

Vestamatic



## Vestamatic Digital SMI Motors, controllers and pluggable solutions



2023



SMI is the standard in the automation of shades and shutters. It standardises the communication between drives and controls, allowing for simplified and the sustainable use of wiring.

Vestamatic is – among others – the leading supplier of drives and control systems using SMI technology. With 100.000+ installed SMI products in projects around the world, Vestamatic is the experienced consultant for planning, commissioning and maintaining of SMI installations.



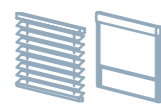
# SMI

## (Standard Motor Interface)

Blinds and shading systems have become indispensable in energy and work-efficient buildings. Properly automated, they support the cooling or keeping buildings cool in summer by minimizing the amount of sunlight entering the building. In winter, the heating system is supported by shading at the right time to let the sun's rays into the building.

SMI (Standard Motor Interface), is a consistent interface for electric drives, enabling the connection of drives with integrated electronic circuits for applications to roller shutters and sun protection devices. This allows telegrams to be exchanged over the consistent interface, from the controller to the drive and vice versa. SMI means that drives and controllers from different manufacturers are compatible with one another, making it possible to combine products from different makers.

The SMI-interface delivers high-quality solutions, making it possible to implement functions that could not be achieved using conventional drives. SMI installations can help to make today's buildings energy-efficient in a resource saving manner.



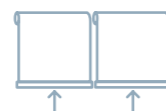
### All types of shading

SMI interface for interior and exterior motorized blinds.



### Digitally addressable

Individual drive feedback.



### Precise Alignment

commands for exact movement and intermediate positions.



### Plug and play

Simplified installation with pre-made components.



### Status Feedback

shading position, motor condition, upper and lower limits, error messages.



### Individual control

Motors controlled independently of wiring configuration.



### Time Saving

up to 70% time saved on site with pluggable wiring.



### Parallel connection

Up to 16 motors in parallel connection.

For further information about SMI technology visit: [standard-motor-interface.com](http://standard-motor-interface.com)



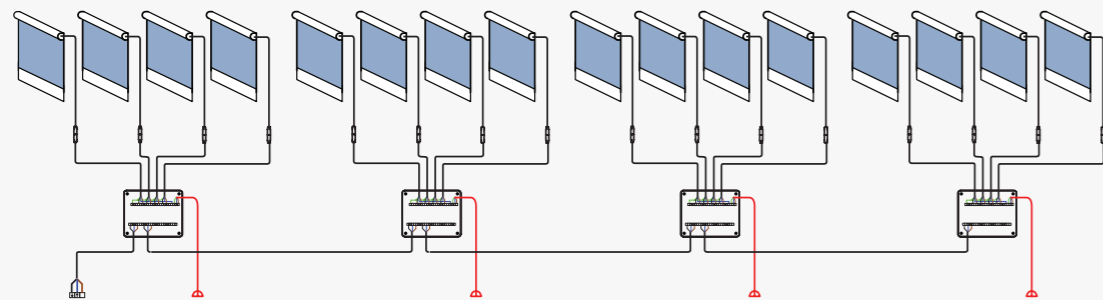
### Quay Quarter Tower Sydney

1,900 + automated Roller Blinds were installed using Vestamatic SMI digital drives, using simplified pluggable cabling connections, delivering direct IoT feedback on motor status, blind positioning and performance.

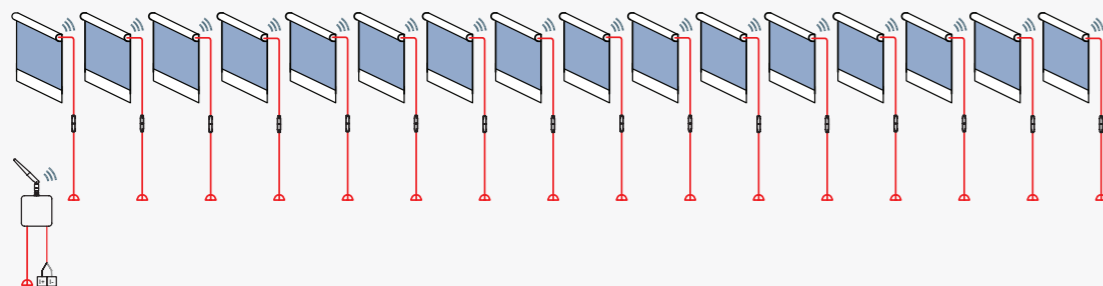
# Conventional Shading Automation

Conventional shading motors and connection to controllers can be wired in parallel and allow central, decentralised and individual operation, as shown in the example below of a setup using x16 drives. A connection to Smart Building and building control technology is possible. Radio motors offer a solution where each motor is constantly supplied with 230 V. Group and individual commands can then be sent from one or more transmitters. A connection to Smart Building and building control technology is possible to a limited extent.

## Conventional drives: x16 drives



## Radio Drives: x16 drives



### Manhattan Loft Gardens, London

1500+ automated roller blinds,  
150+ with a custom extra narrow  
size, all using Vestamatic SMI tubular  
drives 230V and Vestamatic SMI/ LON  
controls.



**ZIN Brussels**

2000+ automated venetian blinds  
230V and 400+ roller blinds all using  
Vestamatic SMI drives were installed  
and are integrated with Beckhoff SMI  
controls.

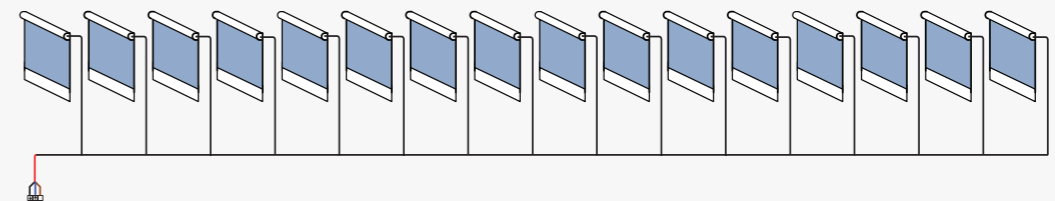
# SMI

## Shading Automation

Standard Motor Interface (SMI) is a universal 5-pin bus system that has been the standard for sun protection systems across all manufacturers since 2001. The driver of the standard is the interoperability between motor and controller. The products have been running under an updated SMI 3.0 standard since 2023. Up to 16 drives can be connected in parallel and remain individually addressable. They are automated as a line via a controller or integrated into a comprehensive smart building.

**SMI Drives:**

x16 drives



A connection to Smart Building and building control technology is possible without any problems - from simple to complex. The installation is often carried out by the sun protection contract installer and the electrical connection by an electrician.

Responsibility for the T-connections between the motors, the cable specification, "learning" the serial numbers of the motors for the controller and parameterizing the controller is challenging. Vestamatic fortunately has the experience to offer support and guidance with installation and commissioning of SMI projects, including the network partnership of vasatec contract shading. The established network is comprised of shading specialists providing the supply and installation of SMI shading projects, with experience of 1000+ successfully commissioned projects. Find out more about vasatec on page 74.

# SMI Products and Solutions from Vestamatic

The solution firm delivering design,  
products and services for new-build  
and retrofit



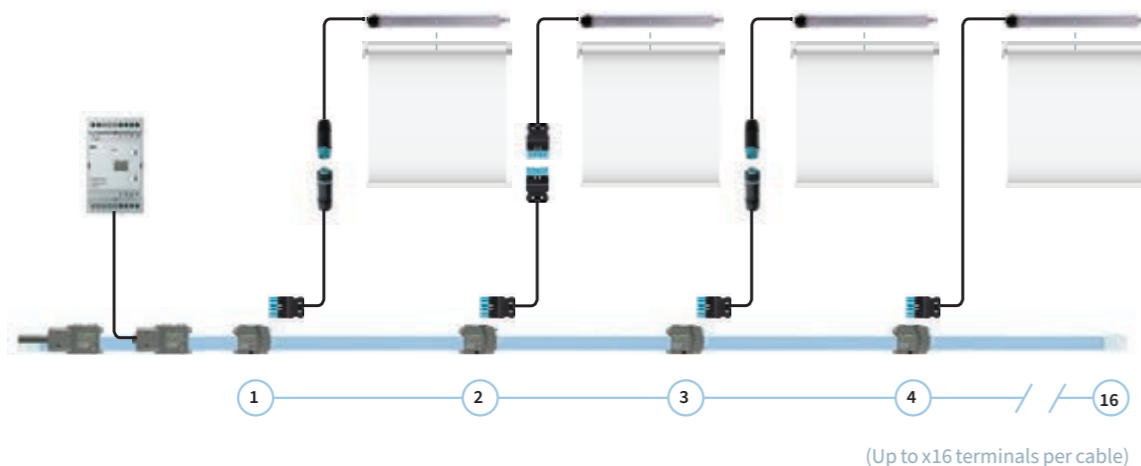
# Vestamatic SMI

## Products & Solutions

Experience from more than 100,000 installed SMI drives in projects worldwide have been compiled to create holistic solutions from established products. In this way, uniform planning parameters were created from the three elements; sun protection (motor), cabling and control.



We have created solutions for a high level of planning security and reduced risk for architects, planners, general contractors and builders. Especially in the prefab area - for wall modules, fixed room grid dimensions and entire buildings - there is a fundamental advantage here.



The above connection diagram shows an installation using the example of sixteen 230 V SMI 3.0 tubular drives, which are wired together via a BUSbar and are supplied and controlled centrally from one location. Simplified plug-and-play connection for quicker installation and reduced wiring.

With the experience of > 15 years in SMI, our products have become part of a solution ecosystem that can be tailored to the needs of a project. Vestamatic offers the widest range of SMI motors for exterior and interior venetian blinds, including motors for ZIP-screens, markisolette, roller blinds, pleated blinds, roman shades and special applications. Our control is connected to KNX, Modbus and BACNET. Our cable solutions with BUSbar technology are universal and can be fully prefabricated.

### SMI TUBULAR MOTORS

#### SHUTTERS AND INTERIOR SHADING



### SMI BLOCK MOTORS

#### EXTERIOR VENETIAN BLINDS



### SMI SIDE AND CENTRE MOTORS

#### INTERIOR SHADING



### CONTROL SYSTEMS

#### SMI AND DIGITAL MOTOR CONTROLLERS



### CABLES AND CONNECTORS

#### SMI CONNECTIONS



### PROG TOOLS

#### SMI PROGRAMMING AND TESTING TOOLS

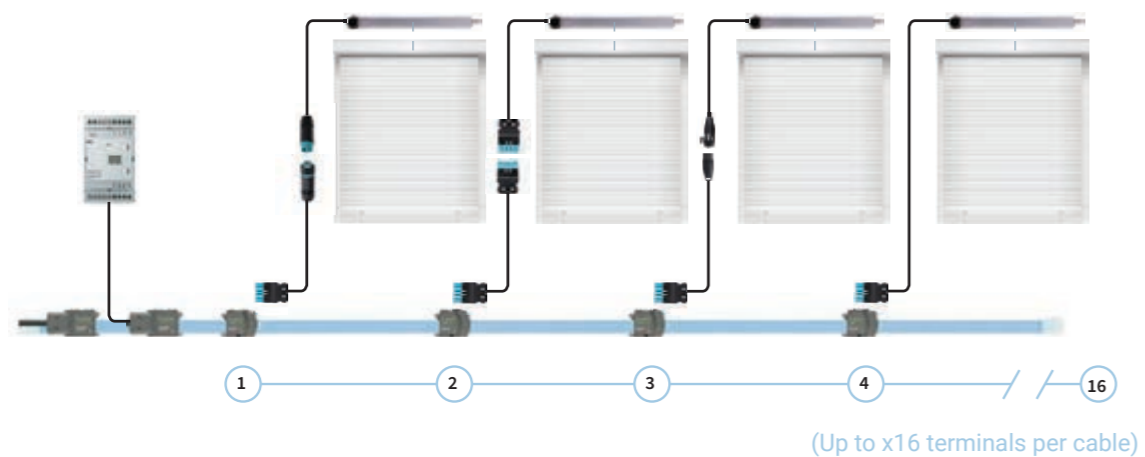


# Vestamatic SMI Motors

## Roller Shutters


- Vestaline 230VAC

### Connection Example



### Product Details

VL-35			
	Electronic tubular motor for shutters 230V 35series   10Nm   17rpm   Interface: SMI	01066431	VL-SMI-ME-230-35/10Nm
	Elektronischer Rohrantrieb für Rollläden 230VAC 35er Baureihe   10 Nm   17rpm   Schnittstelle: SMI		

VL-45			
	Electronic tubular motor for shutters 230V 45series   Interface: SMI	01066292	VL-SMI-ME-230-45/10Nm
	Elektronischer Rohrantrieb für Rollläden 230VAC 45er Baureihe   Schnittstelle: SMI	01066302	VL-SMI-ME-230-45/20Nm
		01066311	VL-SMI-ME-230-45/30Nm
		01066312	VL-SMI-ME-230-45/40Nm
		01066321	VL-SMI-ME-230-45/50Nm

- Connection product details and accessories can be found from page: **39**
- Detailed connection plans can be found from page: **50**



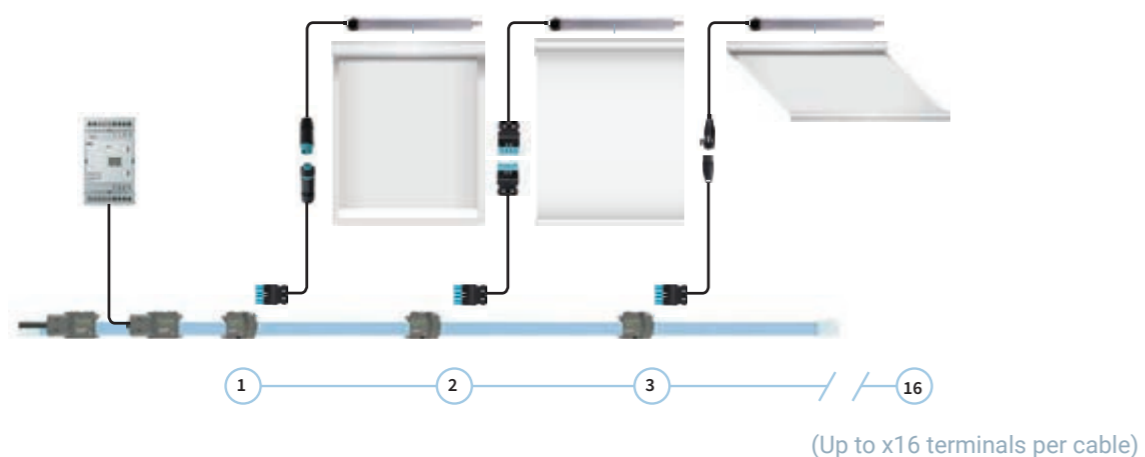


# Vestamatic SMI Motors

Screens / Roller Blinds / Awnings

- Vestaline 230VAC

## Connection Example



## Product Details

VL-35			
	<b>Electronic tubular motor for shades 230V</b> 35series   Interface: SMI  Elektronischer Rohrantrieb für Sonnenschutzanlagen 230VAC 35er Baureihe   Schnittstelle: SMI	01066330	VL-SMI-WISO-230-35/6Nm
		01066420	VL-SMI-WISO-230-35Q/6Nm
		01066430	VL-SMI-WISO-230-35/10Nm
VL-45			
	<b>Electronic tubular motor for shades 230V</b> 45series   Interface: SMI  Elektronischer Rohrantrieb für Sonnenschutzanlagen 230VAC 45er Baureihe   Schnittstelle: SMI	01066290	VL-SMI-WISO-230-45/10Nm
		01066300	VL-SMI-WISO-230-45/20Nm
		01066310	VL-SMI-WISO-230-45/30Nm
		01066313	VL-SMI-WISO-230-45/40Nm
		01066320	VL-SMI-WISO-230-45/50Nm

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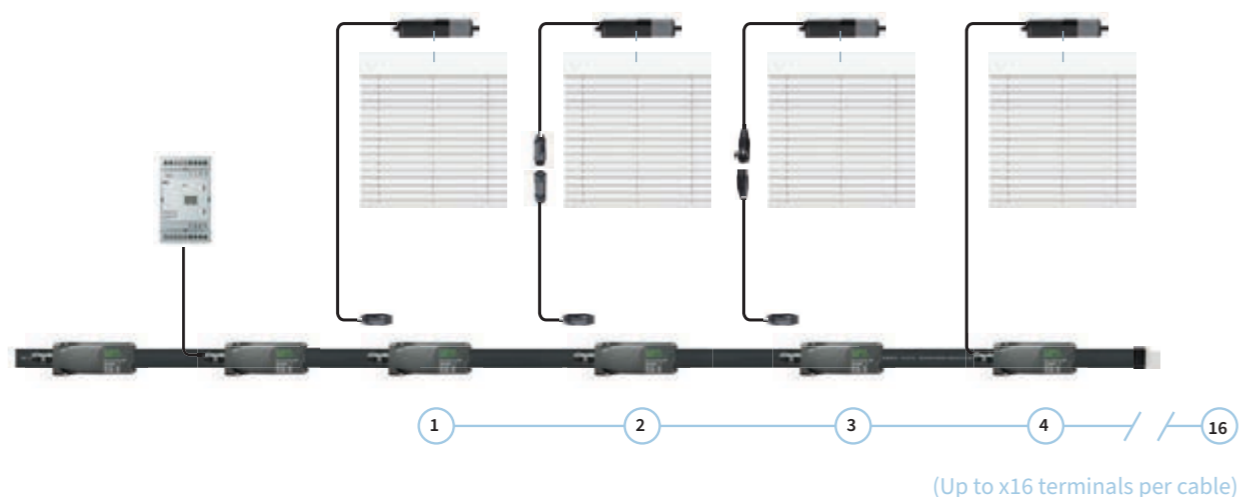


# Vestamatic SMI Motors

## External Venetian Blinds

- Vestaline 230VAC

### Connection Example



### Product Details

VL-35			
	Electronic block motor for venetian blinds 230VAC incl. STAS4   2x3 Nm   23rpm   Interface: SMI 3.0  Elektronischer Blockantrieb für Jalousieanlagen 230VAC inkl. STAS4   2x3 Nm   23rpm   Schnittstelle: SMI 3.0	01066453	VL-SMI-WISO-230-2x3Nm EVB 3.0
	Electronic block motor for venetian blinds 230VAC incl. STAS4   2x5Nm   22rpm   Interface: SMI 3.0  Elektronischer Blockantrieb für Jalousieanlagen 230VAC inkl. STAS4   2x5 Nm   22rpm   Schnittstelle: SMI 3.0	01066455	VL-SMI-WISO-230-2x5Nm EVB 3.0
	Electronic block motor extra quiet for venetian blinds with adaptive speed 230VAC incl. STAS4   2x5Nm   5-23rpm   Interface: SMI 3.0  Elektronischer Blockantrieb für Jalousieanlagen mit Langsamlauf 230VAC inkl. STAS4   2x5 Nm   5-23rpm   Schnittstelle: SMI 3.0	01066446	VL-SMI-WISO-230-2x3Nm EVB 3.0 Q

- Connection product details and accessories can be found from page: **39**
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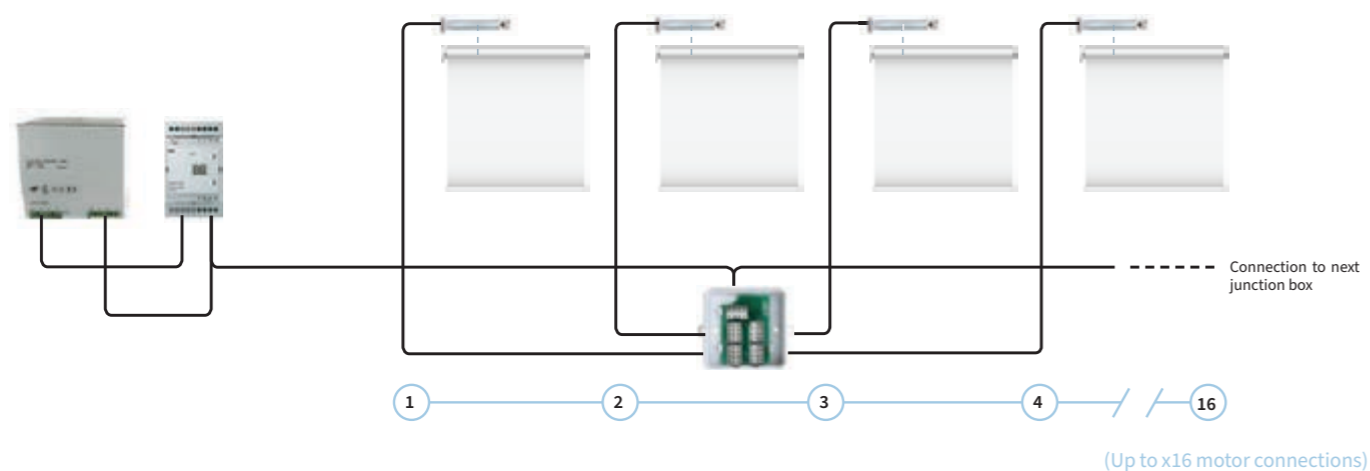


# Vestamatic SMI Motors


## Roller Blinds

- Lovoline 24VDC

### Connection Example



### Product Details

LL			
	LL-Tubular motor 24VDC w JST connector Application: Roller Blind   Interface: SMI	01010202	LL-SMI-24-24/0,9Nm RB
	LL-Rohrmotor 24VDC mit JST Steckverbindung Applikation: Rollo   Schnittstelle: SMI		
LL QUIET MOTOR			
	LL tubular motor 24VDC with JST connector Soundoptimized version Application: Roller blind   Interface: SMI	01010206	LL-SMI-24-24/0,9Nm RBQ
	LL-Rohrmotor 24VDC mit JST Steckverbindung Geräuschoptimierte Version Applikation: Rollo   Schnittstelle: SMI		

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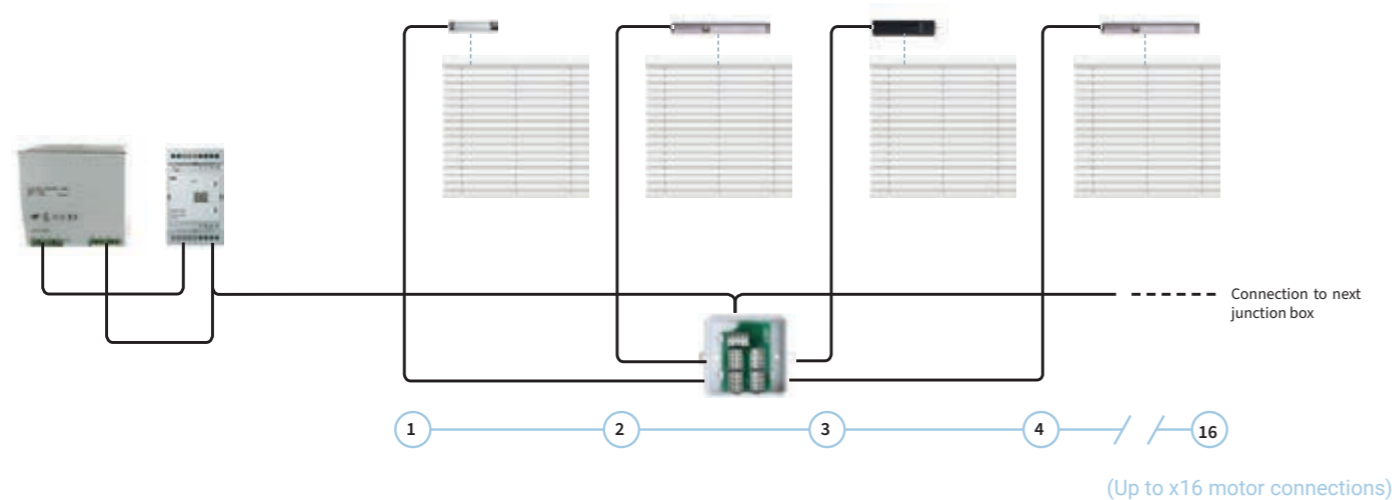


# Vestamatic SMI Motors



## Interior Venetian Blinds

- Lovoline 24VDC

### Connection Example



### Product Details

LL			
	LL-Side motor 24VDC w Pancon connector Interface: SMI LL-Seitenmotor 24VDC mit Pancon Steckverbindung Schnittstelle: SMI	01010050	LL-SMI-24/0,9Nm VB
	LL-Centre motor 24VDC w JST connector Interface: SMI LL-Mittelmotor 24VDC mit JST Steckverbindung Schnittstelle: SMI	01010404	LL-SMI-24C/1,2Nm VB short - Oldham Coupling fix
	LL-Side Motor 24VDC w Pancon 35 conector Interface: SMI LL-Seitenmotor 24V mit Pancon 35 Steckverbindung Schnittstelle: SMI	01092225	LL-SMI-24-35/1,0Nm VB- B35x40

- Connection product details and accessories can be found from page: **39**
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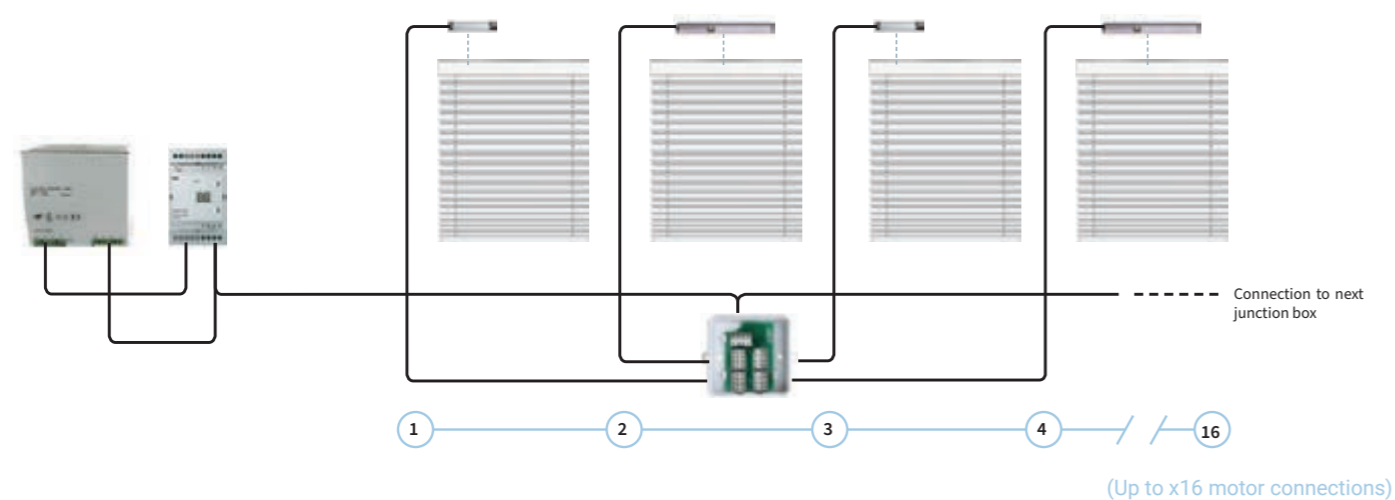


# Vestamatic SMI Motors



## Pleated Blinds

- Lovoline 24VDC

### Connection Example



### Product Details

LL		
	<b>LL-Side motor 24VDC w Pancon connector</b> Interface: SMI	<b>Pleated Blind   Plissee</b> 01010030    LL-SMI-24/0,9Nm VPB
	<b>LL-Seitenmotor 24VDC mit Pancon Steckverbindung</b> Schnittstelle: SMI	<b>Plafond Blind   Plafond Plissee</b> 01010040    LL-SMI-24/0,9Nm HPB
	<b>LL-Centre motor 24VDC w JST connector</b> Interface: SMI	<b>Pleated Blind   Plissee</b> 01010405    LL-SMI-24C/1,2Nm VPB short - Oldham Coupling fix
	<b>LL-Mittelmotor 24VDC mit JST Steckverbindung</b> Schnittstelle: SMI	<b>Plafond Blind   Plafond Plissee</b> 01010406    LL-SMI-24C/1,2Nm HPB short - Oldham Coupling fix

- Connection product details and accessories can be found from page: **39**
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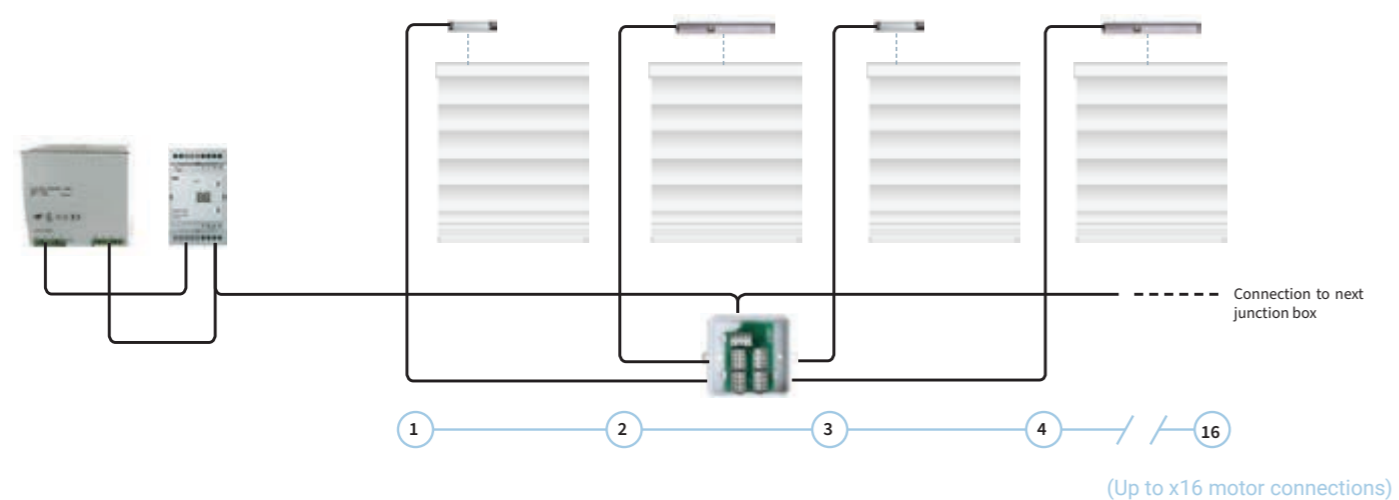


# Vestamatic SMI Motors



## Roman Shades

- Lovoline 24VDC

### Connection Example



### Product Details

LL			
	LL-Side motor 24VDC w Pancon connector Interface: SMI	01010110	LL-SMI-24/0,9Nm RS
	LL-Seitenmotor 24VDC mit Pancon Steckverbindung Schnittstelle: SMI		
	LL-Centre motor 24VDC w JST connector Interface: SMI	01010407	LL-SMI-24C/1,2Nm RS - Oldham Coupling fix
	LL-Mittelmotor 24VDC mit JST Steckverbindung Schnittstelle: SMI		

- Connection product details and accessories can be found from page: **39**
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# SMI Wiring concept and solutions

Allowing fast, secure and  
cost efficient connections



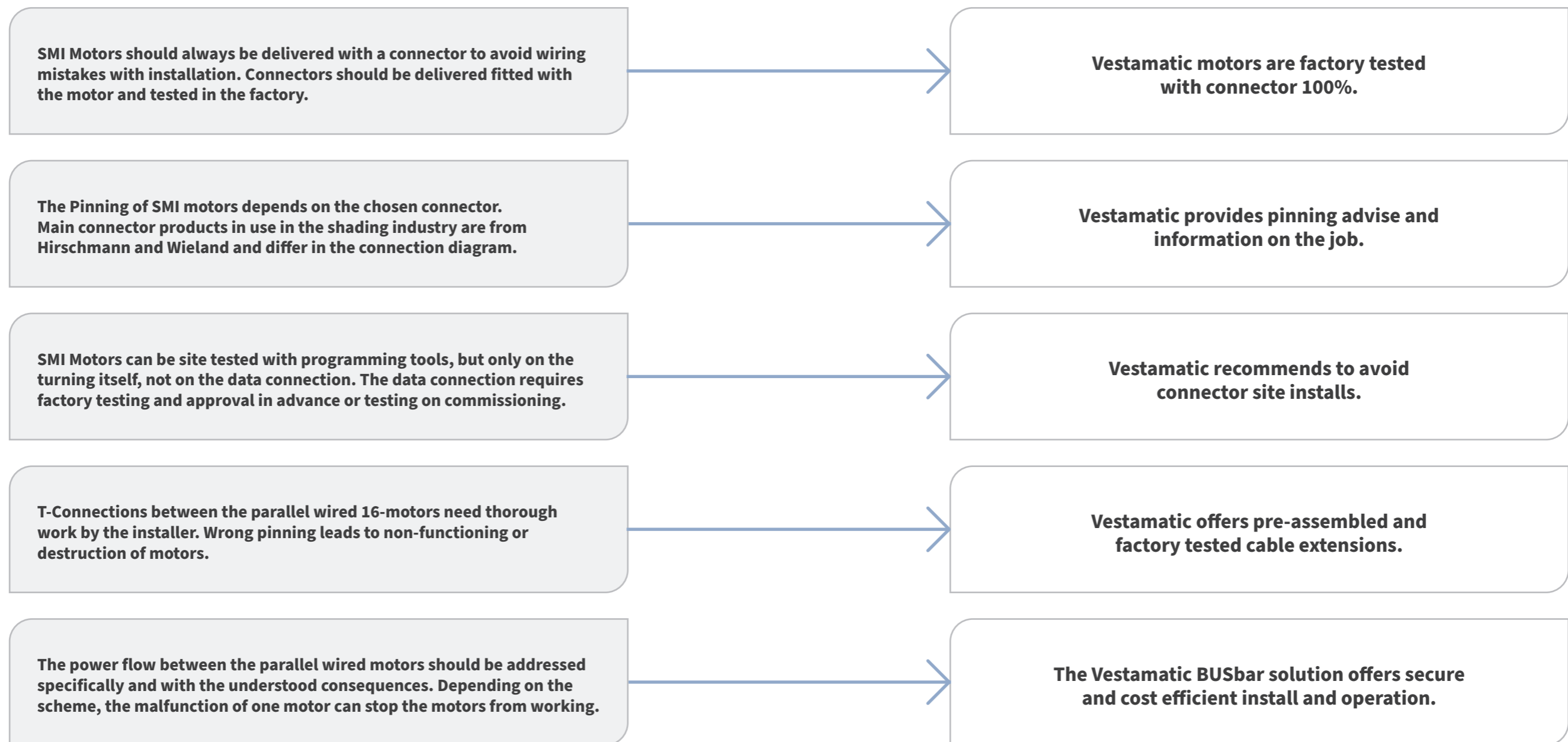
# The Importance of Wiring

## SMI Installations

Vestamatic Solution Package - Managing Connections

Vestamatic offers advice in planning and delivering SMI jobs as turnkey packages.

A crucial and important part in delivering SMI projects is structured cabling. SMI is a 5-core BUS that differs from a conventional cable and needs attention in the planning phase:








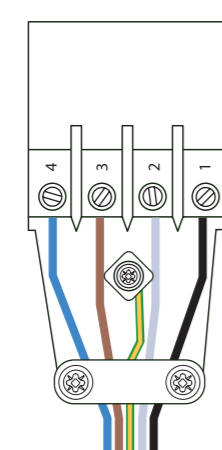
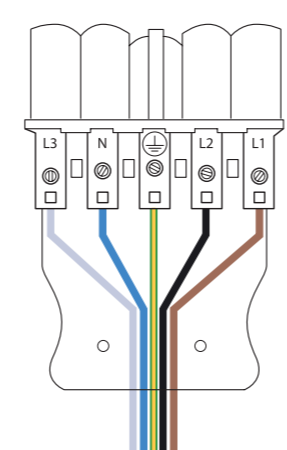
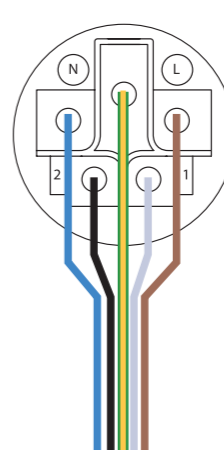
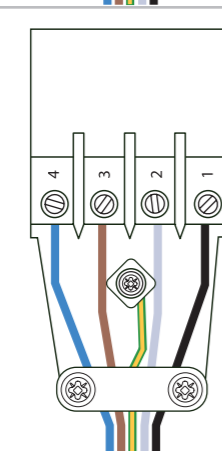
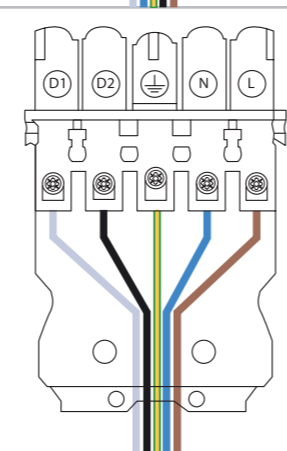
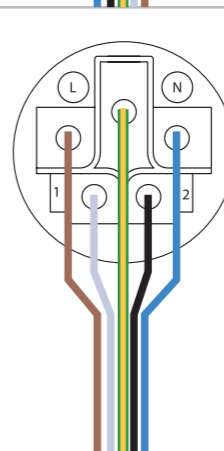
# The Importance of Wiring

## 230V SMI Installations

Vestamatic Solution Package - Managing Connections

- Different cable lengths possible
- Halogen-free or PVC cable options
  - White or black cables
- Extension cables on demand

Fitting and testing the connector in the factory and avoid site issues

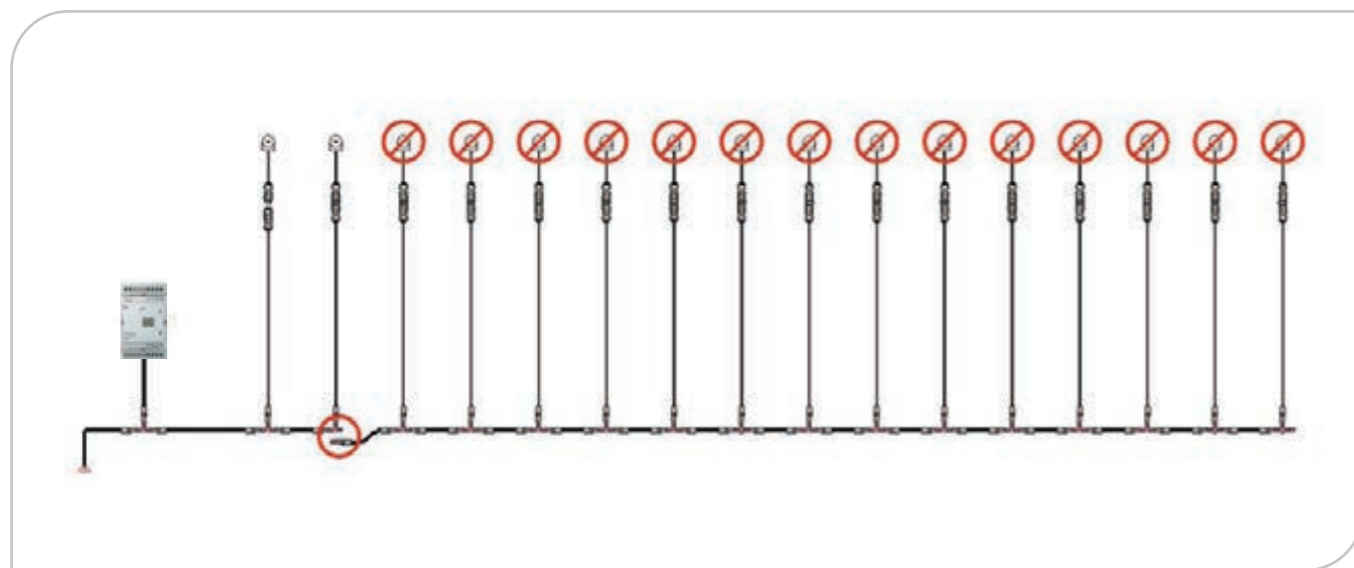
	Hirschmann STAS/STAK4		Wieland GST-M/F		Wieland RST-M/F	
Motor Fitting Service						
	Item No.: 54500840		Item No.: 54502012		Item No.: 54502013	
	VL-CON Motor Hirschmann STAS4 & Clip Supply & Fit	STAS4 Assembly Service to motor incl. Service and connector STAS4 Konfektion am Motor inkl. Service und Stecker	VL-CON Motor WD 5P GST-M Supply & Fit	WD 5P GST-M Assembly Service to motor incl. Service and connector WD 5P GST-M Konfektion am Motor inkl. Service und Stecker	VL-CON Motor WD 5P RST-M Supply & Fit	WD 5P RST-M Assembly Service to motor incl. Service and connector WD 5P RST-M Konfektion am Motor inkl. Service und Stecker
Pinning		<b>STAS4 - Motor Side</b> 1: I+ (black) 2: I- (grey) 3: L (brown) 4: N (blue) 5: Earth (green/yellow)		<b>GST-M - Motor Side</b> L3: I- (white) N: Neutral (blue) Earth: Earth (green/yellow) L2: I+ (black) L1: Live (brown)		<b>RST M - Motor Side</b> L: Live (brown) 1: I- (white) 2: I+ (black) N: Neutral (blue) Earth: Earth (green/Yellow)
		<b>STAK4</b> 1: I+ (black) 2: I- (grey) 3: L (brown) 4: N (blue) 5: Earth (green/yellow)		<b>GST-F</b> D1: I- (white) D2: I+ (black) Earth: Earth (green/yellow) N: Neutral (blue) L: Live (brown)		<b>RST F</b> L: Live (brown) 1: I- (white) 2: I+ (black) N: Neutral (blue) Earth: Earth (green/Yellow)

# Understanding T-Connections

Properly understanding T-Connections when Parallel wiring

## Managing T-Connections w/o BUSbar

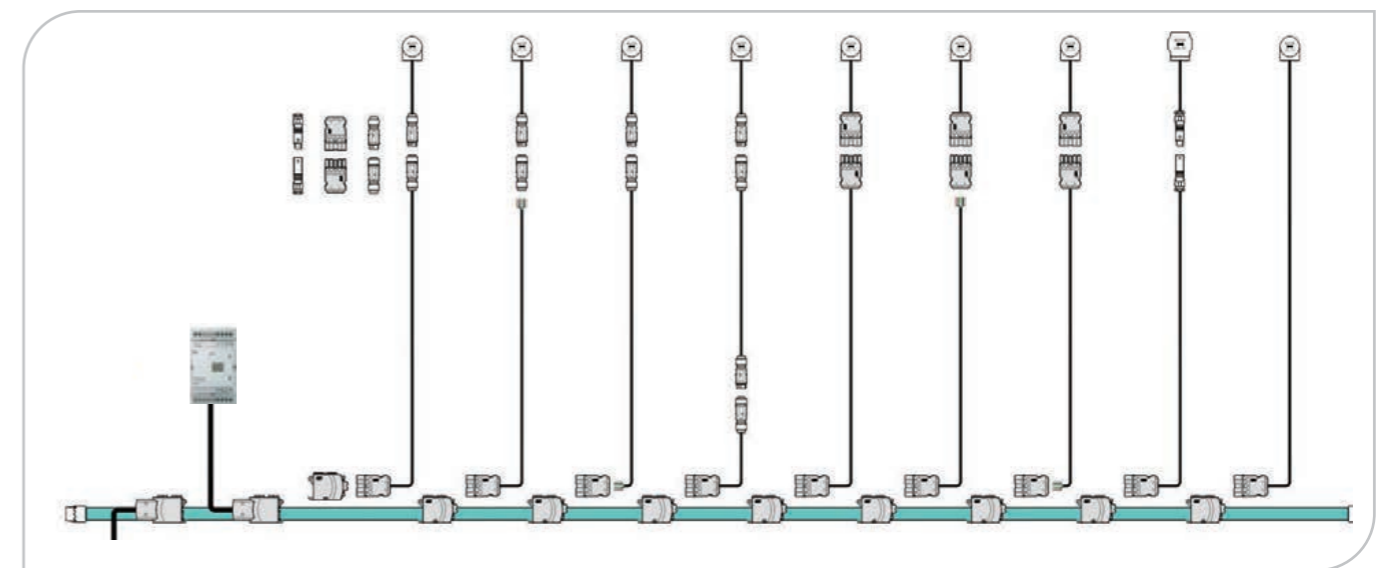
SMI 230V projects can be wired using conventional 5-core cables and connection in the form of junction boxes or T-connectors. The risk in wiring that way is shown below:



A malfunction of one motor or blind, will lead to the whole segment being offline. We have therefore developed our BUSbar solution – which is shown on the next page – to avoid potential problems.

## Managing T-Connections with BUSbar

Our BUSbar solution is based on a flat cable with 5-cores and all motor and power connections being pluggable.



# The Importance of Wiring

## 230V SMI Installations

Vestamatic Solution Package - Managing Connections

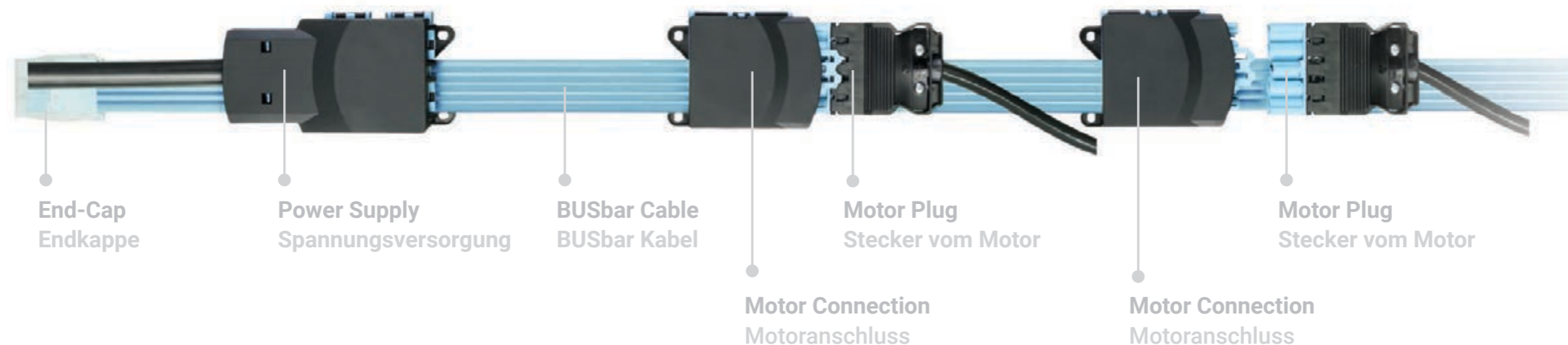
Vestamatic offers planning, components and/ or pre-assembled units to deliver the BUSbar solution in the best possible way.

The BUSbar - a pluggable, efficient, and cost effective electrical installation system.

Power up to x16 blinds per segment.

Power and data over the BUSbar cable to all motors from a central point.

We offer a range of systems differing in connector dimensions and power supply; principle remains the same.






# The Importance of Wiring


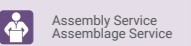

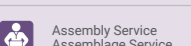

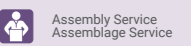
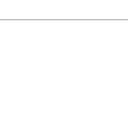
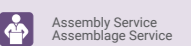
## 230V SMI Installations

Hirschmann and Wieland Products and Solutions











## Hirschmann Components and Cable Extension

Hirschmann STAS/STAK 4 Components			
	Connector: Hirschmann STAS4 Stecker: Hirschmann STAS4	54500530	Hirschmann STAS 4
	Connector: Hirschmann STAK4 Stecker: Hirschmann STAK4	54500540	Hirschmann STAK 4
	STAS4 I Security clip to lock STAS > STAK4 STAS4 I Sicherungsbügel zwischen STAS4 > STAK4	54500550	Hirschmann STAS I 4 Clip




Hirschmann STAS/STAK 4 Extension Leads					
	Cable Assembly STAK4 > free end PVC hose line 100mm isolated, 5 ferrules I H05VV-F 5G0,75  Kabelkonfektion STAK4 > 5-Adern PVC Schlauchleitung 100mm abisiert und 5 Aderendhülsen I H05VV-F 5G0,75	1 m	54500800	VL-CON cable Hirschmann STAK4	
		3 m	54500810		
		5 m	54500820		
		7.5 m	54500701		
		10 m	54500830		
		15 m	54500702		
		20 m	54500703		
	Halogen-free	1 m	54185630	VL-CON cable Hirschmann STAK4 HF	
		3 m	54185631		
		5 m	54185632		
		7.5 m	54185633		
		10 m	54185634		
		15 m	54185635		
		20 m	54185636		
	Cable Assembly STAK4 > STAS4 PVC hose line H05VV-F 5G0,75  Kabelkonfektion STAK4 > STAS4 PVC Schlauchleitung H05VV-F 5G0,75	1 m	54500850	VL-EXT. cable Hirschmann STAK/STAS4	
		3 m	54500860		
		5 m	54500870		
		10 m	54500880		
		10 m	54500880		
	Halogen-free	1 m	54185637	VL-EXT. cable Hirschmann STAK/STAS4 HF	
		3 m	54185638		
		5 m	54185639		
		10 m	54185640		
		10 m	54185640		









## Wieland GST Components and Cable Extension

Wieland GST Components			
	Connector: WD 5P GST-M Stecker: WD 5P GST-M	54502005	WD BUSline 5P GST-M
	Connector: WD 5P GST-F Stecker: WD 5P GST-F	54502006	WD BUSline 5P GST-F
	WD Security clip to lock WD 5P GST-M > GST-F WD Sicherungsbügel zwischen WD 5P GST-M > GST-F	54502102	WD BUSline 5P GST Lock




Wieland GST Extension Leads					
	Cable Assembly WD 5P GST-F > free end PVC hose line 100mm isolated, 5 ferrules I H05VV-F 5G1,5 Kabelkonfektion WD 5P GST-F > 5-Adern PVC 100mm abisoliert und 5 Aderendhülsen I H05VV-F 5G1,5	1 m	54502110	VL-CON WD BUSline 5P GST-F + 5*1.5mm>-Free-end PVC	 Assembly Service Assemblage Service
		3 m	54502111		
		5 m	54502112		
		10 m	54502113		
	Halogen-free	1 m	54502114	VL-CON WD BUSline 5P GST-F + 5*1.5mm>-Free-end HF	 Assembly Service Assemblage Service
		3 m	54502115		
		5 m	54502116		
		10 m	54502117		
	Cable Assembly WD 5P GST-M > WD 5P GST-F PVC hose line H05VV-F 5G1,5 Kabelkonfektion WD 5P GST-M > WD 5P GST-F 1m PVC H05VV-F 5G1,5	1 m	54502071	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm>GST-F PVC	 Assembly Service Assemblage Service
		3 m	54502072		
		5 m	54502073		
		10 m	54502074		
	Halogen-free	1 m	54502075	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm>GST-F HF	 Assembly Service Assemblage Service
		3 m	54502076		
		5 m	54502077		
		10 m	54502078		

## Wieland RST Components and Cable Extension









Wieland RST Components			
	Connector: WD 5P RST-M Stecker: WD 5P RST-M	54502007	WD BUSline 5P RST-M
	Connector: WD 5P RST-F Stecker: WD 5P RST-F	54502008	WD BUSline 5P RST-F
	WD BUSbar RST-M Cover WD BUSbar RST-M Abdeckkappe	54501999	WD BUSline 5P RST-M Cap

Wieland RST Extension Leads					
	Cable Assembly WD 5P RST-F > free end PVC hose line 100mm isolated, 5 ferrules I H05VV-F 5G1,5 Kabelkonfektion WD 5P RST-F > 5-Adern 1m PVC 100mm abisoliert und 5 Aderendhülsen I H05VV-F 5G1,5	1 m	54502038	VL-CON WD BUSline 5P RST-F + 5*1.5mm >Free-end PVC	 Assembly Service Assemblage Service
		3 m	54502039		
		5 m	54502040		
		10 m	54502041		
	Halogen-free	1 m	54502042	VL-CON WD BUSline 5P RST-F + 5*1.5mm >Free-end HF	 Assembly Service Assemblage Service
		3 m	54502043		
		5 m	54502044		
		10 m	54502045		
	Cable Assembly WD 5P RST-F > WD 5P RST-M PVC hose line H05VV-F 5G1,5 Kabelkonfektion WD 5P RST-F > WD 5P RST-M 1m PVC H05VV-F 5G1,5	1 m	54502046	VL-CON WD BUSline>BUSline 5P RST-F + 5*1.5mm >RST-M PVC	 Assembly Service Assemblage Service
		3 m	54502047		
		5 m	54502048		
		10 m	54502049		
	Halogen-free	1 m	54502050	VL-CON WD BUSline>BUSline 5P RST-F + 5*1.5mm >RST-M HF	 Assembly Service Assemblage Service
		3 m	54502051		
		5 m	54502052		
		10 m	54502053		

## BUSbar Components

BUSbar Components			
	<b>WD BUSbar</b> Flat cable 5P I green I PVC	54502000	WD BUSbar 5P Green PVC
	WD BUSbar Flachbandkabel 5P I grün I PVC		
	<b>WD BUSbar</b> Flat cable 5P I blue I PVC	54502081	WD BUSbar 5P Blue PVC
	WD BUSbar Flachbandkabel 5P I blau I PVC		
	<b>WD BUSbar</b> Flat cable 5P I black I PVC	54502082	WD BUSbar 5P Black PVC
	WD BUSbar Flachbandkabel 5P I schwarz I PVC		
	<b>WD BUSbar</b> Flat cable 5P I black I PVC	54502084	WD BUSbar 5P Black HF
	WD BUSbar Flachbandkabel 5P I schwarz I PVC		
	<b>WD BUSbar</b> Motor Clamp on BUSbar	54502003	WD BUSbar 5P Clamp with GST-F
	WD BUSbar Motorklemme auf BUSbar		
	<b>WD BUSbar</b> Power supply clamp on BUSbar	54502004	WD BUSbar 5P Clamp SM
	WD BUSbar Einspeisemodul auf BUSbar		
	<b>WD Splitter</b> 1 WD 5P RST-M > 2x RST-F	54502009	WD BUSline 5P Con Splitter 1 Male>2 Female RST
	WD Verteiler 1 WD 5P RST-M > 2x RST-F		
	<b>WD BUSbar</b> Endcap for BUSbar (2 by segment)	54502002	WD BUSbar 5P Endcap
	WD BUSbar Endstück für BUS-Abschluss (2 je Segment)		
	<b>WD BUSbar</b> Mounting Clip for BUSbar wall/ ceiling mount	54502125	WD BUSbar 5P Cable Clip
	WD BUSbar Montageclip zur BUSbar-Wand-/Deckenbefestigung		

## BUSbar Motor Extension Leads

BUSbar Motor Extension Leads					
	<b>Cable Assembly WD 5P Clamp</b> SM > free end PVC hose line 100mm isolated, 5 ferrules I H05RR-F 5G2,5	1 m 3 m 5 m 10 m	54502014 54502015 54502016 54502017	VL-CON WD BUSbar 5P SM + 5*2.5mm cable PVC	 Assembly Service Assemblage Service
	Kabelkonfektion WD 5P Clamp SM > 5-Adern 1m PVC 100mm abisoliert und 5 Aderendhülsen I H05RR-F 5G2,5				
	<b>Halogen-free</b>	1 m 3 m 5 m 10 m	54502018 54502019 54502020 54502021	VL-CON WD BUSbar 5P SM + 5*2.5mm cable HF	
	<b>Cable Assembly WD 5P GST-M</b> > WD 5P GST-F PVC hose line H05VV-F 5G1,5	1 m 3 m 5 m 10 m	54502071 54502072 54502073 54502074	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm >GST-F PVC	 Assembly Service Assemblage Service
	Kabelkonfektion WD 5P GST-M > WD 5P GST-F 1m PVC H05VV-F 5G1,5				
	<b>Halogen-free</b>	1 m 3 m 5 m 10 m	54502075 54502076 54502077 54502078	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm >GST-F HF	
	<b>Cable Assembly WD 5P GST-M</b> > Hirschmann STAK4 PVC hose line H05VV-F 5G1,5	1 m 3 m 5 m 10 m	54502063 54502064 54502065 54502066	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm >STAK4-F PVC	 Assembly Service Assemblage Service
	Kabelkonfektion WD 5P GST-M > STAK4 PVC H05VV-F 5G1,5				
	<b>Halogen-free</b>	1 m 3 m 5 m 10 m	54502067 54502068 54502069 54502070	VL-EXT WD BUSline>BUSline 5P GST-M + 5*1.5mm >STAK4-F HF	
	<b>Cable Assembly WD 5P GST-M</b> > WD 5P RST-F PVC hose line H05VV-F 5G1,5	1 m 3 m 5 m 10 m	54502030 54502031 54502032 54502033	VL-EXT WD BUSline>BUSline 5P RST-F + 5*1.5mm >GST-M PVC	 Assembly Service Assemblage Service
	Kabelkonfektion WD 5P GST-M > WD 5P RST-F 1m PVC H05VV-F 5G1,5				
	<b>Halogen-free</b>	1 m 3 m 5 m 10 m	54502034 54502035 54502036 54502037	VL-EXT WD BUSline>BUSline 5P RST-F + 5*1.5mm >GST-M HF	

# The Importance of Wiring

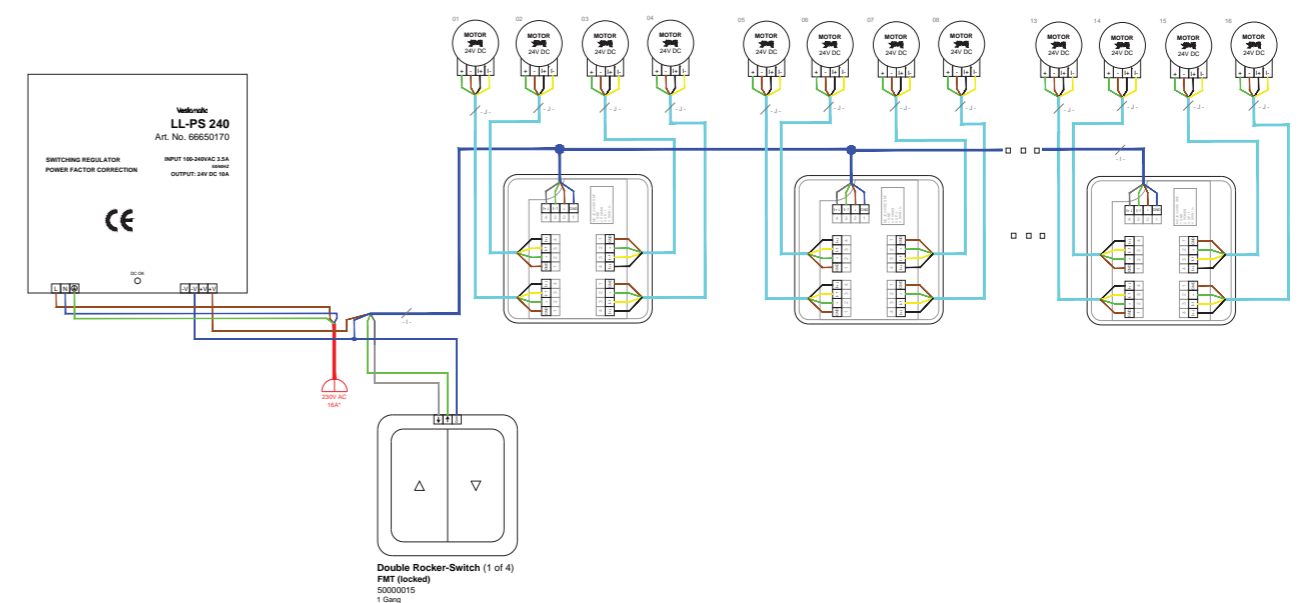
## 24VDC SMI Installations

Vestamatic Solution Package

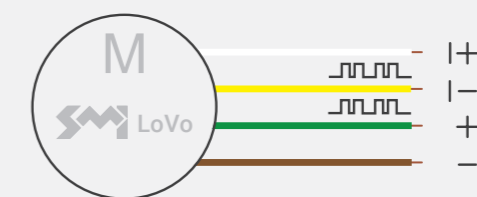


SMI Technology is being used in 24VDC as well, and offering significant advantages. The 4-core principle – instead of the commonly used 2-wire solution – provides power and signal over the same connection.

From a single supply all motors are connected and can be controlled digitally. To avoid problems, junction boxes are used to split the signal. The example below shows a 10A power supply operating 16 motors.



### LL-SMI Motors | LL-SMI Motoren



# Vestamatic RS485 Modbus Ecosystem

## Solutions for a better performance

Vestamatic has developed a product range of automation units that are designed to realise a blend of technologies for seamless combination with other manufacturers products.

The RS485 Modbus system is an open communication and is usable for 230VAC and 24VDC installations with SMI and with conventional topology.



# Vestamatic SMI Controls






## Shading Control Technology






Vestamatic SMI technology includes smart, adaptable and scalable solutions using our latest SMI control products.

Using the right configuration as seen in our ecosystem solutions, Vestamatic controllers provide intelligent future-proof shading automation with options to connect to a BMS and KNX interface. Options can also be made to adapt the configuration to allow for individual VRS switch and remote control for user control override of each motor/shading device. This gives complete user freedom to adjust the amount of shading required.

- Intelligent shading automation
- Individual or group control of shading devices
  - Scalable solutions
  - VRS switch and remote control options
  - Connection to BMS and KNX systems

## Vestamatic SMI Controls

Vestamatic SMI Controls			
	<b>Motor Control for 16 LL-SMI Motors with individual, group and central control</b> Interface: SMI/ RS485 I DIN-Rail  Motorsteuerung für 16 LL-Antriebe im RS485 System Schnittstellen: SMI / RS485 I Hutschiene	01092124	IF SMI RS-485 24VDC-DIN RAIL
	<b>Motor Control for 16 VL-SMI Motors with individual, group and central control</b> Interface: SMI/ RS485 I DIN-Rail  Motorsteuerung für 16 VL-Antriebe im RS485 System Schnittstellen: SMI / RS485 I Hutschiene	01092714	IF SMI RS-485 230VAC-DIN RAIL
	<b>Motor Control for 16 SMI Motors with individual, group and central control, 24V</b> Interface: SMI / Modbus I DIN-Rail  Motorsteuerung für 16 SMI-Antriebe mit individueller, Gruppen- und Zentralsteuerung, 24V Schnittstellen: SMI / Modbus I Hutschiene	01092125	IF SMI Modbus 24VDC  Available June 2024 - on request
	<b>Motor Control for 16 SMI Motors with individual, group and central control, 230V</b> Interface: SMI / Modbus I DIN-Rail  Motorsteuerung für 16 SMI-Antriebe mit individueller, Gruppen- und Zentralsteuerung, 230V Schnittstellen: SMI / Modbus I Hutschiene	01092126	IF SMI Modbus 230VAC  Available June 2024 - on request
	<b>Interface: KNX / RS485 I DIN-Rail</b> Connection: SMI Commands  Schnittstelle KNX / RS485 I Hutschiene Anbindung: SMI Befehle	01078157	IF KNX RS485 SMI  Available January 2024 - on request

Vestamatic Ecosystem			
	<b>Receiver and gateway ( RS485 ) for VRS transmitter</b>  Empfänger und Gateway ( RS485 ) für VRS Transmitter	01094000	Gateway RS485 VRS
	<b>Motor Control for 4 Motors with programmable functions with individual, group &amp; central control</b> Application: Shutters & Shades I RS485  Motorsteuerung mit Betriebsarten für 4 Antriebe mit Einzel-, Gruppen- und Zentralbedienung Applikation: Rollläden & Sonnenschutz I RS485	01077440	MC P4 RS485
	<b>Sensor to detect rain &gt; -1°C and frost for &lt; -1°C for RS485 for exterior install</b>  Sensor zur Erkennung von Regen (bis -1°C) und Frost (unter -1°C) für RS485 Außenmontage	010846	RD UNI RS485
	<b>1-channel wall switch</b> Interface: VRS I white  Wandsender 1-fach Schnittstelle: VRS I weiss	01820000	VRS Switch 1 weiss I white
	<b>2-channel wall switch</b> Interface: VRS I white  Wandsender 2-fach Schnittstelle: VRS I weiss	01820001	VRS Switch 2 weiss I white

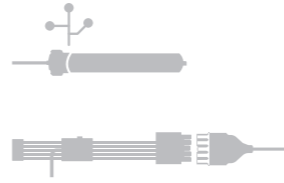
# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 230VAC

x16 motors on one BUSbar segment

### Motor Connection

- BUSBar connection - up to x16 blinds on one segment.
- SMI Motor connection to BUSBar with 5-pin BUSbar clamp.
- Plug and play wiring.



### Power Connection

- Power connection directly to BUSBar using 5-pin power clamp.



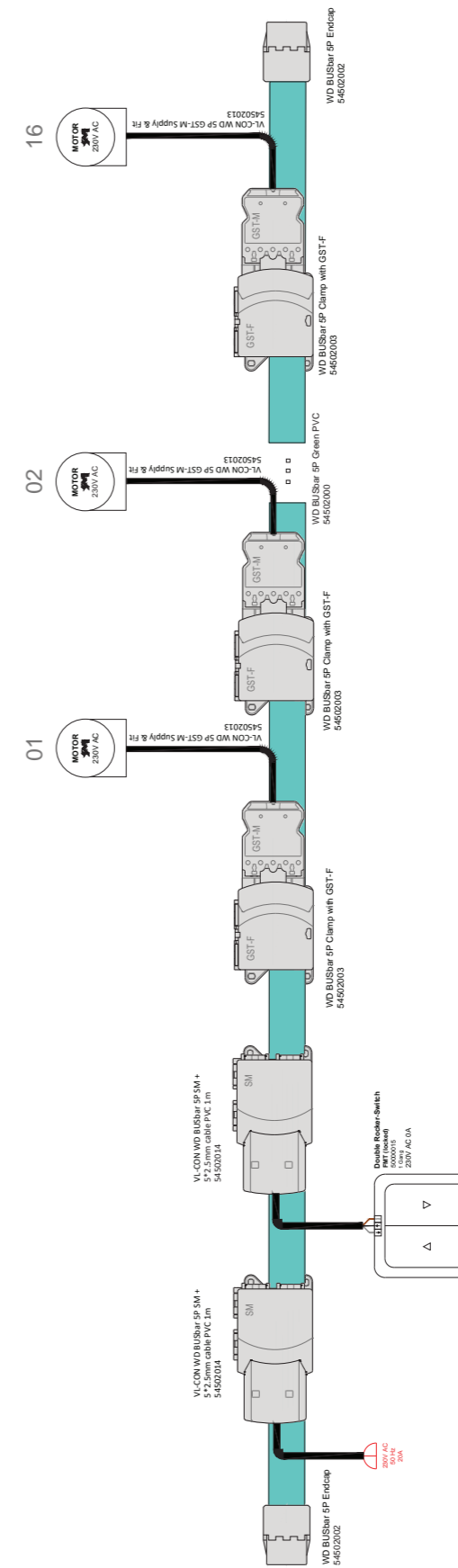
### Control & Connection

- Switch control operation of up to x16 motors in unison.
- Switch connection to BUSbar using 5-pin BUSbar clamp.



## Benefits

- Easy installation using pluggable connections
- Safe T-connections with parallel wiring of SMI motors
- Ready-made plug-in cables between Motor and BUSBar
- Reduced electrical installation work on the construction site
- Continuous power supply to all motors



Vestamatic

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Vestamatic SMI Topology 230VAC  
x16 motors on one BUSbar segment

Specification, printing errors and details are subject to change without notification.

# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 24VDC

x16 motors using one power supply and JC boxes

### Motor Connection

- SMI motor connection with x4 motor junction box units.

### Power Connection

- Power connection using 24VDC DIN-Rail power supply unit.

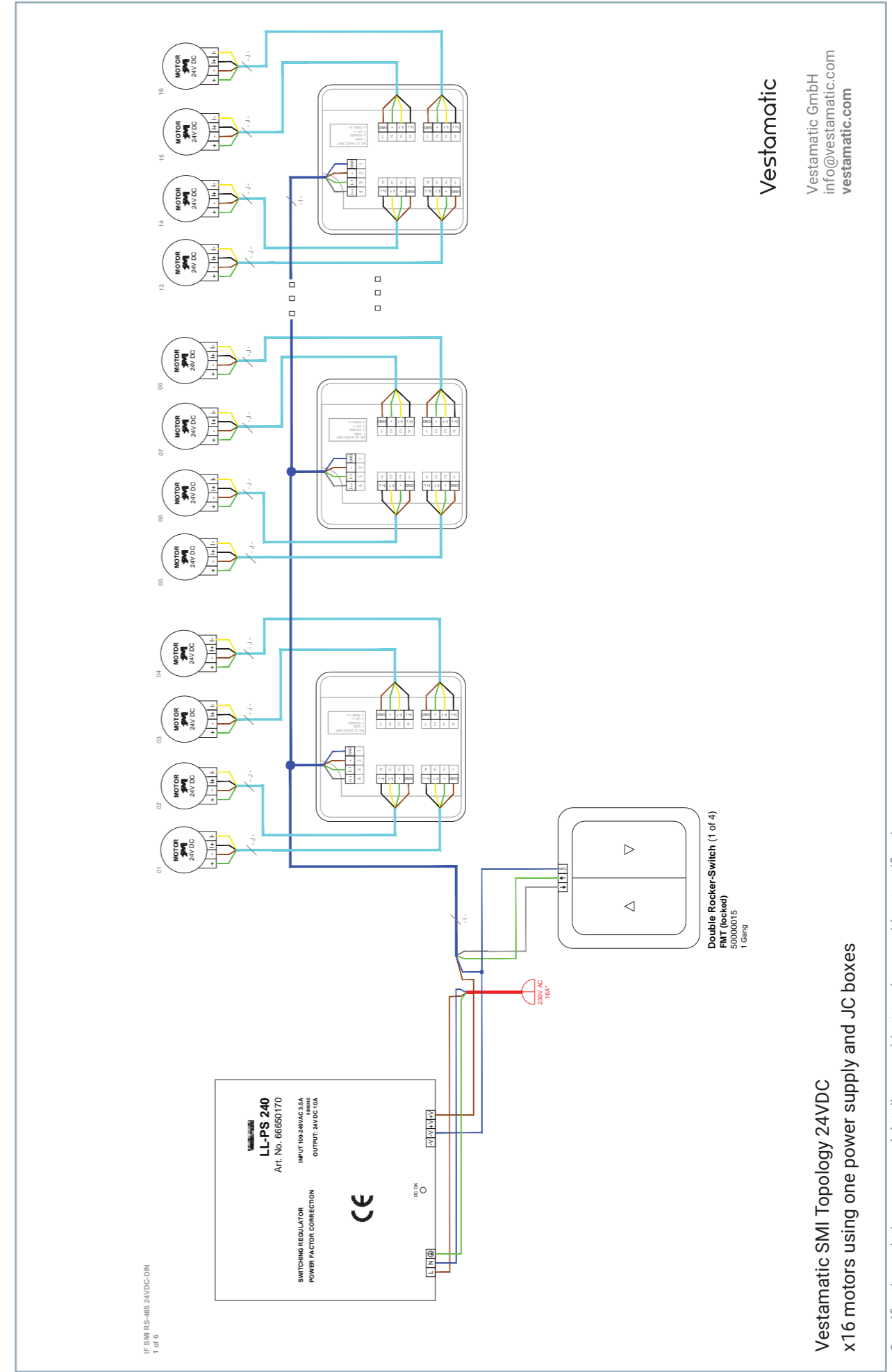
### Control & Connection

- Switch control operation of up to x16 motors in unison.



## Benefits

- Junction Box connection for linking motors to power and control
- Power supply unit - x16 motors plus additional connections
- Continuous power supply to all motors



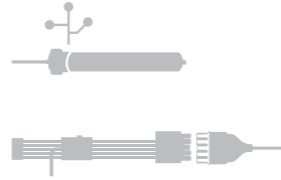
# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 230VAC

x16 motors on one BUSbar segment with  
x1 IF SMI RS485

### Motor Connection

- BUSBar connection - up to x16 blinds on one segment.
- SMI Motor connection to BUSBar with 5-pin BUSbar clamp.
- Plug and play wiring.



### Power Connection

- Power connection using BUSbar 5-pin BUSbar clamp to IF SMI RS485 interface.



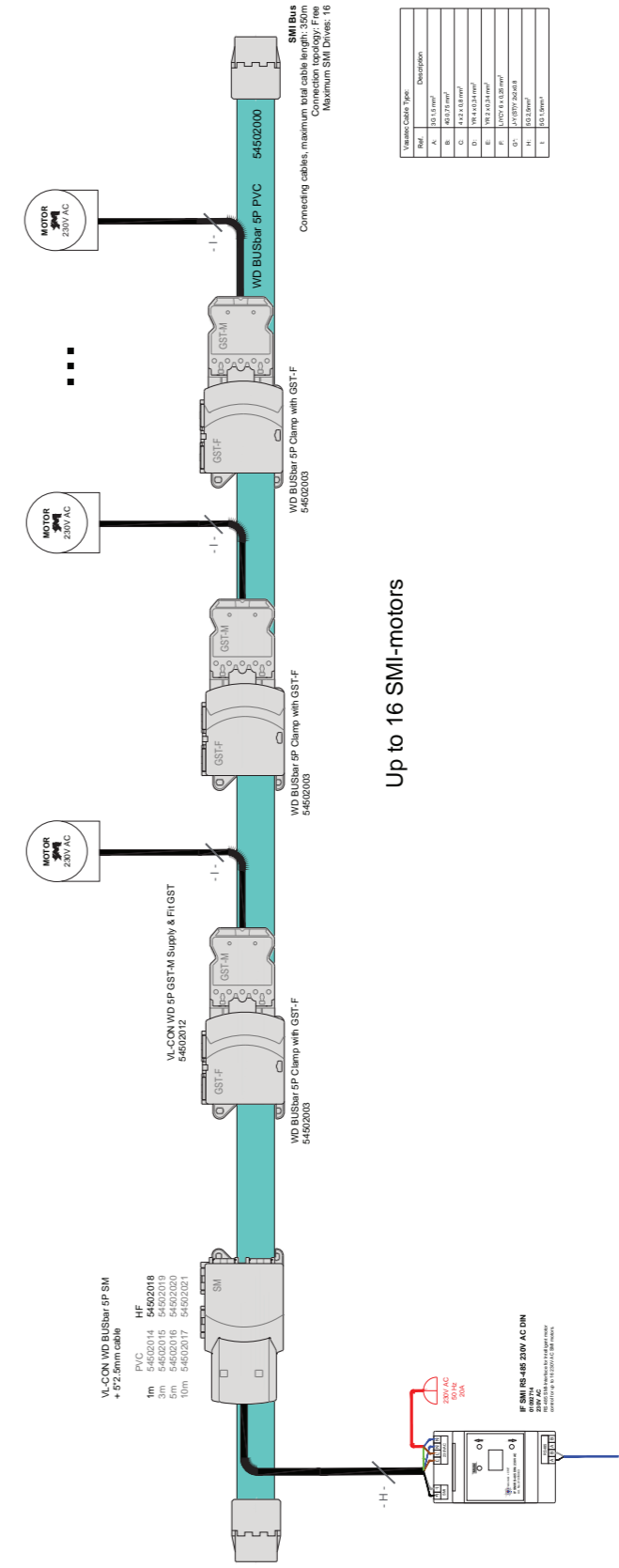
### Control & Connection

- Intelligent motor control of up to x16 motors using IF SMI RS485 interface.
- Interface connection to BUSbar using 5-pin BUSbar clamp.
- Connection to Building Management Systems.



## Benefits

- Individual motor control or as a group/zone
- Intelligent control - programmed solar path timed operation of motors/shading
- Easy installation using pluggable connections
- Safe T-connections with parallel wiring of SMI motors
- Ready-made option of plug-in cables between Motor and BUSBar
- Continuous power supply to all motors
- Connection to BMS interface - status feedback and real-time reporting



Vestamatic SMI Topology 230VAC  
x16 motors on one BUSbar segment with x1 IF SMI RS485

Specification, printing errors and details are subject to change without notification.

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# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 24VDC

x16 motors using one power supply and JC boxes with x1 IF SMI RS485

### Motor Connection

- SMI motor connection via x4 motor junction box units.



### Power Connection

- Power connection using 24VDC DIN-Rail power supply unit.



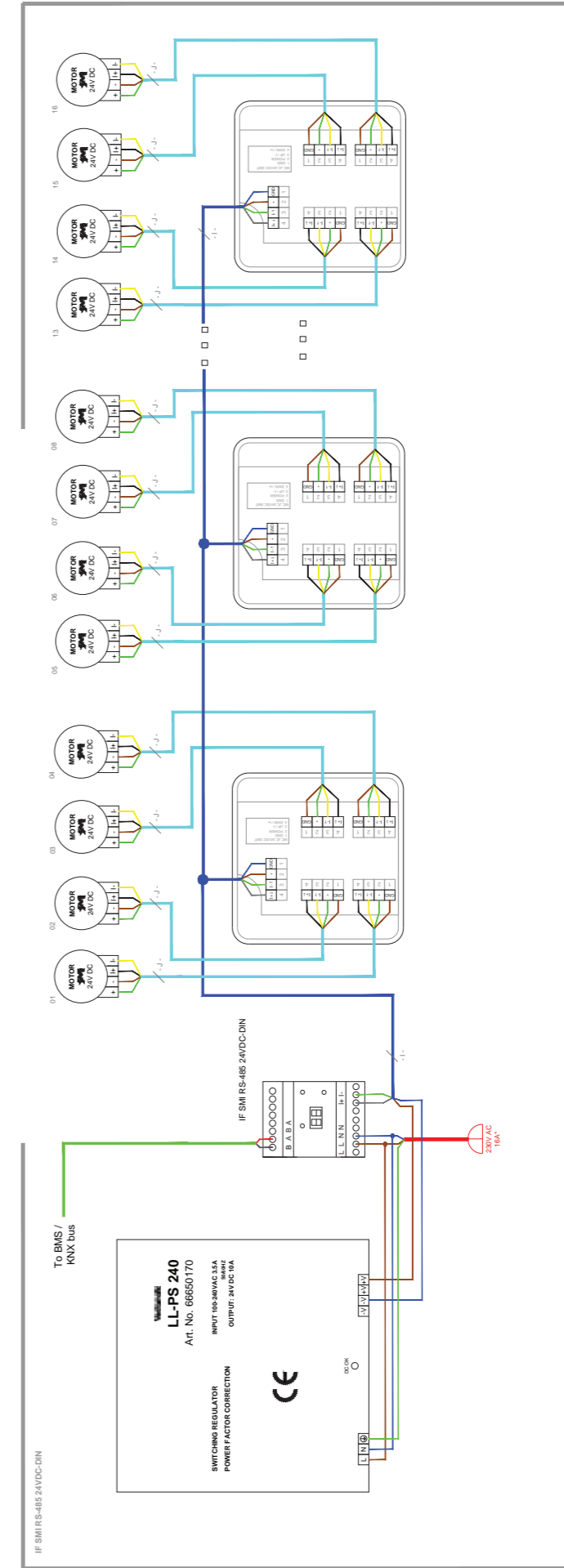
### Control & Connection

- Intelligent motor control using IF SMI RS485 interface.
- Connection to Building Management Systems / KNX BUS.



## Benefits

- Individual motor control or as a group/zone
- Intelligent control - programmed solar path timed operation of motors/shading
- Continuous power supply to all motors
- Connection to BMS interface - status feedback and real-time reporting
- Junction Box connection for linking motors to power and control



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Vestamatic SMI Topology 24VDC  
x16 motors using one power supply and JC boxes with x1 IF SMI RS485

Specification, printing errors and details are subject to change without notification.

# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 230VAC

x 16 motors on one BUSBar segment with x1 IF SMI RS485,  
x 1 KNX/RS485, x1 VRS/RS485, VRS switches

### Motor Connection

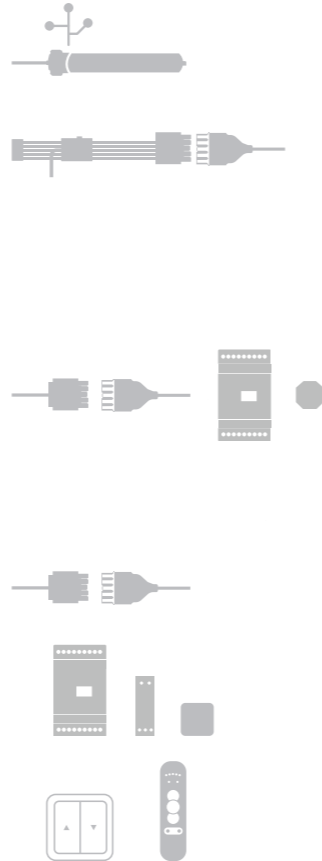
- BUSBar connection - up to x16 blinds on one segment.
- SMI Motor connection to BUSBar with 5-pin BUSbar clamp.
- Plug and play wiring.

### Power Connection

- Power connection using BUSbar 5-pin BUSbar clamp to IF SMI RS485 interface.
- VRS 485 receiver power connector.

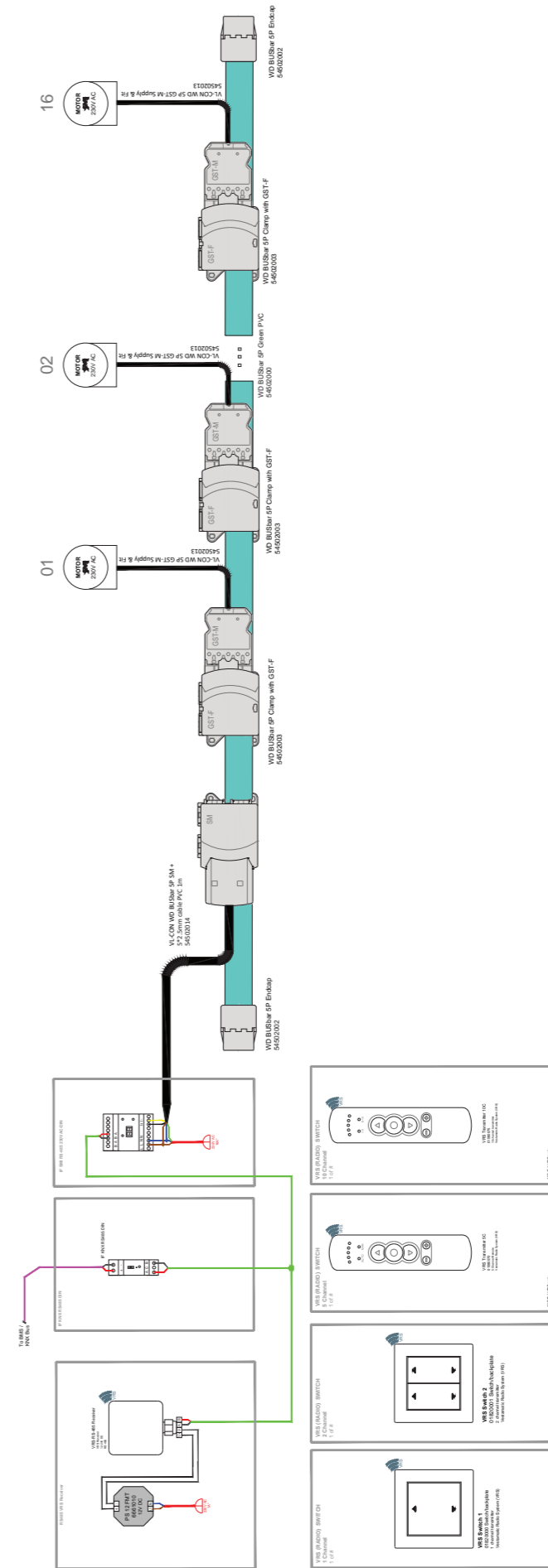
### Control & Connection

- Intelligent motor control of up to x16 motors using IF SMI RS485 interface.
- Interface connection to BUSbar using 5-pin BUSbar clamp.
- IF KNX RS485 gateway connection for BMS/KNX BUS.
- Connection to VRS 485 receiver for VRS switch and remote control per motor.



## Benefits

- Individual motor control or as a group/zone
- Intelligent control - programmed solar path timed operation of motors/shading
- VRS remote, switch or both - user override control for each motor/shading system
- Connection to BMS and KNX interface - status feedback and real-time reporting
- Easy installation using pluggable connections
- Safe T-connections with parallel wiring of SMI motors
- Ready-made option of plug-in cables between Motor and BUSBar
- Continuous power supply to all motors



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Vestamatic SMI Topology 230VAC  
x 16 motors on one BUSBar segment with x 1 IF SMI RS485, x1 KNX/RS485, x1 VRS/RS485, VRS switches

Specification, printing errors and details are subject to change without notification.

# Vestamatic Ecosystem Solutions

## SMI Electrical Installation - 24VDC

x16 motors using one power supply and JC boxes with  
x1 IF SMI RS485, x1 KNX/RS485, x1 VRS/RS485, VRS switches

### Motor Connection

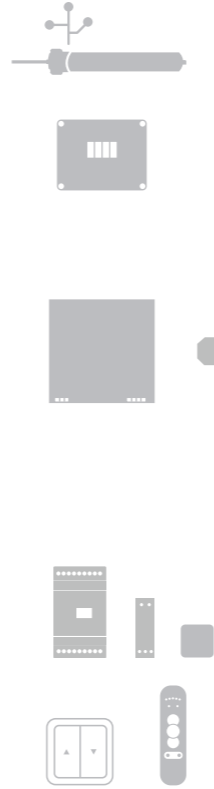
- SMI motor connection via x4 motor junction box units.

### Power Connection

- Power connection using 24VDC DIN-Rail power supply unit.
- VRS 485 receiver power connector.

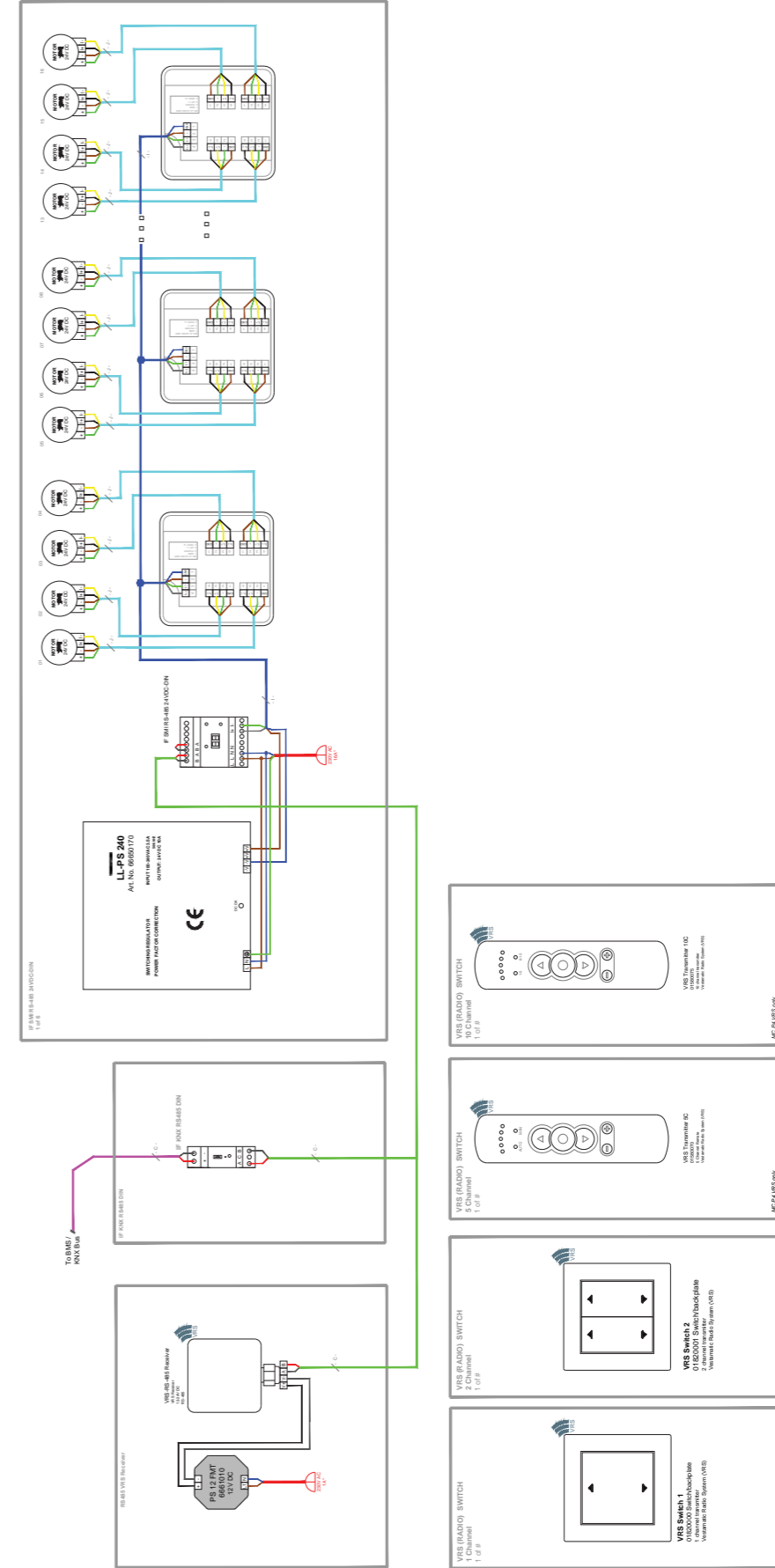
### Control & Connection

- Intelligent motor control of up to x16 motors using IF SMI RS485 interface.
- IF KNX RS485 gateway connection for BMS/KNX BUS.
- Connection to VRS 485 receiver for VRS switch and remote control per motor.



## Benefits

- Individual motor control or as a group/zone
- Intelligent control - programmed solar path timed operation of motors/shading
- VRS remote, switch or both - user override control for each motor/shading system
- Connection to BMS and KNX interface - status feedback and real-time reporting
- Continuous power supply to all motors



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Vestamatic SMI Topology 24VDC  
x16 motors using one power supply and JC boxes with x1 IF SMI RS485, x1 KNX/RS485, x1 VRS/RS485, VRS switches

Specification, printing errors and details are subject to change without notification.

# Management Summary

## Responsibilities in delivering SMI projects

### Ensure safe contracts with clear deliverables

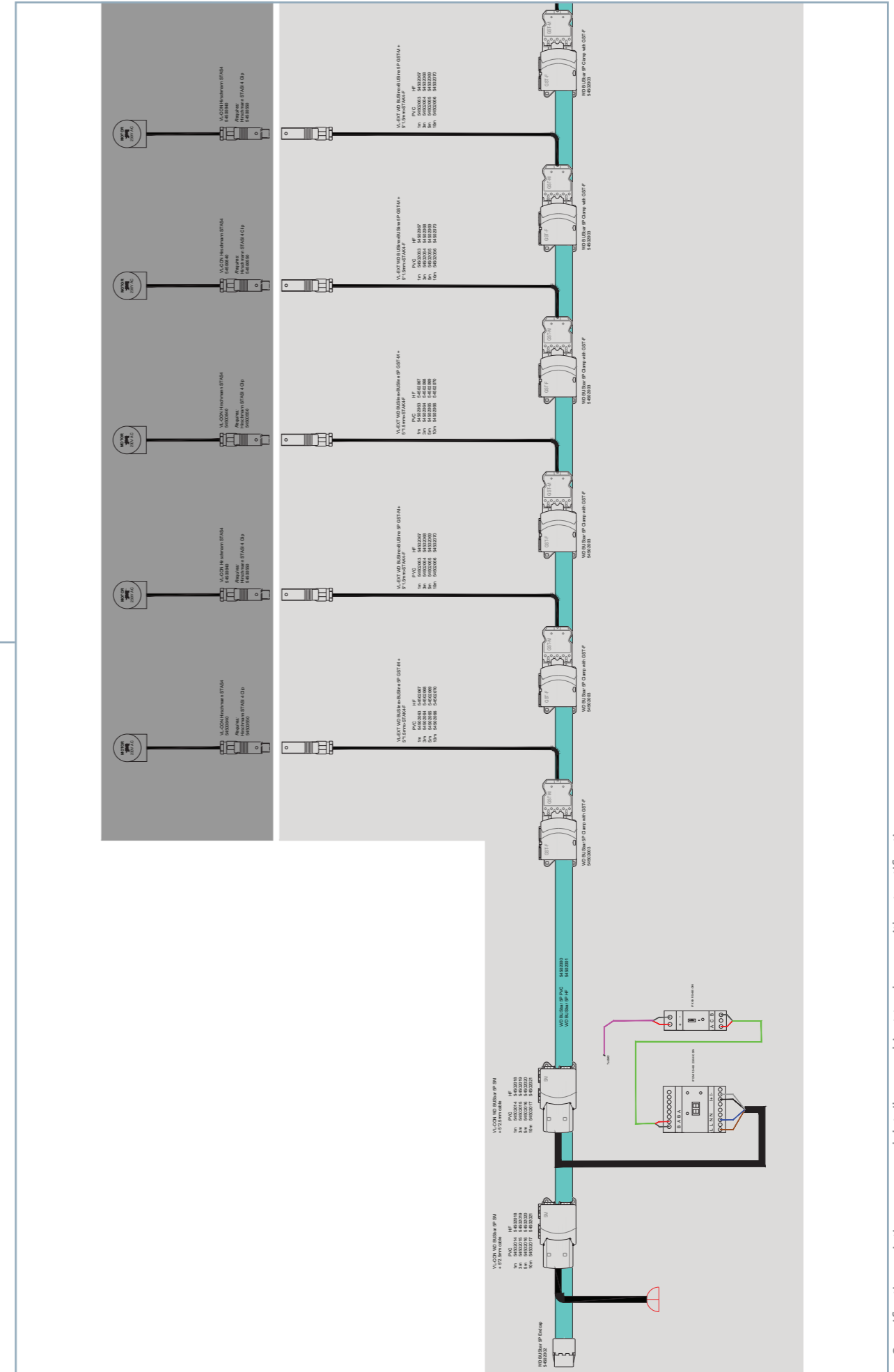
Delivering shading can prove to be difficult in deciding responsibilities between the blind installer and the automation installer and the commissioning integrator.

The drawing shows a usual split; dark grey = blind installer, light grey = automation. As Vestamatic we are consulting architects and planners in designing solutions, we deliver motors to blind fabricators, the controls to the electrical installers and we offer a service to program.

Our approach allows for all types of installations and the combination with 3rd party systems for seamless integration. Should there be any questions, our service teams can handle these requests.

 Dark grey = blind installer.

 Light grey = automation.



Specification, printing errors and details are subject to change without notification.



# Management Summary

## Wiring and prefabricated units

Reduce site work

Installation time on site can be greatly reduced using preassembled cables and connections from Vestamatic.

Vestamatic cable supply, motor connection, plug to plug cable assembly and extension services save connection time for a faster installation on-site. Cable connections are factory tested 100% ensuring correct and secure wiring.

Complete installation packages are available, including BUSbar, pluggable connections to motor, connecting cables and controls - all can be ordered directly for supply and delivery from Vestamatic during the planning phase.

### VESTAMATIC CABLE AND PLUG ASSEMBLY

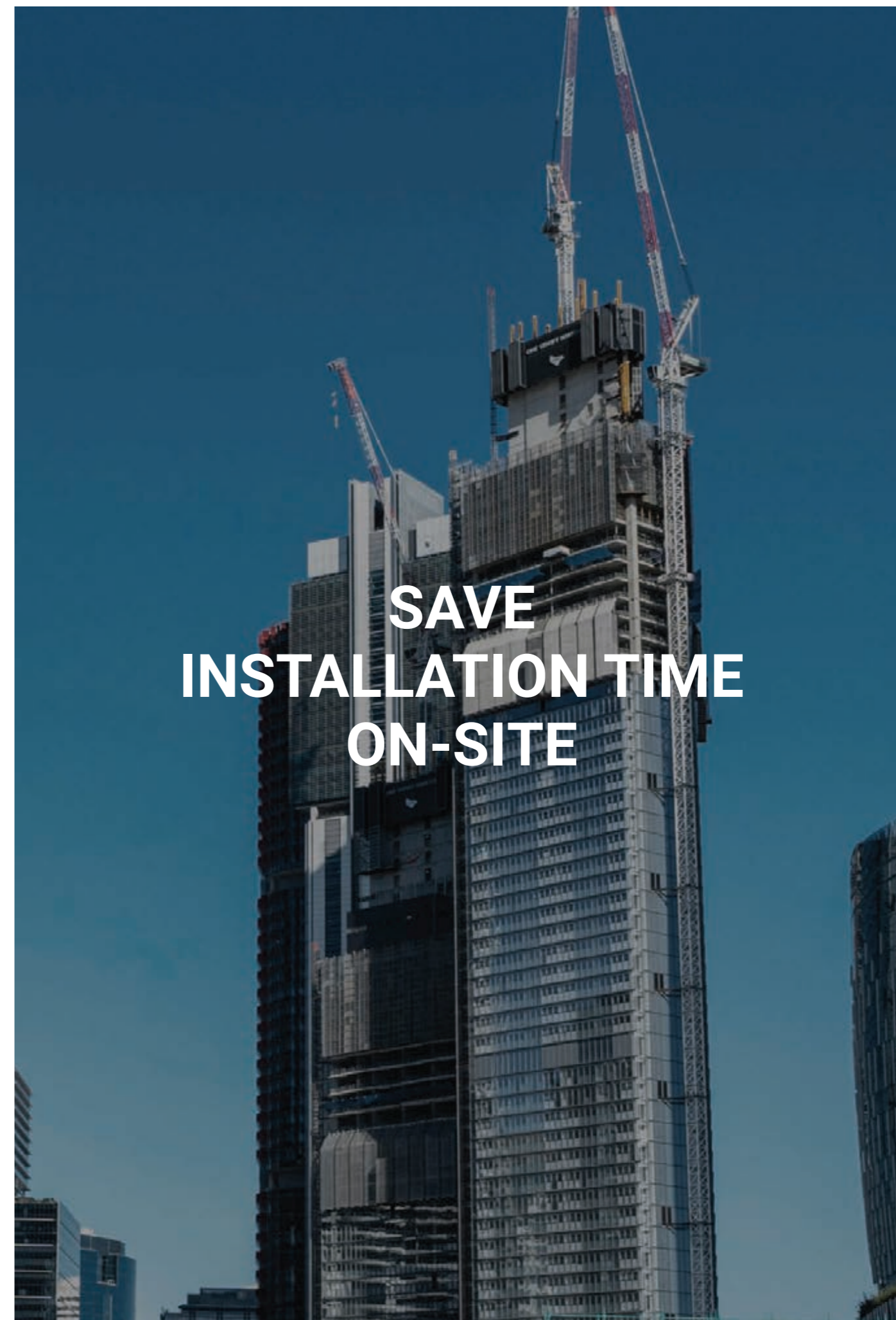
Supply and connection services.

- Plug and cable assembly to motor.
- Plug to plug supply and assemble service.
- Multiple lengths available.
- Order directly from Vestamatic.
- 100% factory tested.



#### Save Time

Reduce your installation time on-site with preassembled cables



# Management Summary

## Wiring to deliver sustainable technology

Reduced risk and price competitive

SMI installations can help to make today's buildings energy-efficient in a resource saving manner as part of renovations and new buildings can already benefit from the use of significantly fewer cables and significantly reduced construction times, during the planning phase.

Using 16 Motors	SMI 3.0 Motors	Conventional Motors
Cable length (m)	84	184
Connections (quantity)	48	92
Connections/poles (quantity)	240	352
Controllers/connectors (quantity)	16	20
Installation risks (quantity)	304	464

60% less cable /  
containment

Reduced installation  
time

50% reduced points  
of failure

Future  
proof

- Interior and exterior shading solutions are available.
- Power and two-way communication made easy
  - with parallel connection.
  - Reduces electrician costs - up to 80%.
- Easy to assemble plug & play solutions for all shading devices.
  - Removes human error.



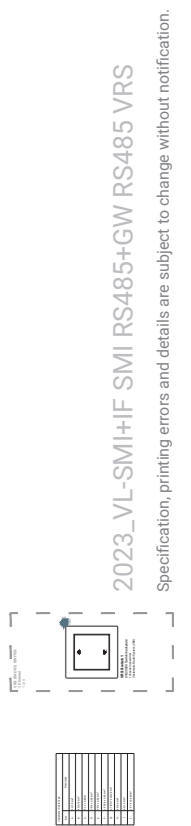
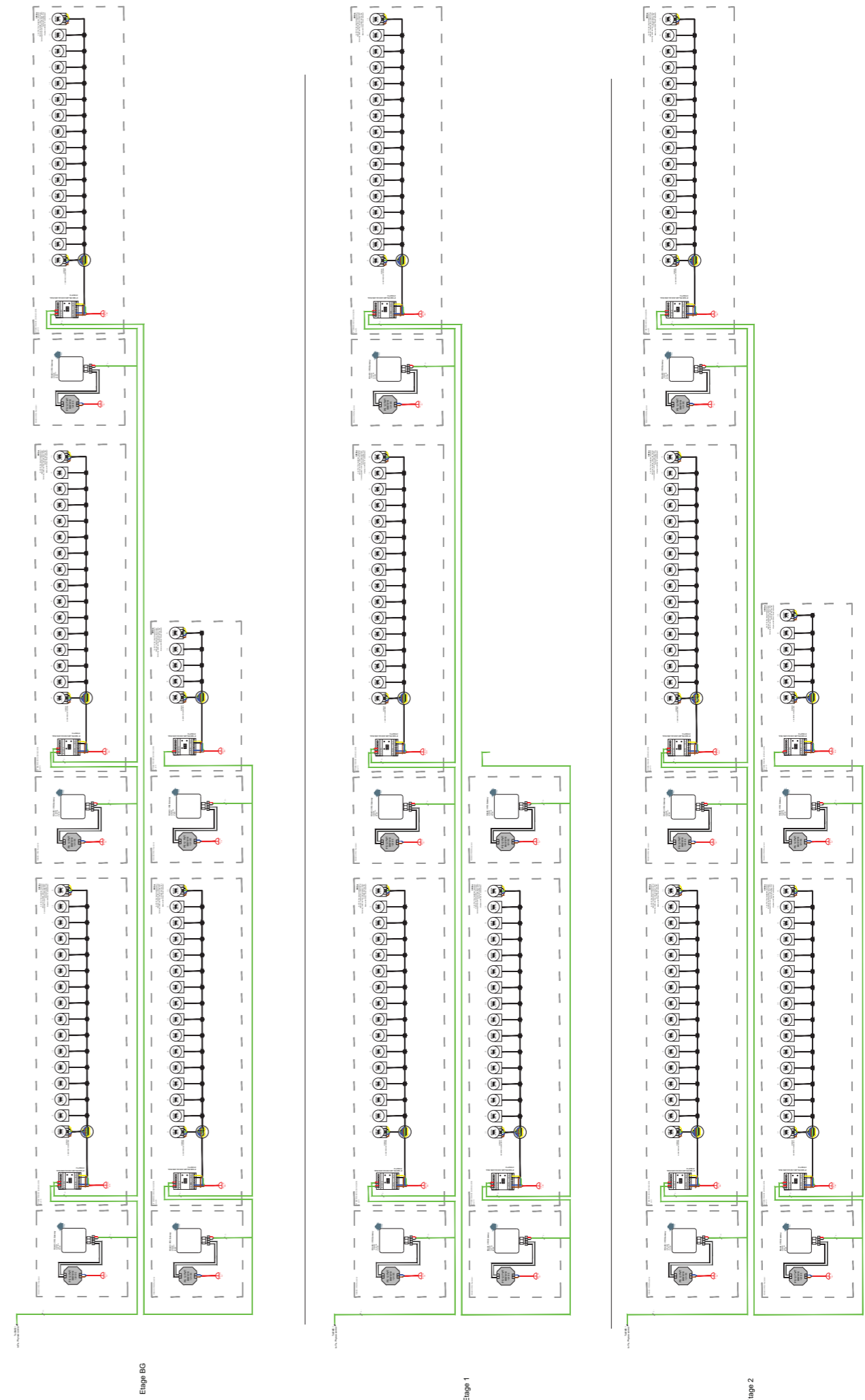
FAST, EFFICIENT,  
REDUCED COST,  
REDUCED RISK

# Management Summary

## Noteworthy experiences

At Vestamatic we have been delivering SMI products and solutions for more than 15 years all around the world and have collected some key experiences:

- 1 The motor and the control need to be planned as one.
- 2 SMI requires understanding on the software versions and functional difference between the motors and controls using SMI.
- 3 A combination of Vestamatic motors and Vestamatic controls allow for easier service work after install to adjust limits and functions.
- 4 The service of SMI Systems should actively be sold – especially the re-addressing and re-commissioning of motors.
- 5 SMI Installs require more than just 4 switches per 16 motors. The Vestamatic RS 485 Modbus Ecosystem with SMI allows easy extension of this number to multiple switches.
- 6 SMI Installs can also blend with conventional technology where needed in the building. With the RS485 Modbus Ecosystem, Vestamatic addresses this.
- 7 The integration into 3rd party system is 100% standard and a demand on almost all projects. The openness of SMI being a standard is a key advantage to proprietary technology.
- 8 With proper planning SMI is a very competitive solution.
- 9 SMI helps massively delivering green buildings by saving parts and delivering better performance every day.



2023\_VL-SMI+IF SMI RS485+GW RS485 VRS

Specification, printing errors and details are subject to change without notification.

# Vestamatic SMI Projects

Experience on a global scale

Vestamatic SMI products and solutions automate shading installations all around the world. Together with our partners we deliver smart project shading from office towers, residential complexes, hotels, hospitals and schools, providing glare-free and regulated interior conditions.



ONE SYDNEY HARBOUR



KASSELER SPARKASSE HQ



THE PULSE AMSTERDAM



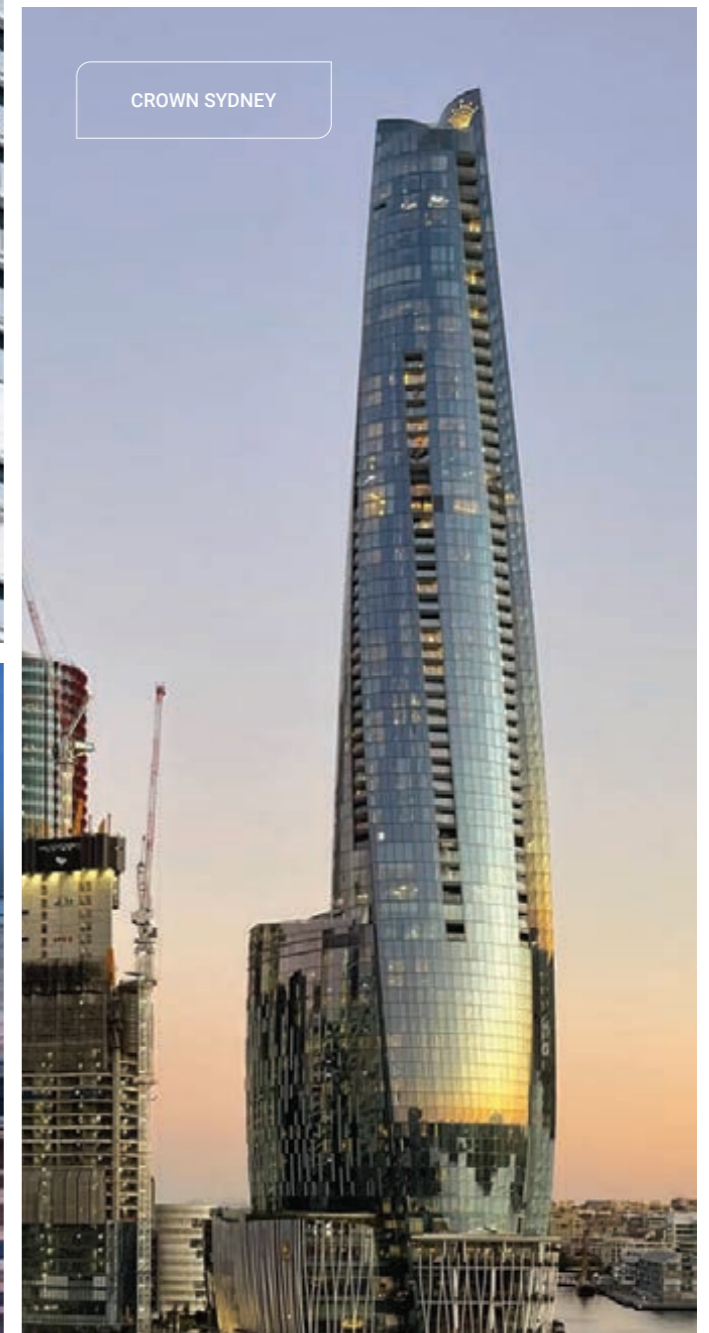
QUAY QUARTER TOWER



MANHATTAN LOFT GARDENS



OLYMPIA LONDON



CROWN SYDNEY



**One Sydney Harbour**

6000+ automated roller blinds and tension systems, all using Vestamatic SMI tubular drives 230V and Vestamatic RS485/ SMI Controls.

# SMI INSTALLATION WITH VASATEC

vasatec works collaboratively with architects, developers and planners on the development and implementation of smart and energy efficient shading solutions. The vasatec network of shading experts deliver all inclusive shading solutions to commercial projects, including the design, shading selection, automation, delivery, installation and commissioning.

## An international network of shading specialists for the contract & hospitality market

Focusing on the contract market, Vestamatic has delivered 10.000+ projects all around the world. The key success criteria in delivering contracts is the combination of the right shading product, the right contract dealer, and the right integration into a buildings technology. Vestamatic therefore created together with partners, an international network devoted to the sophisticated contract shading & lighting market. Together we operate under the registered trademark Vasatec – Contract Shading.

## Your ONE-stop contract shading provider

Design / Shading Supply / Automation and Control / Building Integration  
Installation and Operation / Support and Maintenance

1.000+

Projects delivered  
worldwide



Leading European  
shading manufacturers



Multiple control  
and automation  
options



Simplified shading  
connection to the  
IoT-world



Highly skilled and certified  
installation teams



Expanding network  
with new members/regions

60%

Less cabling and  
containment using  
digital drives

50%

Less installation time  
using plug-and-play  
options

vasatec<sup>®</sup>  
contract shading



Get in touch for more information and partnership opportunities.

[service@vasatec-contractshading.com](mailto:service@vasatec-contractshading.com) / [vasatec-contractshading.com](https://www.vasatec-contractshading.com)



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For further information about the SMI association, visit:  
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