



Decentralized Drives



About us

MSF-Vathauer Antriebstechnik GmbH & Co KG produces since 1978 mechanical, electrical and electronical drive technology in Detmold (Headquarters) and Oborniki (Poland), In this time MSF-Vathauer developed itselfes to the technology leader for decentralized drives.

MSF-Vathauer provides not only mechanical drives technology to its customers. The focus is upon the development, manufacturing and sales of electronical drives.

Further provides MSF innovative solutions for saving energy resources like heat due to heat recovery with rotary heat exchanger and intelligent drives for conveying systems.

We are able to provide our customers a fast, flexible and suitable technical solution due to our high in-house production depth.

On approximately 6000 m² MSF-Vathauer research, develop and produce devices for the measurement and test engineering, for the control technique and for the drive technology.

Highly trained and motivated teams in our research and development department and at our production lines as soon as many years experience with the development and customising of drive technology guarantee your success.
We are train our employees, representatives and customers within own training facilities continuously.

Our own EMC-Laboratory guarantees a high EMC safety standard for all customised and standard devices.

We are looking forward to close and successful cooperation.

MSF-Vathauer Antriebstechnik GmbH & Co KG

Stand: November 2011

Frequency converter VECTOR 54 / 3-phase



Frequency converter VECTOR 54 / 3-phase

The Vector 54 is a Frequency Converter with a modulated attachment, which as a standard offers excellent market value for goods by using simple applications.

With extra integrated modules it can be alternated for a controlled drive with vector-control or upgraded to a positioning type. The device offers a protection class of IP 54.

The closed construction of the VECTOR 54 execution meets the increasing demand for decentralised driving components.

This converter is available from 0.75 kW till 3.0 kW 3-phase.

Advantages for the user

- No additional switch enclosure
- Direct mounting onto machines
- High protection class IP54
- Minimizing of switch enclosures
- Integrated operating elements
- Integrated signal buses (Profibus DP, AS-interface, etc)
- Integrated RS 232 interface
- Integrated main switch and set point potentiometer

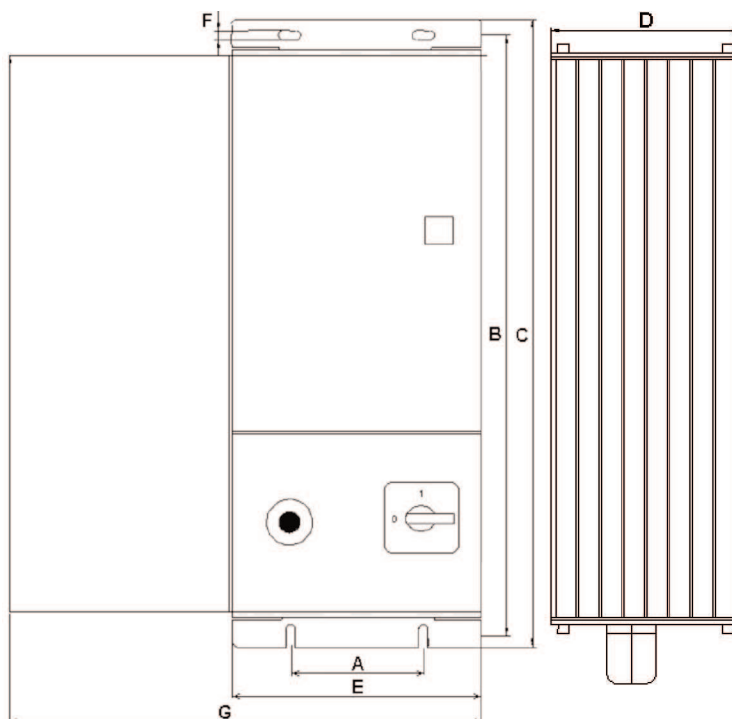
Especially to your application we implement following options

- Positioning module
- CANopen bus module
- Profi bus module
- Ethernet module
- Emergency stop button with undervoltage release switch
- Tailored Line In cable and motorcable
- Connectors for Line In, Motors and I/O's

Frequency converter VECTOR 54 / 3-phase

Type	Vector 54 750	Vector 54 1100	Vector 54 1500	Vector 54 2200
Order number	10 100001 0501	10 100001 0502	10 100001 0503	10 100001 0504
Output power	2,3 A	3,5 A	4,1 A	5,8 A
Motor power	0,75 kW	1,1 kW	1,5 kW	2,2 kW
Rated current	4 A	4,5 A	6,0 A	8,7A
Output voltage	3 x 400 V	3 x 400 V	3 x 400 V	3 x 400 V
Output frequency	0 – 400 Hz	0 – 400 Hz	0 – 400 Hz	0 – 400 Hz
Line In / Motor filter	Internal	Internal	Internal	Internal
Rated voltage	400 V	400 V	400 V	400 V
Protection class	IP 54	IP 54	IP 54	IP 54
Ambient temperature	0 – 40 °C	0 – 40 °C	0 – 40 °C	0 – 40 °C

subject to qualifications



Type	Dimensions VECTOR 54
A	65 mm
B	340 mm
C	350 mm
D	90 mm
E	112 mm
F	5 mm
G	210mm

MONO-SWITCH - Direct On-Line Motor starter

All motor starter switches the motors full electronically by power semiconductor.

By means alle motor starter uses machanical contactor or relais. This technology avoid operational faults and increases operating cycles for the conveying system which will becomes much more efficient and the service will reduced.

The motor starter MONO-SWITCH and DUO-SWITCH are different in following cases. The motor starter MONO-SWITCH switches and controll only one eletrical motor. The motor starter DUO-SWITCH switches and controll two different electrical motors seperately. Fruthermore the MONO-SOFT-SWITCH switches one electrical motor smooth. The DUO-SOFT-SWITCH switches two different motors smooth with adjustable run-up times and run-down-times.



MONO-SWITCH

This electronical motor starter MONO-Switch switches only one three-phase asynchronous motor ON and OFF. The MONO-Switch is available from 0.09KW to 3KW.

The connected motor is protected by the motor temperature monitoring. The motor temperature signal will transmitt to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The integrated motor connector meets the DESINA requirements and allows a fast, reliable and quick connection. Also pre-toilored cables can be connected. Due to the 8-pole connector, a break function is also available in the same connector.

The power supply can be realised by various energy distribution systems. In this case, MSF provides metric cable glands or suitable connectors for special energy distribution systems.

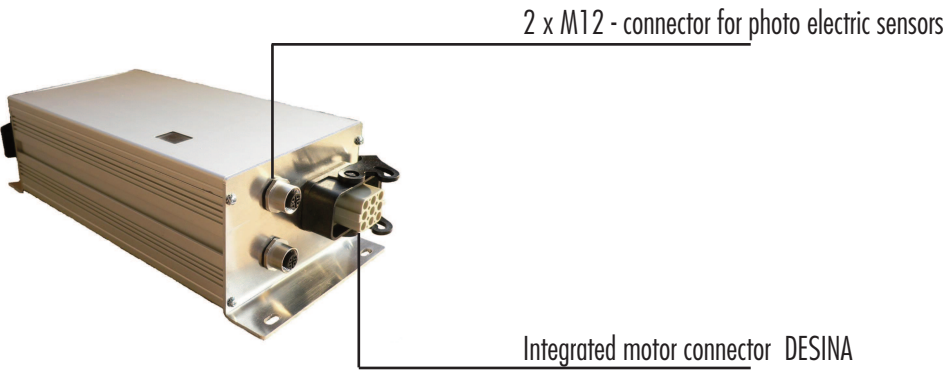
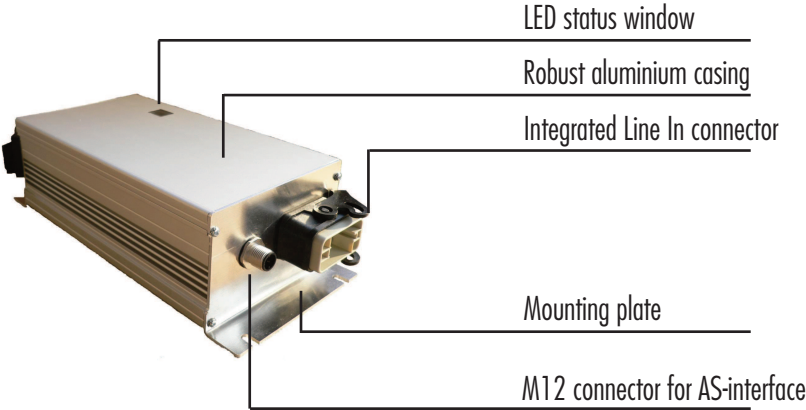


The integrated M12 connector allows to connect two photo electric sensors and the AS-interface version 2.1 or for 24V binary signals.

Fieldbus-Systems

- 24V binary (PLC)
- AS-Interface
- Further fieldbus-systems on request

MONO-SWITCH - Direct On-Line Motor starter



MONO-SWITCH - Direct On-Line Motor starter

Type	MONO-SWITCH 090	MONO-SWITCH 120	MONO-SWITCH 180	MONO-SWITCH 250	MONO-SWITCH 370	MONO-SWITCH 550	MONO-SWITCH 750
Order number							
Motor power	0,09 kW	0,12 kW	0,18 kW	0,25 kW	0,37 kW	0,55 kW	0,75 kW
Rated current	0,3 A	0,4 A	0,6 A	0,7 A	1,0 A	1,5 A	1,9 A
Rotation direction	Right direction						
Output voltage	3 x 400V						
Output frequency	50 Hz/ 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Motor temperature monitoring	PTC / PTO						
Signal bus	ASI or 24Vdc binary						
Sensors	2 x sensor M12 plug						
Connection AS-interface	M12 plug						
Break management	Direct 230Vac (Neutral must be integrated into the Energy Distribution System)						
Status signals	LED and Feldbus						

Typ	MONO-SOFT-SWITCH 1100	MONO-SOFT-SWITCH 1500	MONO-SOFT-SWITCH 2200
Order number			
Motor power	1,1 kW	1,5 kW	2,2 kW
Rated current	2,7 A	3,5 A	4,7 A
Rotation direction	Right direction		
Output voltage	3 x 400V		
Output frequency	50 Hz/ 60 Hz		
Rated voltage	400 V		
Protection class	IP 54		
Ambient temperature	0 – 40 °C		
Motor temperature monitoring	PTC / PTO		
Signal bus	ASI or 24Vdc binary		
Sensors	2 x sensor M12 plug		
Connection AS-interface	M12 plug		
Break management	Direct 230Vac (Neutral must be integrated into the Energy Distribution System)		
Status signals	LED and Feldbus		

DUO-SWITCH - Direct On-Line Motor starter



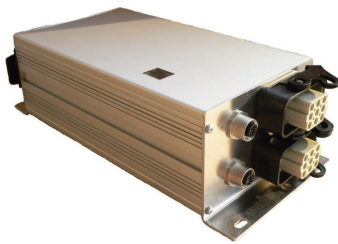
DUO-SWITCH

This electronic motor starter DUO-Switch switches two three-phase asynchronous motor ON and OFF separately. The DUO-Switch is available from 2 x 0.09KW to 2 x 0.75 kW

The connected motor is protected by the motor temperature monitoring for each motor. The motor temperature signal will transmit to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The integrated motor connector meets the DESINA requirements and allows a fast, reliable and quick connection for each motor. Also pre-tooled cables can be connected. Due to the 8-pole connector, a break function is also available in the same connector.

The power supply can be realised by various energy distribution systems. In this case, MSF provides metric cable glands or suitable connectors for special energy distribution systems.

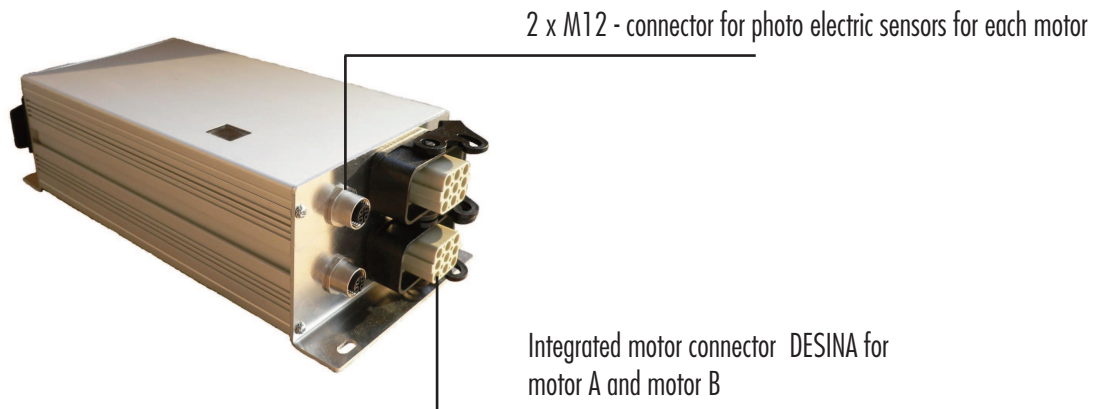
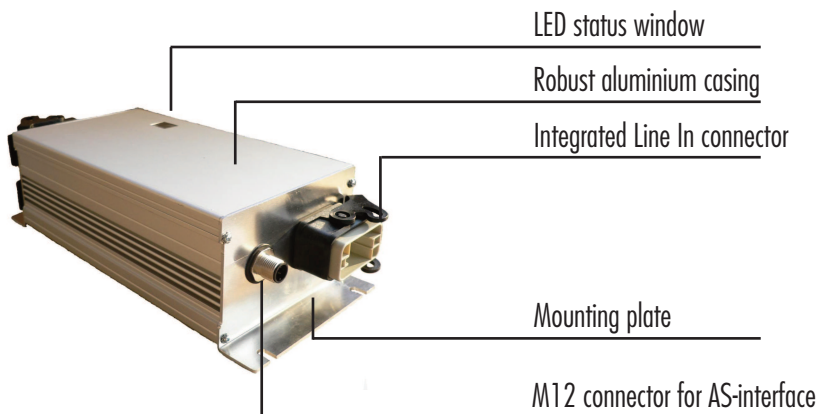


The integrated M12 connector allows to connect one photo electric sensor for each motor and the AS-interface version 2.1 or for 24V binary signals.

Fieldbus-Systems

- 24V binary (PLC)
- AS-Interface
- Further fieldbus-systems on request

DUO-SWITCH - Direct On-Line Motor starter



Typ	DUO-WITCH 090	DUO-WITCH 120	DUO-WITCH 180	DUO-WITCH 250	DUO-SWITCH 370	DUO-SWITCH 550	DUO-SWITCH 750
Order number							
Motor power	2 x 0,09 kW	2 x 0,12 kW	2 x 0,18 kW	2 x 0,25 kW	2 x 0,37 kW	2 x 0,55 kW	2 x 0,75 kW
Rated current	2 x 0,3 A	2 x 0,4 A	2 x 0,6 A	2 x 0,7 A	2 x 1,0 A	2 x 1,5 A	2 x 1,9 A
Rotation direction	Right direction						
Output voltage	3 x 400V						
Output frequency	50 Hz/ 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Motor temperature monitoring	PTC / PTO						
Signal bus	ASI or 24Vdc binary						
Sensors	1 x sensor M12 plug each Motor						
Connection AS-interface	1 x M12 plug						
Break management	Direct 230Vac (Neutral must be integrated into the Energy Distribution System)						
Status signals	LED and Feldbus						

subject to qualifications

MONO-SOFT-SWITCH - Soft-Motorstarter



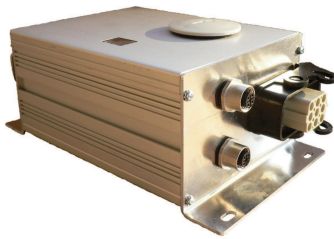
MONO-SOFT-SWITCH

This electronic motor soft starter MONO-SOFT-Switch switches one three-phase asynchronous motor smooth ON and OFF.

The run-up time and run-down time ramp is adjustable by potentiometer which are accessible from the outside. The MONO-SOFT-Switch is available from 0.09kW to 3.0 kW.

The connected motor is protected by the motor temperature monitoring. The motor temperature signal will transmit to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The run-up time, the run-down time and the BOOST are adjustable by interlan potentiometers which are accessible from the outside.



The integrated motor connector meets the DESINA requirements and allows a fast, reliable and quick connection for each motor. Also pre-tooled cables can be connected. Due to the 8-pole connector, a break function is also available in the same connector.

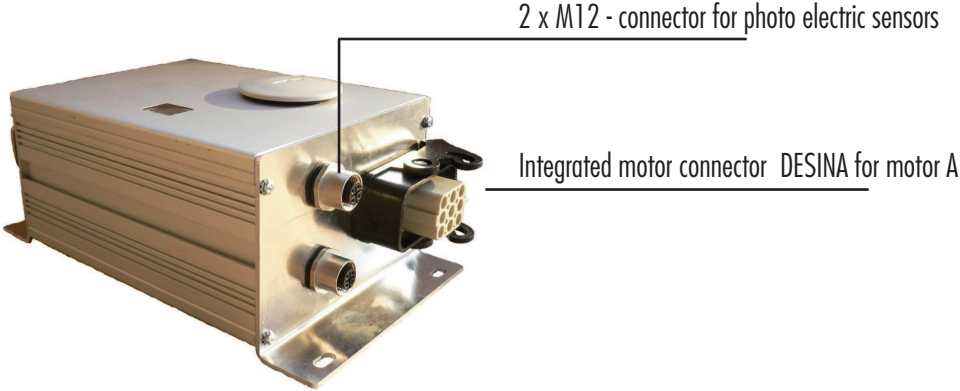
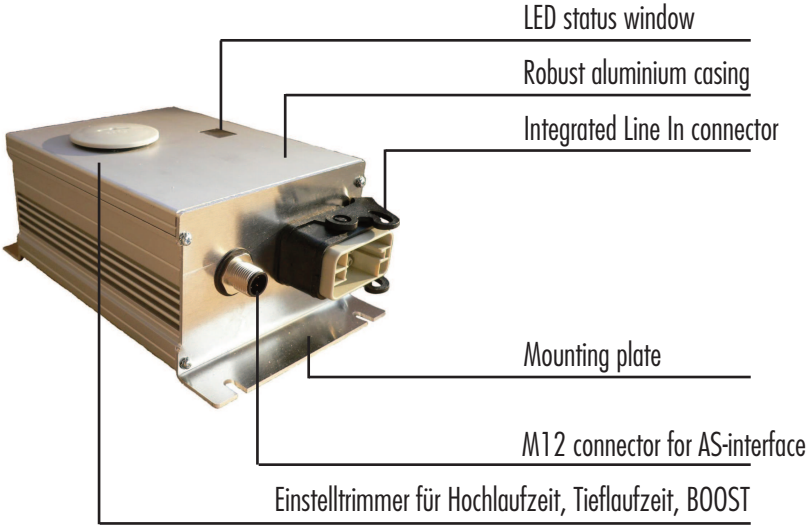
The power supply can be realised by various energy distribution systems. In this case, MSF provides metric cable glands or suitable connectors for special energy distribution systems.

The integrated M12 connector allows to connect two photo electric sensors and the AS-interface version 2.1 or for 24V binary signals.

Fieldbus-Systems

- 24V binary (PLC)
- AS-Interface
- Further fieldbus-systems on request

MONO-SOFT-SWITCH - Soft-Motorstarter



MONO-SOFT-SWITCH - Soft-Motorstarter

Type	MONO-SOFT-SWITCH 090	MONO-SOFT-SWITCH 120	MONO-SOFT-SWITCH 180	MONO-SOFT-SWITCH 250	MONO-SOFT-SWITCH 370	MONO-SOFT-SWITCH 550	MONO-SOFT-SWITCH 750
Order number							
Motor power	0,09 kW	0,12 kW	0,18 kW	0,25 kW	0,37 kW	0,55 kW	0,75 kW
Rated current	0,3 A	0,4 A	0,6 A	0,7 A	1,0 A	1,5 A	1,9 A
Rotation direction	Right direction						
Output voltage	3 x 400V						
Output frequency	50 Hz/ 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Run-up time ramp, Run-down time ramp	0,1 – 3 sec.						
Motor temperature monitoring	PTC / PTO						
Motor current monitoring	Internal						
Adjustment motor current	0 - 5 A						
Signal bus	ASI or 24Vdc binary						
Connection sensors	2 x sensor M12 plug each Motor						
Connection AS-Interface	1 x M12 plug						
Breaking management	Potential free relay						
Status signals	LED and Feldbus						

Type	MONO-SOFT-SWITCH 1100	MONO-SOFT-SWITCH 1500	MONO-SOFT-SWITCH 2200
Order number			
Motor power	1,1 kW	1,5 kW	2,2 kW
Rated current	2,7 A	3,5 A	4,7 A
Rotation direction	Right direction		
Output voltage	3 x 400V		
Output frequency	50 Hz/ 60 Hz		
Rated voltage	400 V		
Protection class	IP 54		
Ambient temperature	0 – 40 °C		
Run-up time ramp, Run-down time ramp	0,1 – 3 sec.		
Motor temperature monitoring	PTC / PTO		
Motor current monitoring	Internal		
Adjustment motor current	0 - 5 A		
Signal bus	ASI or 24Vdc binary		
Connection sensors	2 x sensor M12 plug each Motor		
Connection AS-Interface	1 x M12 plug		
Breaking management	Potential free relay		
Status signals	LED and Feldbus		

DUO-SOFT-SWITCH - Soft-Motorstarter



DUO-SOFT-SWITCH

This electronic motor soft starter DUO-SOFT-Switch switches two three-phase asynchronous motor smooth ON and OFF.

The run-up time and run-down time ramp is adjustable by potentiometer which are accessible from the outside for each motor. The DUO-SOFT-Switch is available from 2 x 0.09KW to 2 x 0.75 kW.

The connected motors are protected by the motor temperature monitoring. The motor temperature signal will transmitt to the superordinated controller by AS-interface for each motor. An uncontrolled disconnection of the motor is avoided.

The run-up time, the run-down time and the BOOST are adjustable by internal potentiometers which are accessible from the outside. The adjustments are possible for each motor.



The integrated motor connector meets the DESINA requirements and allows a fast, reliable and quick connection for each motor. Also pre-toilored cables can be connected. Due to the 8-pole connector, a break function is also available in the same connector.

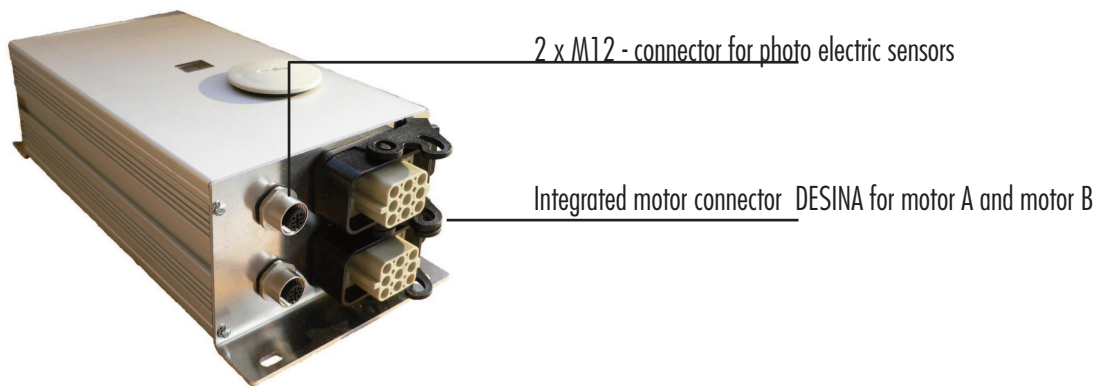
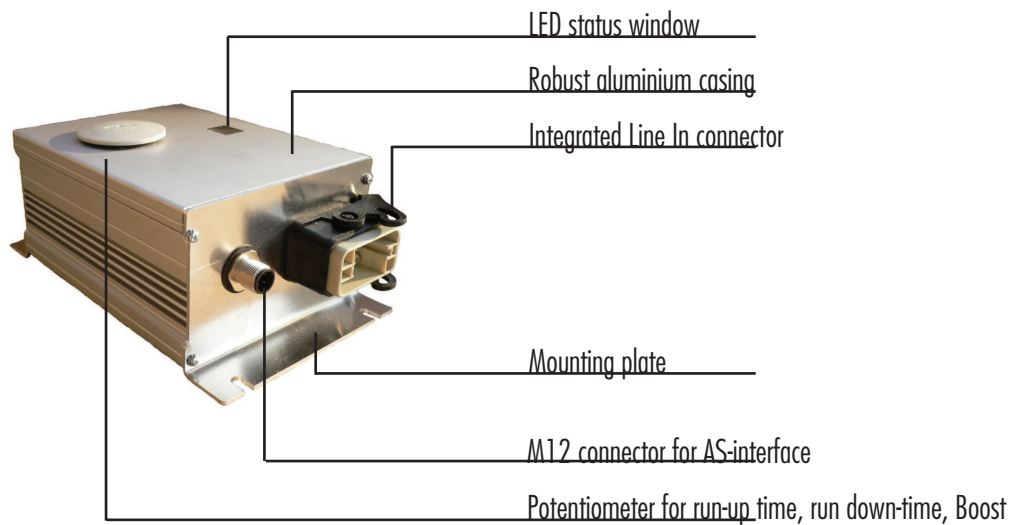
The power supply can be realised by various energy distribution systems. In this case, MSF provides metric cable glands or suitable connectors for special energy distribution systems.

The integrated M12 connector allows to connect one photo electric sensor for each motor and the AS-interface version 2.1 or for 24V binary signals.

Fieldbus-Systems

- 24V binary (PLC)
- AS-Interface
- Further fieldbus-systems on request

DUO-SOFT-SWITCH - Soft-Motorstarter



Type	DUO-SOFT-SWITCH 090	DUO-SOFT-SWITCH 120	DUO-SOFT-SWITCH 180	DUO-SOFT-SWITCH 250	DUO-SOFT-SWITCH 370	DUO-SOFT-SWITCH 550	DUO-SOFT-SWITCH 750
Order number							
Motor power	2 x 0,09 kW	2 x 0,12 kW	2 x 0,18 kW	2 x 0,25 kW	2 x 0,37 kW	2 x 0,55 kW	2 x 0,75 kW
Rated current	2 x 0,3 A	2 x 0,4 A	2 x 0,6 A	2 x 0,7 A	2 x 1,0 A	2 x 1,5 A	2 x 1,9 A
Rotation direction	Right direction						
Output voltage	3 x 400V						
Output frequency	50 Hz / 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Run-up time ramp, Run-down time ramp	0,1 – 3 sec. each motor						
Motor temperature monitoring	PTC / PTO each motor						
Motor current monitoring	Internal each motor						
Adjustment motor current	0 - 5 A						
Signal bus	ASI or 24Vdc binary						
Connection sensors	2 x sensor M12 plug each Motor						
Connection AS-Interface	1 x M12 plug						
Breaking management	Potential free relay						
Status signals	LED and Feldbusdbus						

MONO-SOFT-SWITCH Reverse



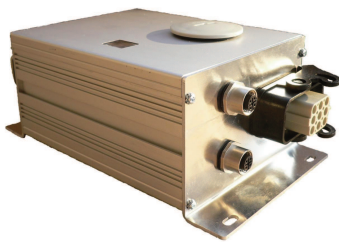
MONO-SOFT-SWITCH-Reversierbar

This electronic motor soft starter MONO-SOFT-Switch Reversible switches one three-phase asynchronous motor smooth ON and OFF for right direction and left direction.

The run-up time and run-down time ramp is adjustable by potentiometer which are accessible from the outside for both direction. The MONO-SOFT-Switch Reversible is available from 0.09KW to 3.0 kW.

The connected motor is protected by the motor temperature monitoring. The motor temperature signal will transmit to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The direction of rotation is reversible by the integrated AS-interface or by 24V binary signals.



The run-up time, the run-down time and the BOOST are adjustable by interlan potentiometers for both directions which are accessible from the outside.

The integrated motor connector meets the DESINA requirements and allows a fast, reliable and quick connection for each motor. Also pre-tooled cables can be connected. Due to the 8-pole connector, a break function is also available in the same connector.

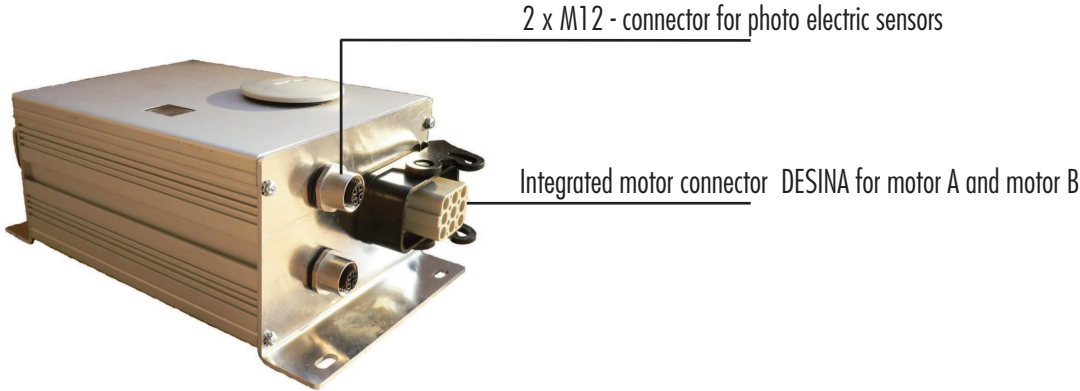
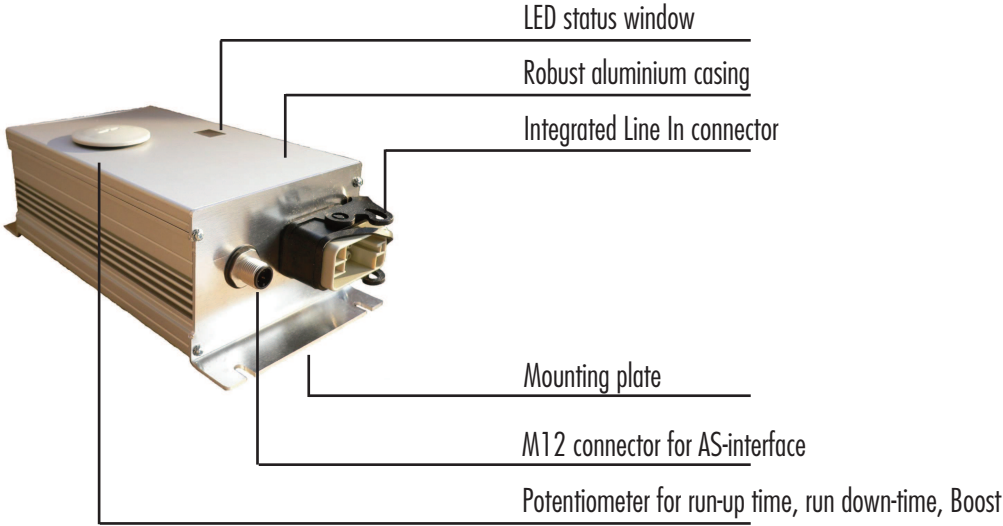
The power supply can be realised by various energy distribution systems. In this case, MSF provides metric cable glands or suitable connectors for special energy distribution systems.

The integrated M12 connector allows to connect two photo electric sensors and the AS-interface version 2.1 or for 24V binary signals.

Fieldbus-Systems

- 24V binary (PLC)
- AS-Interface
- Further fieldbus-systems on request

MONO-SOFT-SWITCH Reverse



MONO-SOFT-SWITCH Reverse

Type	MONO-SOFT-SWITCH Rev. 090	MONO-SOFT-SWITCH Rev. 120	MONO-SOFT-SWITCH Rev. 180	MONO-SOFT-SWITCH Rev. 250	MONO-SOFT-SWITCH Rev. 370	MONO-SOFT-SWITCH Rev. 550	MONO-SOFT-SWITCH Rev. 750
Order number							
Motor power	0,09 kW	0,12 kW	0,18 kW	0,25 kW	0,37 kW	0,55 kW	0,75 kW
Rated current	0,3 A	0,4 A	0,6 A	0,7 A	1,0 A	1,5 A	1,9 A
Rotation direction	Right / Left						
Output voltage	3 x 400V						
Output frequency	50 Hz/ 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Run-up time ramp, Run-down time ramp	0,1 – 3 sec.						
Motor temperature monitoring	PTC / PTO						
Motor current monitoring	Internal						
Adjustment motor current	0 - 5 A						
Signal bus	ASI or 24Vdc binary						
Connection sensors	2 x sensor M12 plug each Motor						
Connection AS-Interface	1 x M12 plug						
Breaking management	Potential free relay						
Status signals	LED and Feldbusdbus						

Type	MONO-SOFT-SWITCH Rev. 1100	MONO-SOFT-SWITCH Rev. 1500	MONO-SOFT-SWITCH Rev. 2200
Order number			
Motor power	1,1 kW	1,5 kW	2,2 kW
Rated current	2,7 A	3,5 A	4,7 A
Rotation direction	Right / Left		
Output voltage	3 x 400V		
Output frequency	50 Hz/ 60 Hz		
Rated voltage	400 V		
Protection class	IP 54		
Ambient temperature	0 – 40 °C		
Run-up time ramp, Run-down time ramp	0,1 – 3 sec.		
Motor temperature monitoring	PTC / PTO		
Motor current monitoring	Internal		
Adjustment motor current	0 - 5 A		
Signal bus	ASI or 24Vdc binary		
Connection sensors	2 x sensor M12 plug each Motor		
Connection AS-Interface	1 x M12 plug		
Breaking management	Potential free relay		
Status signals	LED and Feldbusdbus		

MONO-SWITCH Profi DP



MONO-SWITCH - PROFIBUS DP-

This electronic motor starter MONO-Switch DP switches only one three-phase asynchronous motor ON and OFF directly. The MONO-Switch is available from 0.09KW to 0.75KW.

The connected motor is protected by the motor temperature monitoring. The motor temperature signal will be transmitted to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The integrated M12 connector allows a fast and reliable connection of four photo electric sensors, one manual operating terminal, as well as the Profibus DP.

The connection by metric cable glands for the motor connection and Line In connection allows the usage of various energy distribution systems. If the application requires special motor and Line In connectors, MSF provides the suitable connector especially to the application.

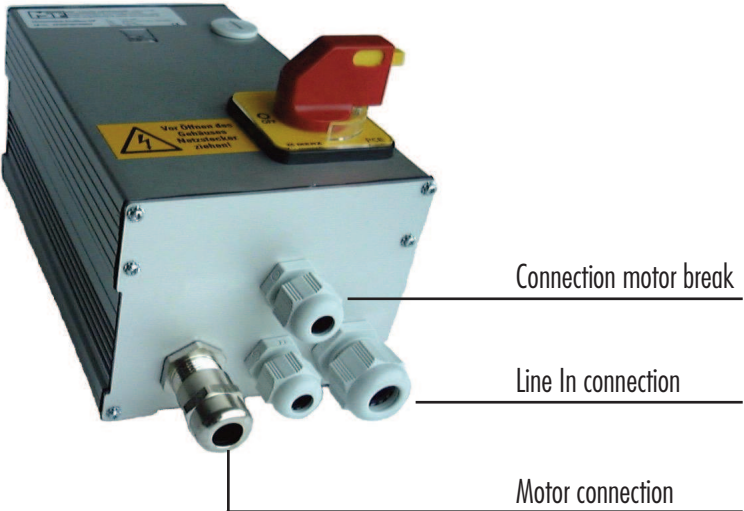
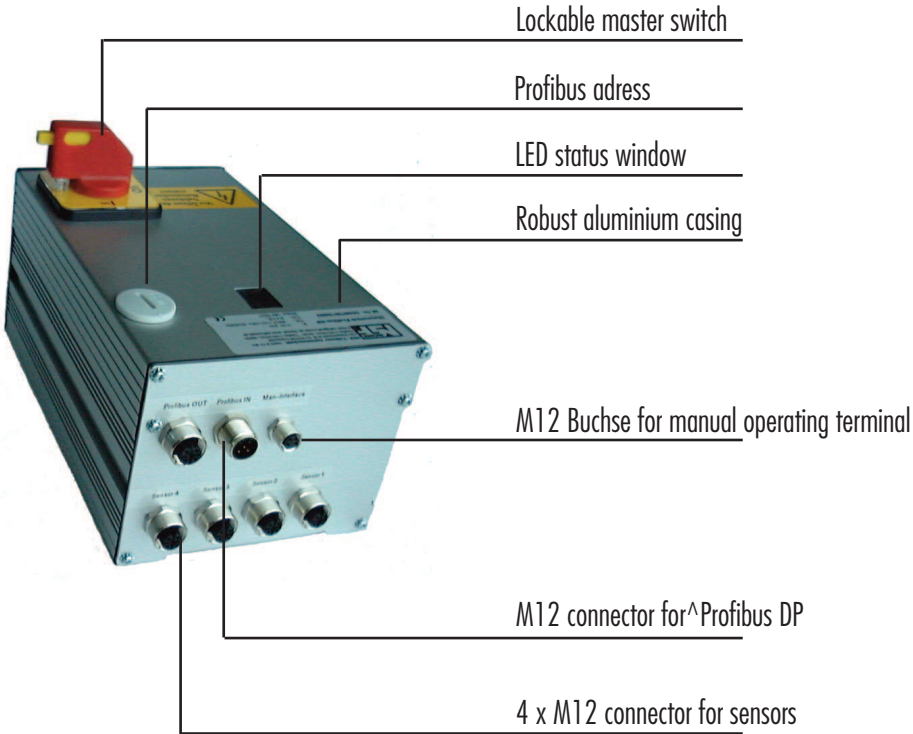


Further the motor starter contains a relay output for a breaking motor. As a separate option the motor starter provides 185Vdc to switch the motor break directly.

Additional features for intralogistic conveying systems

- Detection of all sensors by bus failure
- Detection of all sensors by switch OFF the motor starter
- Rapid stop of the motor by local failure of signalbus
- Status signal of motor temperature by Profibus
- Connection of manual operating terminal

MONO-SWITCH Profi DP



MONO-SWITCH Profi DP

Type	MONO-SWITCH Profi 090	MONO-SWITCH Profi 120	MONO-SWITCH Profi 180	MONO-SWITCH Profi 250	MONO-SWITCH Profi 370	MONO-SWITCH Profi 550	MONO-SWITCH Profi 750
Order number							
Motor power	0,09 kW	0,12 kW	0,18 kW	0,25 kW	0,37 kW	0,55 kW	0,75 kW
Rated current	0,3 A	0,4 A	0,6 A	0,7 A	1,0 A	1,5 A	1,9 A
Rotation direction	Rechts						
Output voltage	3 x 400V						
Output frequency	50 Hz/ 60 Hz						
Rated voltage	400 V						
Protection class	IP 54						
Ambient temperature	0 – 40 °C						
Motor temperature monitoring	PTC / PTO						
Signal bus	Profibus DP						
Connection sensors	4 x sensors M12 plug						
Connection manual operating terminal	1 x M12 plug						
Connection Profibus	2 x M12 plug (Daisy Chain)						
Breaking management	Potential free relay						
Status signals	LED and Feldbusldbus DP						

subject to qualifications

Frequency converter VECTOR - PROFI DP-



Frequency converter VECTOR - PROFI DP-

The Frequency converter VECTOR 54 Profibus DP was developed for special functions for conveying systems. The converter controls 3-phase asynchronous motors with a maximum power of 1.5 kW.

The connected motor is protected by the motor temperature monitoring. The motor temperature signal will transmit to the superordinated controller by AS-interface. An uncontrolled disconnection of the motor is avoided.

The integrated M12 connector allows a fast and reliable connection of four photo electric sensors, one manual operating terminal, as well as the Profi Bus DP.

The connection by metric cable glands for the motor connection and Line In connection allows the usage of various energy distribution systems. If the application requires special motor and Line In connectors, MSF provides the suitable connector especially to the application.

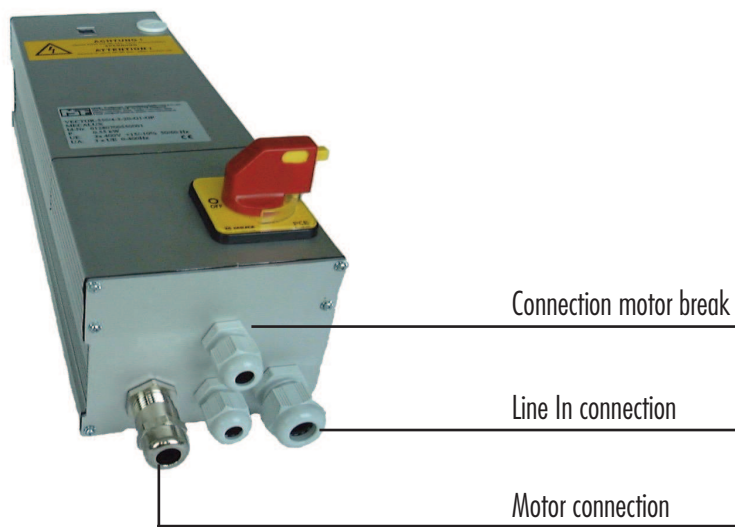
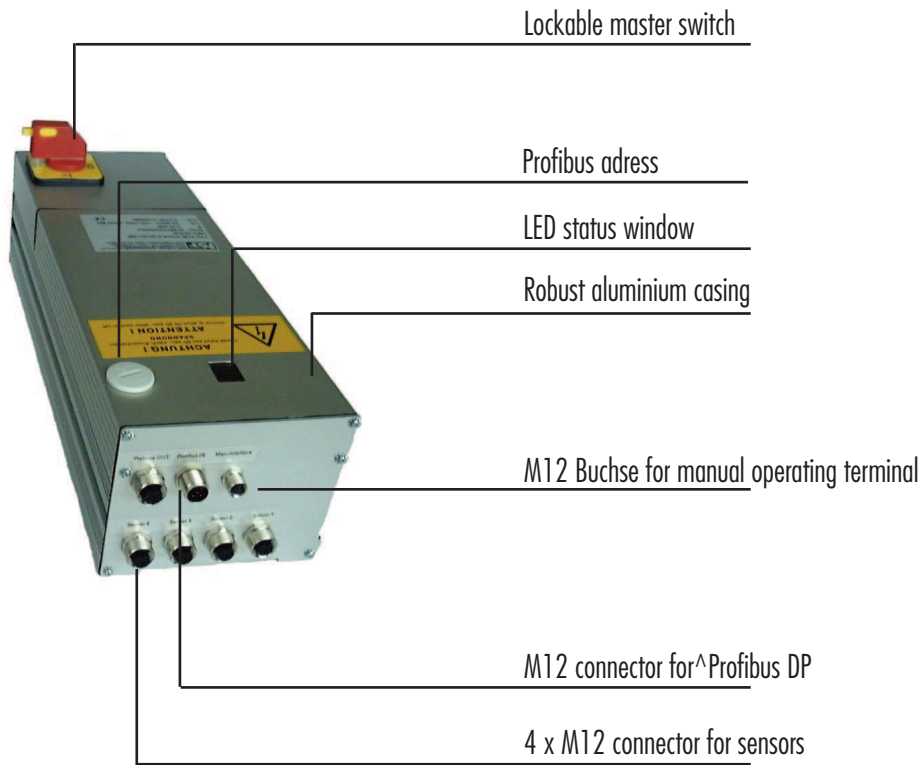
Further the motor starter contains a relay output for a breaking motor. As a separate option the motor starter provides 185Vdc to switch the motor break directly.

The integrated lockable master switch ensures a safety maintenance work.

Additional features for intralogistic conveying systems

- Detection of all sensors by bus failure
- Detection of all sensors by switch OFF the motor starter
- Rapid stop of the motor by local failure of signalbus
- Status signal of motor temperature by Profibus
- Connection of manual operating terminal

Frequency converter VECTOR - PROFI DP-



Frequency converter VECTOR - PROFI DP-

Type	Vector 54 Profi DP 750	Vector 54 Profi DP 1100	Vector 54 Profi DP 1500
Order number			
Output power	1,6 kVA	2,4 kVA	2,8 kVA
Motor power	0,75 kW	1,1 kW	1,5 kW
Rated current	2,2 A	3,5 A	4A
Output voltage	3 x 400 V		
Output frequency	0 – 400 Hz		
Line In and motor filter	Internal		
Rated voltage	400 V ± 10 %		
Protection class	IP 54		
Ambient temperature	0 – 40 °C		
Motor temperature monitoring	PTC / PTO		
Signal bus	Profibus DP		
Connection sensors	4 x sensors M12 plug		
Connection manual operating terminal	1 x M12 plug		
Connection Profibus	2 x M12 plug (Daisy Chain)		
Breaking management	Potential free relays		
Status signals	LED and Feldbuslbus DP		

subject to qualifications

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®

No starry wiring though energy distribution system Field Power® with snap on motor starter

The electronic motor starter for the energy distribution system Field Power® is a snap-on motor starter for the power distribution box (power box). This system is an alternative to central installed motor starter. The attributes of quick installation, flexible installation and easy installation features big advantages during reinstallations, extensions of a machine or for re-fittings.

All motor starter are connectable via a round cable or via a ribbon cable. Into the motor starter integrated M12 male or female connectors are available for single bus systems (field-bus-systems) like AS-Interface, Profibus or for a 24V PLC-signal. Two more M12 connectors are available for two photo electric sensors.

Following versions are available:

MONO-SWITCH

ON/ OFF motor starter for only one asynchronous motor

DUO-SWITCH

ON/ OFF motor starter for two separate asynchronous motor

MONO-SOFT-SWITCH

ON/ OFF soft motor starter for only one asynchronous motor

VECTOR Field Power®

Frequency converter for Energy distribution system Field Power®



Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Overview of all motor starter and Frequency converter

MONO-SWITCH

Direct motor starter to switch one asynchronous motor ON and OFF

MONO-SOFT-SWITCH

Soft motor starter to switch one asynchronous motor ON and OFF

DUO-SWITCH

Direct motor starter to switch two asynchronous motor ON and OFF separately

DUO-SOFT-SWITCH

Soft motor starter to switch two asynchronous motor ON and OFF separately

MONO-SOFT-SWITCH Reverse

Soft motor starter to switch one asynchronous motor ON and OFF for right direction and left direction

Frequency converter VECTOR Field Power

Frequency converter with for AC drives with energy distribution system Field Power

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®

Frequency converter VECTOR Field Power®

The frequency converter VECTOR Field Power® is used everywhere motor speeds will vary for specific applications.



Characteristics of the VECTOR Field Power®

- Power range: from 0.09 kW to 2,2 kW
- Voltage range: 3 x 400Vac + / - 10%
- Clock speed: up to 8 KHz
- Integrated power distribution
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: 4-Q - Operating
- Standard: LED status display
- Standard integrated brake management for 230Vac or 400Vac motor brakes
- Standard: Programmable brake for lifting frames
- Standard: Integrated EMC filter class A
- Standard: Integrated motor temperature control for each motor
- Standard: Standard: 8 preset speeds available
- Standard: Connection for manual control unit
- Standard: Connection of 2 sensors per motor
- Standard: Q8 Motor connector to DESINA for each motor
- Optional: Connecting of a brake resistor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Motor starter - MONO-SWITCH Field Power®

The Motor starter MONO-SWITCH Field Power® is used everywhere where the drive without a speed change without integrated soft start must be application-specific switched on and off.

The MONO-SWITCH Field Power® is designed for the direct on– and off turning of one separate three-phase asynchronous motor.

Characteristics of the MONO-SWITCH ® Field Power

- Power range: from 0.09 kW to 2,2 kW
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated field bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard integrated brake management for 230Vac or 400Vac motor brakes
- Standard: integrated motor temperature control for each motor
- Standard: Connection for manual control unit
- Standard: Connection of 2 sensor per motor
- Standard: Q8 Motor connector to DESINA for each motor
- Security: By 3-phase independent switching for each motor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Motor soft starter - MONO-SOFT-SWITCH Field Power®

The Motor soft starter MONO-SOFT-SWITCH Field Power® is used everywhere where the drive without a speed change with integrated soft start must be application-specific switched on and off.

The MONO-SOFT-SWITCH Field Power® is designed for the soft on— and off turning of a three-phase asynchronous motor.

Characteristics of the MONO -SOFT-SWITCH Field Power®

- Power range: from 0.09 kW to 2,2 kW
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard: Adjustable high and low running times
- Standard: Adjustable motor current
- Standard integrated brake management for 230Vac or 400Vac motor brakes for each motor
- Standard: Integrated motor temperature control
- Standard: Connection for manual control unit
- Standard: connection of 2 sensors
- Standard: Q8 Motor connector to DESINA
- Standard: Reversing (reversing starter)
- Security: By 3-phase independent soft switching for each motor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Motor starter - DUO-SWITCH Field Power®

The motor starter DUO-SWITCH Field Power® is used everywhere where two drives independently of one another without application-specific change in speed and without a soft start must be switched on and off.

The DUO-SWITCH Field Power® is designed for the direct on— and off turning of two separate 3-phase asynchronous motors.

Characteristics of the DUO-SWITCH ® Field Power

- Power range: from 0.09 kW to 0.75 kW per engine
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard integrated brake management for 230Vac or 400Vac motor brakes for each motor
- Standard: integrated motor temperature control for each motor
- Standard: Connection for manual control unit
- Standard: Connection of 1 sensor per motor
- Standard: Q8 Motor connector to DESINA for each motor
- Security: By 3-phase independent switching for each motor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Motor Soft starter - DUO-SOFT-SWITCH Field Power®

The Motor Soft Starter DUO-SOFT-SWITCH Field Power® is used everywhere where two drives without a speed change with integrated soft-start must be application-specific switched on and off.

The DUO-SOFT-SWITCH Field Power® is designed for the soft on— and off turning of two independent 3-phase asynchronous motors.

Characteristics of the DUO-SOFT-SWITCH ® Field Power

- Power range: from 0.09 kW to 0.75 kW per motor
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard: Adjustable high and low running times per motor
- Standard: Adjustable motor current of each motor
- Standard integrated brake management for 230Vac or 400Vac motor brakes for each motor
- Standard: integrated motor temperature control for each motor
- Standard: Connection for manual control unit
- Standard: connection of 1 sensor per motor
- Standard: Q8 Motor connector to DESINA for each motor
- Security: By 3-phase independent switching for each motor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®



Motor soft starter – MONO-SOFT-SWITCH Reversible Field Power®

The motor soft starter MONO-SOFT-SWITCH-Reversible Field Power® is used everywhere where the drive without a speed change with integrated soft start must be application-specific switched on and off and a rotation reversal is necessary.

The MONO-SOFT-SWITCH Reversible Field Power® is designed for the soft on– and off turning of a 3-phase asynchronous motor and for the rotation reversal.

Characteristics of the MONO-SOFT-SWITCH Reversible Field Power®

- Power range: from 0.09 kW to 2,2 kW
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard: Adjustable high and low running times
- Standard: Adjustable motor current
- Standard integrated brake management for 230Vac or 400Vac motor brakes for each motor
- Standard: Integrated motor temperature control
- Standard: Connection for manual control unit
- Standard: connection of 2 sensors
- Standard: Q8 Motor connector to DESINA
- Standard: Reversing (reversing starter)
- Security: By 3-phase independent switching for each motor

Field bus systems

- AS-interface Spec. 3.0
- Profibus DP
- 24V binary
- Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®

Motor Starter Field Power® mounted on 3phase asynchronous motor

Motor starter Field Power® MOT

The Motor starter Field Power® MOT is always used where the motormanagement application-specific must be built or can be built onto the motor.



Characteristics of the motor starter Field Power® - MOT

- Power range: from 0.09 kW to 2,2 kW
- Voltage range: 3 x 400Vac + / - 10%
- Integrated power distribution and line protection
- Integrated Field Bus interface
 - AS-interface spec. 3.0
 - Profibus DP
 - 24V binary
 - Cascade for storage conveying systems
- Protection: IP65
- Standard: LED status display
- Standard integrated brake management for 230Vac or 400Vac motor brakes for each motor
- Standard: Integrated motor temperature control
- Standard: Connection for manual control unit
- Standard: connection of 2 sensors
- Standard: Q8 Motor connector to DESINA
- Optional: Connection of brake resistor

Motor specifications

- AC induction gear motor 0,09 kW - 2,2 kW
- Transmission type: worm gears, spur gears, bevel gears, worm-spur gear, etc.
- Design: B3, B14, B34, B35
- Motor protection: 3 x built-in PTC thermistor

Product Variants of the Motor Starter Field Power® - MOT

- MONO-SWITCH Field Power®
- DUO-SWITCH Field Power®
- MONO-SOFT-SWITCH Field Power®
- DUO-SOFT-SWITCH Field Power®
- MONO-SOFT-SWITCH Reversible Field Power®
- Frequency converter VECTOR Field Power®

Field bus systems

- AS-interface Spec. 3.0 | Profibus DP
- 24V binary | Cascade for storage conveying systems

Decentralized drives for conveying systems with integrated Energy Distribution System Field Power®

Typ	MONO-SWITCH Field Power®	MONO-SOFT-SWITCH Field Power®	DUO-SWITCH Field Power®	DUO-SOFT-SWITCH Field Power®	MONO-SOFT-SWITCH - Reverse Field Power®	Frequenzrichter VECTOR Field Power®
Power supply	400V AC					
Net Frequency	50 / 60 Hz					
Motor power	2,2 kW	0,75 kW for each Motor		2,2 kW	2,2 kW	
Motor current	5 A					
Line In fuses	Internal					
Ambient temperature	0 - 40°C					
Inputs	2 x Sensor 1 x Signal bus 1 x Manual operating terminal	1 x Sensor je Motor 1 x Signal bus 1 x Manual operating terminal		2 x Sensor 1 x Signal bus 1 x Manual operating terminal	2 x Sensor 1 x Signal bus 1 x Manual operating terminal	
Signal bus	24Vbinary / Cascade / AS-Interface / Profibus DP					
Protection class	IP65					
Sensor voltage	18V - 30V					
Sensor current	20mA					
Dimension	H: 157mm B: 135mm T: 105mm					

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