment	
Ixx T40 (8 programmable*)	User definable via CoDeSys programming environment	
Onboard Outputs		
Type	PNP type, sourcing only, rated for 24 V @ 100 mA, short-circuit protected	
Functions		
Ixx T10 (4 dedicated)	No fault, drive enabled, in position window, at zero point	
Ixx T11 (4 dedicated)	No fault, position reached, power stage active, at zero point	
Ixx T30 (4 programmable*)	User definable via CoDeSys programming environment	
Ixx T40 (4 programmable*)	User definable via CoDeSys programming environment	
Encoder	Programmable up to 16,384 ppr (pre-quadrature)	
Relay	Normally closed, dry contact (switching current: 10-300 mA, switching voltage [AC/DC]: 100 mV-60 V)	
Communications		
Type	RS232 (3-wire) on RS485 (2- or 4-wire); 8-bit word length, 1 stop bit, no parity	
Baud Rate	Fixed at 115.8 Kbaud for RS232; adjustable for RS485	
Multi-drop (RS485)	Up to 255 nodes	
Profibus**	DPV0, DPV1 supported; selectable Baud rate, 12 Mbd maximum transmission speed	
CANopen**	DCiA, DS402 supported; selectable Baud rate, 1 Mbd maximum transmission speed	
Environmental		
Temperature	Still air: 33-113°F (0-45°C); moving air: 33-122°F (0-50°C)	
Humidity	0-75%, non-condensing	
IP Class	IP 20 protection class; IP 54 option available	
Protection		
Short Circuit	Phase-to-phase, phase-to-ground	
Brownout	Below 80 VDC	
Over Voltage	Will shut down when power dissipation capacity is exceeded	
Over Temperature	Motor 330°F (170°C), Drive 85°F (185°C)	
$I_2 t$	Error generated if peak current > 3 seconds	
Safety Isolation	VDE0160	
Standards	UL, cUL, CE (EMC), CE (LVD)	
Internal Regeneration Capacities/Storable Energy		
	Compax3 S025 V2: 560 µF / 15Ws	
	Compax3 S063 V2: 1,120 µF / 30Ws	
	Compax3 S038 V4: 235 µF / 37Ws	
	Compax3 S075 V4: 470 µF / 75Ws	
	Compax3 S150 V4: 690 µF / 110Ws	
	Compax3 S300 V4: 1,100 µF / 176Ws	

* 12 additional I/O points available as an option
** Applicable only to models supporting this option

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Compax3 SXXX V4 Specifications

Specifications	S038 V4	S075 V4	S150 V4	S300 V4
Drive Input Power				
Voltage	80-525 VAC	80-525 VAC	80-525 VAC	80-525 VAC
Phase	3Ø	3Ø	3Ø	3Ø
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
24 VDC Logic Power (Required)	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%
Drive Output Power				
PWM	8/16 kHz (selectable)	8/16 kHz (selectable)	4/8/16 kHz (selectable)	4/8/16 kHz (selectable)
Continuous Current (RMS)	3.8 Amps	7.5 Amps	15 Amps	30 Amps
Peak Current (RMS)	7.5 Amps	15 Amps	30 Amps	60 Amps
Commutation	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal

Performance	
Torque Loop	62.5 micro seconds
Velocity Loop	125 micro seconds
Position Loop	125 micro seconds
Command Inputs (T10 only)	
Velocity and Torque Mode	14 bit, ±10 VDC Analog
Position Mode	Step & Direction; 5V or 24 V level (300 kHz input frequency)
Onboard Inputs	
Type	Sinking, 24 V nom. @ 10 mA, high = 9-32 V, low <8 V
Functions	
Ixx T10 (4 dedicated)	Drive stage enable, control input enable, reset, motor brake enable
Ixx T11 (8 dedicated)	Motion interrupt, Start, Drive Stage enable + 5 motion profile select inputs (or 4 inputs with a home input)
Ixx T30 (8 programmable*)	User definable via CoDeSys programming environment
Ixx T40 (8 programmable*)	User definable via CoDeSys programming environment
Onboard Outputs	
Type	PNP type, sourcing only, rated for 24 V @ 100 mA, short-circuit protected
Functions	
Ixx T10 (4 dedicated)	No fault, drive enabled, in position window, at zero point
Ixx T11 (4 dedicated)	No fault, position reached, power stage active, at zero point
Ixx T30 (4 programmable*)	User definable via CoDeSys programming environment
Ixx T40 (4 programmable*)	User definable via CoDeSys programming environment
Encoder	Programmable up to 16,384 ppr (pre-quadrature)
Relay	Normally closed, dry contact (switching current: 10-300 mA, switching voltage [AC/DC]: 100 mV-60 V)
Communications	
Type	RS232 (3-wire) on RS485 (2- or 4-wire); 8-bit word length, 1 stop bit, no parity
Baud Rate	Fixed at 115.8 Kbaud for RS232; adjustable for RS485
Multi-drop (RS485)	Up to 255 nodes
Profibus**	DPVO, DPV1 supported; selectable Baud rate, 12 Mbd maximum transmission speed
CANopen**	DCiA, DS102 supported; selectable Baud rate, 1 Mbd maximum transmission speed
Environmental	
Temperature	Still air: 33-113°F (0-45°C); moving air: 33-122°F (0-50°C)
Humidity	0-75%, non-condensing
IP Class	IP 20; IP 54 option available
Protection	
Short Circuit	Phase-to-phase, phase-to-ground
Brownout	Below 80 VDC
Over Voltage	Will shut down when power dissipation capacity is exceeded
Over Temperature	Motor 330°F (170°C), Drive 85°F (185°C)
I_2t	Error generated if peak current > 3 seconds
Safety Isolation	VDE0160
Standards	UL, cUL, CE (EMC), CE (LVD)
Internal Regeneration Capacities/Storable Energy	Compax3 S025 V2: 560 µF / 15Ws Compax3 S063 V2: 1,120 µF / 30Ws Compax3 S038 V4: 235 µF / 37Ws Compax3 S075 V4: 470 µF / 75Ws Compax3 S150 V4: 690 µF / 110Ws Compax3 S300 V4: 1,100 µF / 176Ws

* 12 additional I/O points available as an option
** Applicable only to models supporting this option

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Compax3 Options

Feedback Options	
F10	Standard resolver feedback support, SinCos® (Hiperface™) high-resolution encoder support Resolver position resolution: 16 bit; absolute accuracy: ± 0.167º SinCos position resolution: 21 bit; absolute accuracy: ± 0.005º
F12	Quadrature rotary/linear encoder, sine-cosine linear, distance-coded encoder feedback support Resolution, accuracy: dependent upon specification of encoder used
I20 Option	Profibus - DPV0, DPV1 (slave) Transmission speed: up to 12Mbd Available on T11, T30, T40 units
I21 Option	CANopen - DS402 (slave) Transmission speed: selectable (up to 1Mbd) Available on T11, T30, T40 units
Additional	
M10 Option	HEDA following bus and additional onboard I/O HEDA: Real-time following bus for line-shafting or multi-axis following applications Configurable as master or slave; up to 19 units supported on network Bus update rate: 500 microseconds (regardless of HEDA node count); 0.5 µs jitter Additional Onboard I/O: 12 I/O points, configurable as inputs or outputs in blocks of 4 (via software) User-defined functionality for all points
M11 Option	HEDA following bus only
M12Option	Additional onboard I/O only

Compax3 Accessories

Part Number	Product Description
Breakout Modules	
VM15-PM	15-pin breakout module and 2’ cable to Compax3 feedback or analog encoder
VM15-PF	15-pin breakout module and 2’ cable to Compax3 digital I/O
Connector Kits	
ZBH02/01	Replacement connector kit for Compax3 S025 V2, S063 V2 products
ZBH02/02	Replacement connector kit for Compax3 S038 V4, S075 V4, S150 V4 products
ZBH02/03	Replacement connector kit for Compax3 S300 V4 products
Communication Cable	
SSK1/02	8’ cable, RS232 null modem interface cable (PC to Compax3)
Braking Resistors	
BRM08/01	Braking resistor for Compax3 S025, S038 units (60 W continuous, 250 W peak)
BRM05/01	Braking resistor for Compax3 S063, S075 units (180 W continuous, 2300 W peak)
BRM06/01	Braking resistor for Compax3 S150 units (450 W continuous, 6900 W peak)
BRM04/01	Braking resistor for Compax3 S300 units (570 W continuous, 6800 W peak)
BRM04/02	Braking resistor for Compax3 S300 units (740 W continuous, 8900 W peak)
BRM04/03	Braking resistor for Compax3 S300 units (1500 W continuous, 18000 W peak)
Motor Filters	
MDR01/04	Compax3 motor output filter (rated up to 6.3 A continuous current motors)
MDR01/01	Compax3 motor output filter (rated up to 16 A continuous current motors)
MDR01/02	Compax3 motor output filter (rated up to 30 A continuous current motors)

Compax3 Accessory Quick Reference Chart

Compax3 Product	Product Description	ZBH	BRM	MDR
S025 V2	Compax3 drive, 2.5 A 1*230 V	02/01	08/01	01/04
S063 V2	Compax3 drive, 6.3 A 1*230 V	02/01	05/01	01/04
S038 V4	Compax3 drive, 3.8 A 3*400 V	02/02	08/01	01/04
S075 V4	Compax3 drive, 7.5 A 3*400/480 V	02/02	05/01	01/01
S150 V4	Compax3 drive, 15.0 A 3*400/480 V	02/02	06/02	01/01
S300 V4	Compax3 drive, 30.0 A 3*400/480 V	02/03	04/01	01/02

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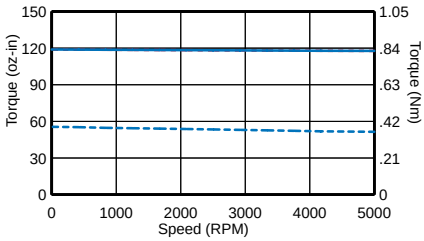
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Motor Speed-Torque Performance Curves

Compax3 with BE Motors – 23 and 34 frame, resolver feedback, 120/240 VAC

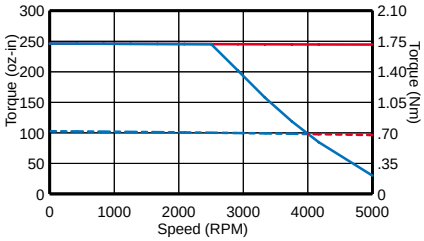
BE230DR/S025 V2

Icont (RMS) = 2.39, Ipk (RMS) = 7.2



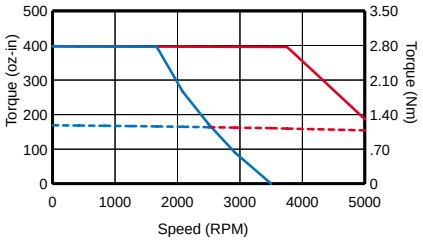
BE231DR/S025 V2

Icont (RMS) = 2.1, Ipk (RMS) = 6.3



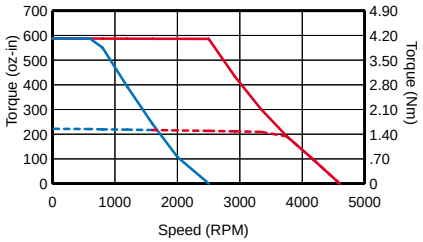
BE232DR/S025 V2

Icont (RMS) = 2.14, Ipk (RMS) = 6.4



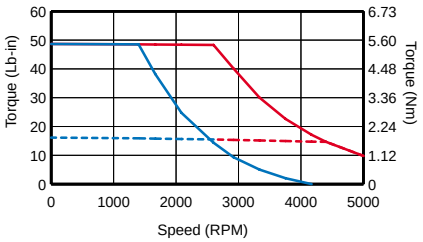
BE233DR/S025 V2

Icont (RMS) = 1.9, Ipk (RMS) = 5.7



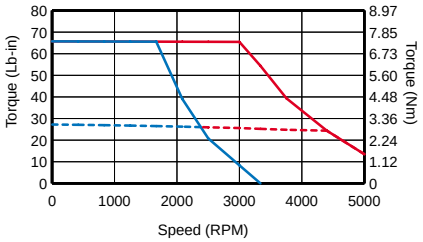
BE341FR/S063 V2

Icont (RMS) = 3.93, Ipk (RMS) = 11.8



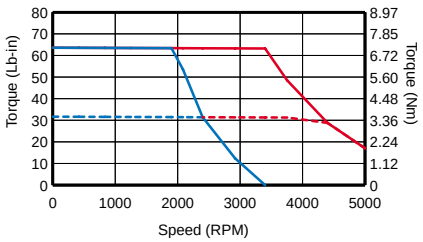
BE342HR/S063 V2

Icont (RMS) = 5.23, Ipk (RMS) = 15.7



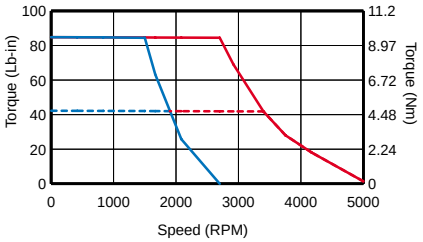
BE343JR/S063 V2

Icont (RMS) = 7.59, Ipk (RMS) = 22.8



BE344JR/S063 V2

Icont (RMS) = 6.92, Ipk (RMS) = 20.7





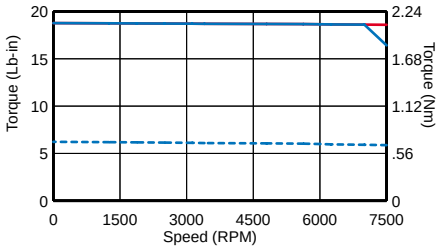
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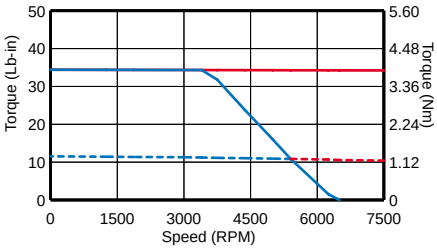
Motor Speed-Torque Performance Curves

Compax3 with NeoMetric and J Series Motors – 70mm and 92mm frame, resolver feedback, 120/240 VAC

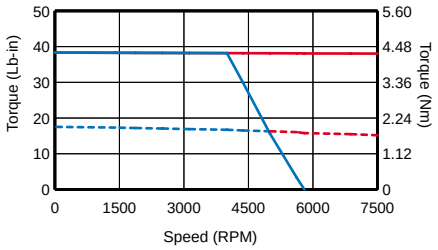
N0701FR/S063 V2



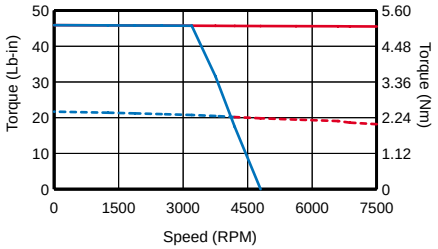
N0702FR/S063 V2



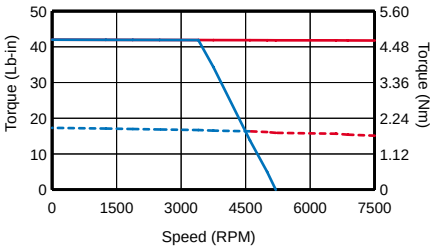
N0703GR/S063 V2



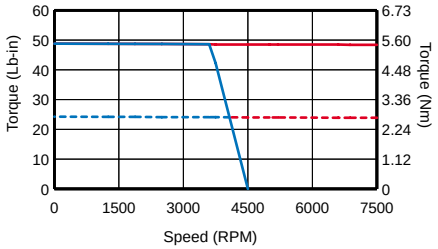
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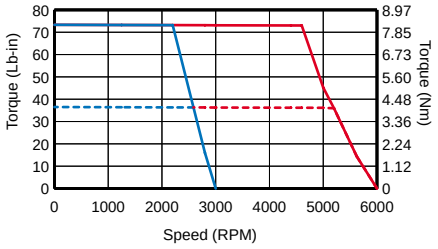
N0921GR/S063 V2



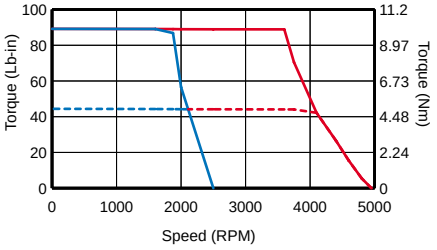
N0922JR/S063 V2

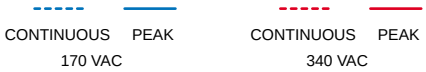


N0923HR/S063 V2



N0924JR/S063 V2





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Compax3 Accessories

Part Number	Product Description
Connectivity	
VM15-PM	15-pin breakout module and 2' cable to Compax3 feedback or analog encoder
VM15-PF	15-pin breakout module and 2' cable to Compax3 digital I/O
ZBH02/01	Replacement connector kit for Compax3 S025 V2, S063 V2 products
ZBH02/02	Replacement connector kit for Compax3 S038 V4, S075 V4, S150 V4 products
ZBH02/03	Replacement connector kit for Compax3 S300 V4 products
SSK1/02	8' cable, RS232 null modem interface cable (PC to Compax3)
BRM08/01	Power dissipation resistor for Compax3 S025, S038 units (60 W continuous, 250 W peak)
BRM05/01	Power dissipation resistor for Compax3 S063, S075 units (180 W continuous, 2300 W peak)
BRM06/01	Power dissipation resistor for Compax3 S150 units (450 W continuous, 6900 W peak)
BRM04/01	Power dissipation resistor for Compax3 S300 units (570 W continuous, 6800 W peak)
BRM04/02	Power dissipation resistor for Compax3 S300 units (740 W continuous, 8900 W peak)
BRM04/03	Power dissipation resistor for Compax3 S300 units (1500 W continuous, 18000 W peak)
MDR01/04	Compax3 motor output filter (rated up to 6.3 A continuous current motors)
MDR01/01	Compax3 motor output filter (rated up to 16 A continuous current motors)
MDR01/02	Compax3 motor output filter (rated up to 30 A continuous current motors)

Compax3 Accessory Reference Chart

Cont. Current	Product Description	ZBH	BRM	MDR
S025 V2	Compax3 drive, 2.5 A 1*230 V	02/01	08/01	01/04
S063 V2	Compax3 drive, 6.3 A 1*230 V	02/01	05/01	01/04
S038 V4	Compax3 drive, 3.8 A 3*400 V	02/02	08/01	01/04
S075 V4	Compax3 drive, 7.5 A 3*400/480 V	02/02	05/01	01/01
S150 V4	Compax3 drive, 15.0 A 3*400/480 V	02/02	06/02	01/01
S300 V4	Compax3 drive, 30.0 A 3*400/480 V	02/03	04/01	01/02

Operator Interface Options

BDM01/01 Compax2 hand-held diagnostic interface module

The BDM01/01 is a palm-sized, transportable diagnostic module that can be used to transmit drive configuration data to/from multiple Compax3 units, without the need for using a PC. BDM01/01 features include

- Transfer of drive configuration files to other Compax3 units* (download or upload)
- Online display of drive parameter, error status
- Online modification of drive parameters, such as error reset, jogging, motor brake open/close, etc.**
- Plugs into RS232 port; hot-swappable
- Multi-language capable

* Identical control level

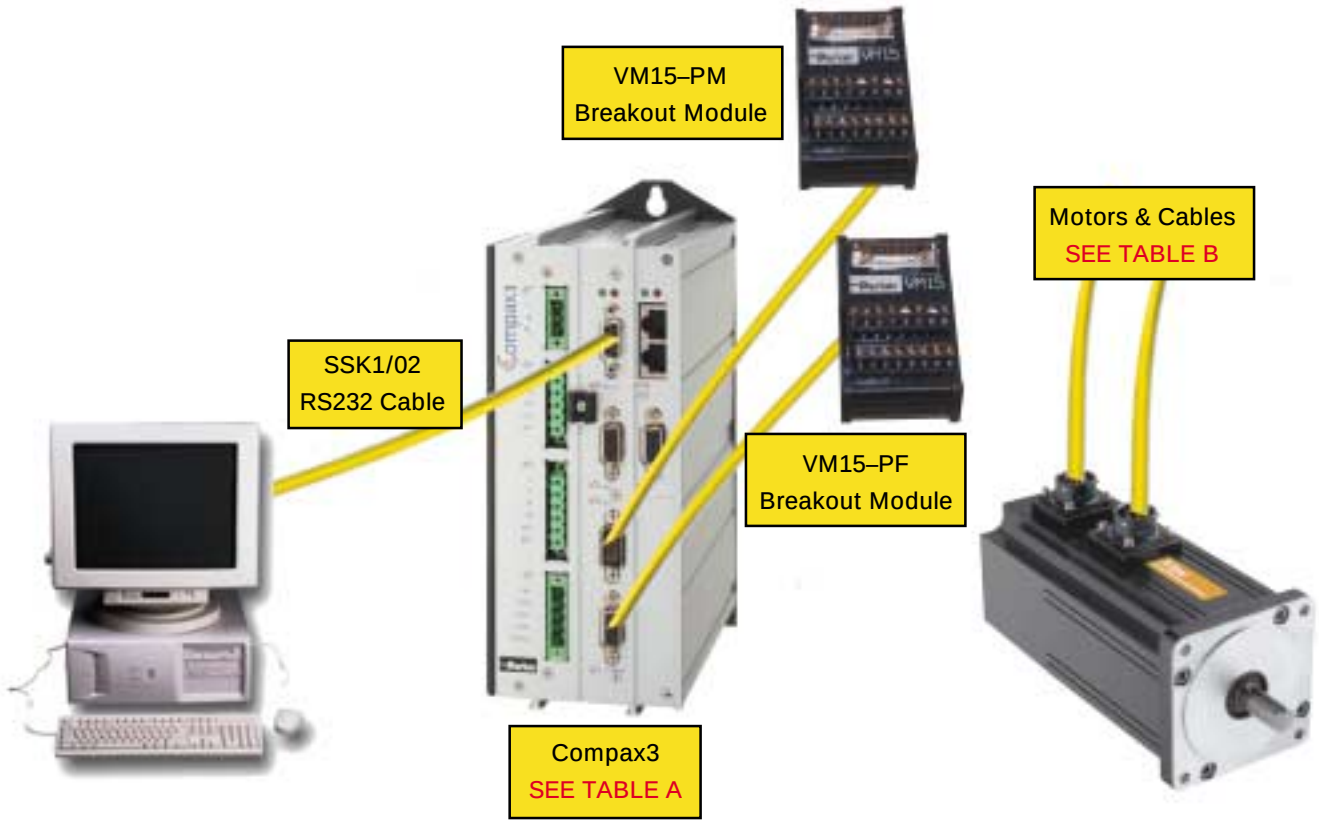
** Features depend on control level

POP Operator panels
CTC Motion Panel
CTC Interact / InteractX

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Ordering a Compax3 System



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Ordering a Compax3 System

Table A – Compax3 Order Code

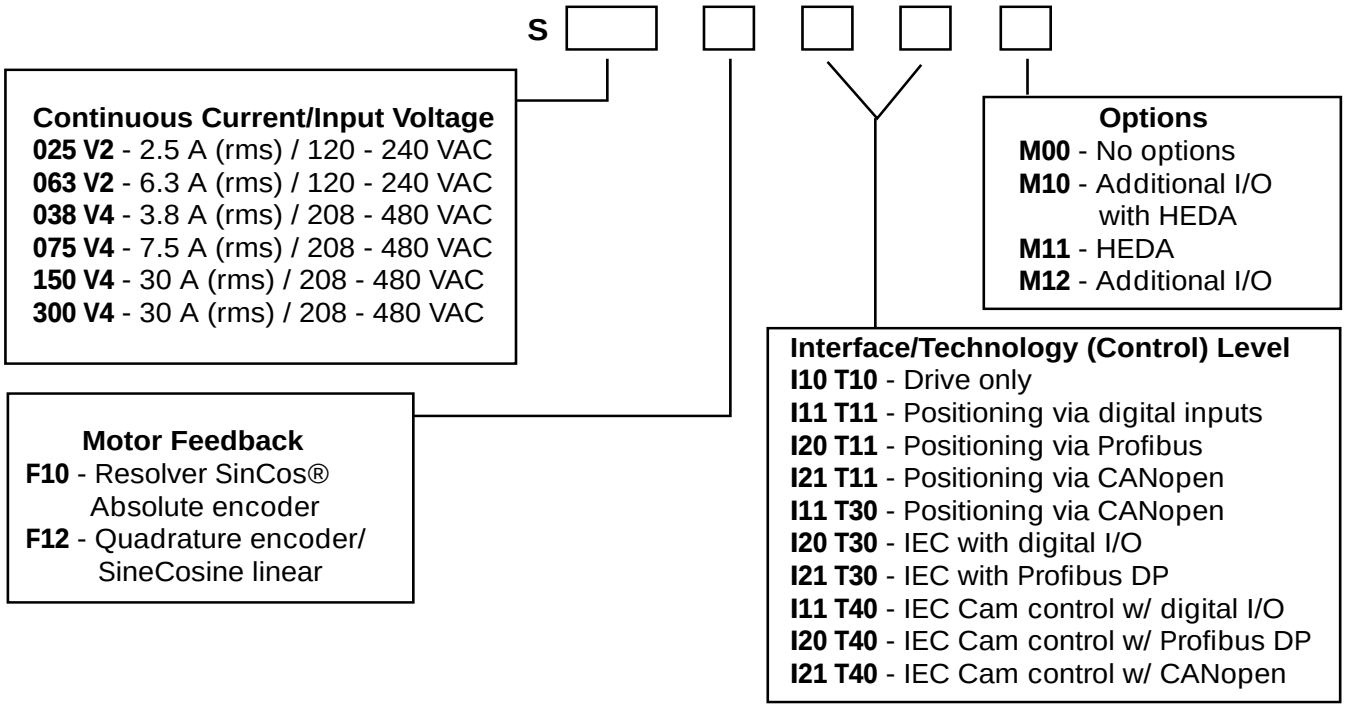


Table B – Servo Motor Power/Feedback Cables – *As Easy As 1 - 2 - 3!*

Compax3 PS Motor-Drive Cables

PS Feedback Cables

1. Choose Your Feedback Type	2. Choose Your Motor Family	3. Your Part Number is:
Resolver	• BE 23, 34 • NeoMetric/ J Series 34, 70, 92 • MaxPlus 40 - 190 • M Series 105 - 205 • SMN 60 - 142	**F-2B1-xx**
SinCos	• BE 34 • NeoMetric/ J Series 34, 70, 92 • MaxPlus 72 - 190 • M Series 105 - 205 • SMN 60 - 142	**F-2B1-xx**
Encoder	• BE 23, 34 • NeoMetric/ J Series 34, 70, 92 • MaxPlus 66 - 190 • M Series 105 - 205 • SMN 60 - 142	**F-2C1-xx**

PS Motor Power Cables

1. Choose Your Motor Current	2. Choose Your Motor Family	3. Your Part Number is:
Up to 6A RMS continuous (240VAC only)	• BE 23 • NeoMetric, J Series (34, 70mm)	**P-1A1-xx**
Up to 20A RMS continuous (240 or 480V)	• BE NEMA 34 • NeoMetric, J Series (92mm) • MaxPlus (72 - 114mm) • M Series • SMN Series	**P-3B1-xx**
20A to 30A RMS (240 or 430V)	• M Series (105, 145mm)	**P-4B1-xx**
20A to 30A RMS (240 or 480V	• M Series (205mm) • MaxPlus (142, 190mm)	**P-4B2-xx**
30A to 50A RMS (240 or 480V)	• M Series (205mm) • MaxPlus (142, 190mm)	**P-6B2-xx**

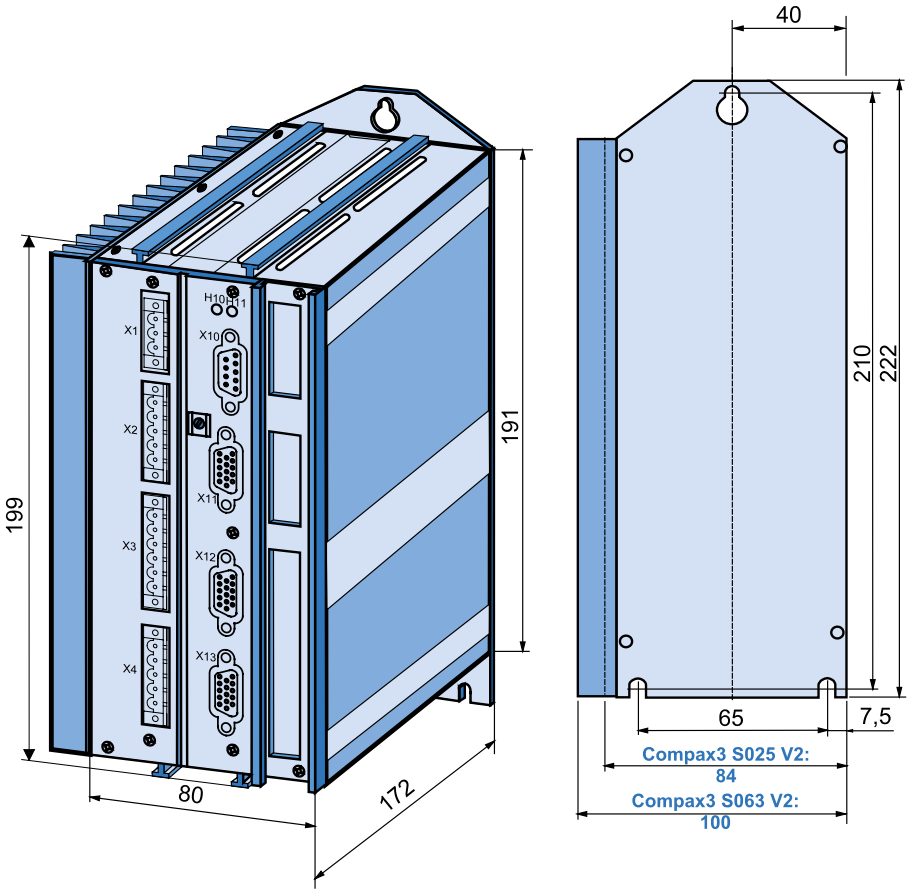
-XX denotes cable length in feet

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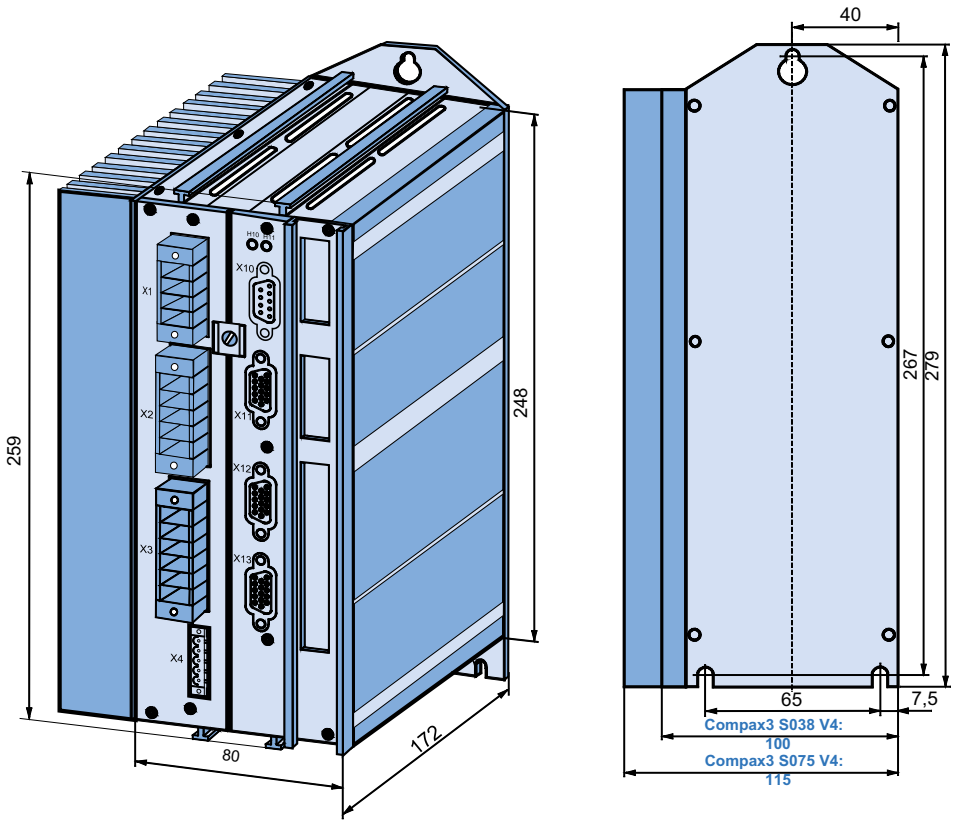
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Dimensional Drawings

S025 V2
S063 V2



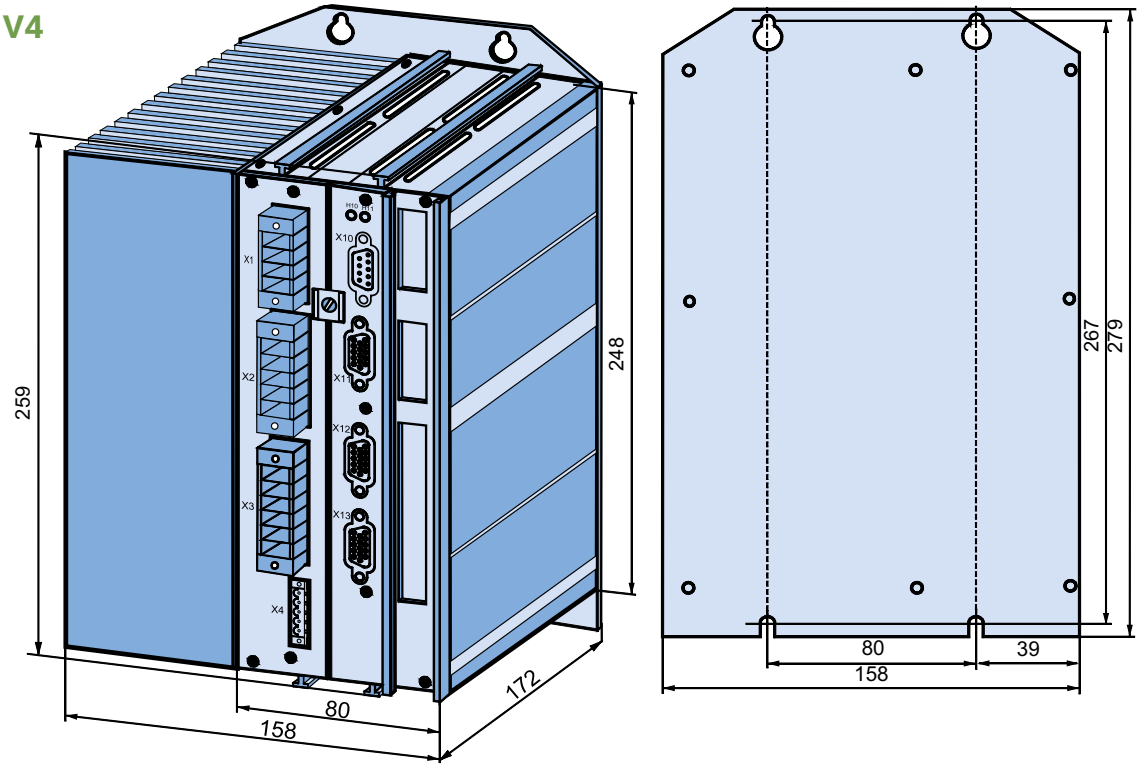
S038 V4
S075 V4



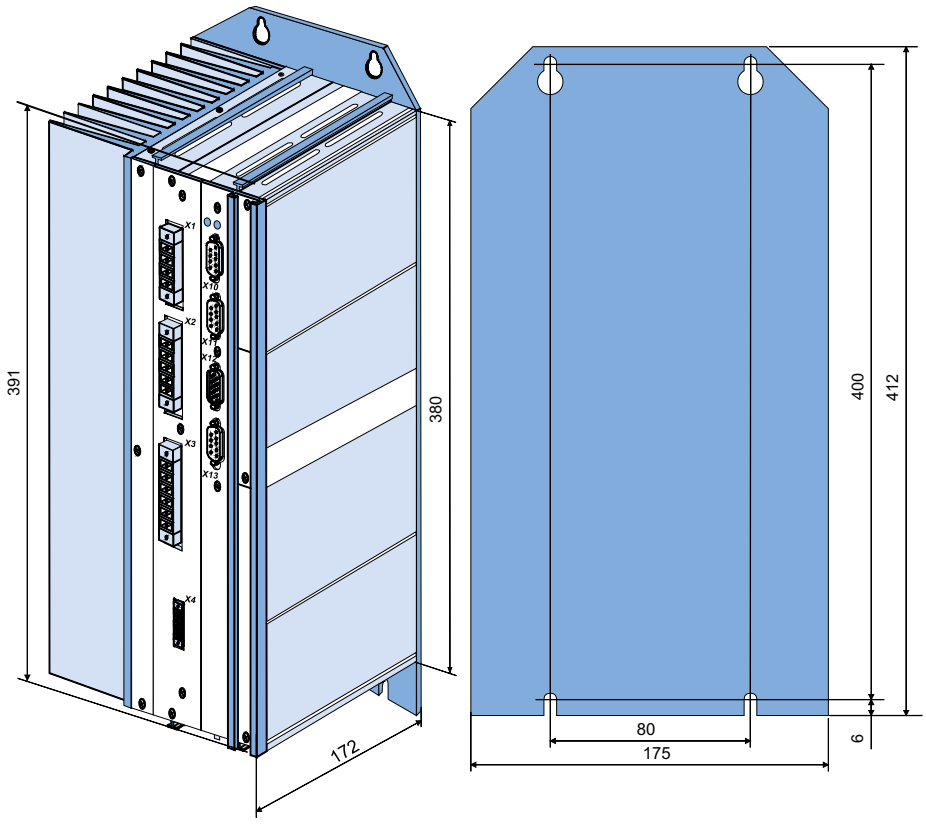
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Dimensional Drawings

S150 V4



S300 V4



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