

A photograph of two men in a server room. The man on the left is wearing a dark blue suit, a light blue shirt, and a patterned tie. He is holding a white document. The man on the right is wearing a white lab coat over a plaid shirt, safety glasses, and is holding a green pen. They are standing in front of an open server rack filled with various electronic components and cables. The background shows more server racks and a clean, industrial environment.

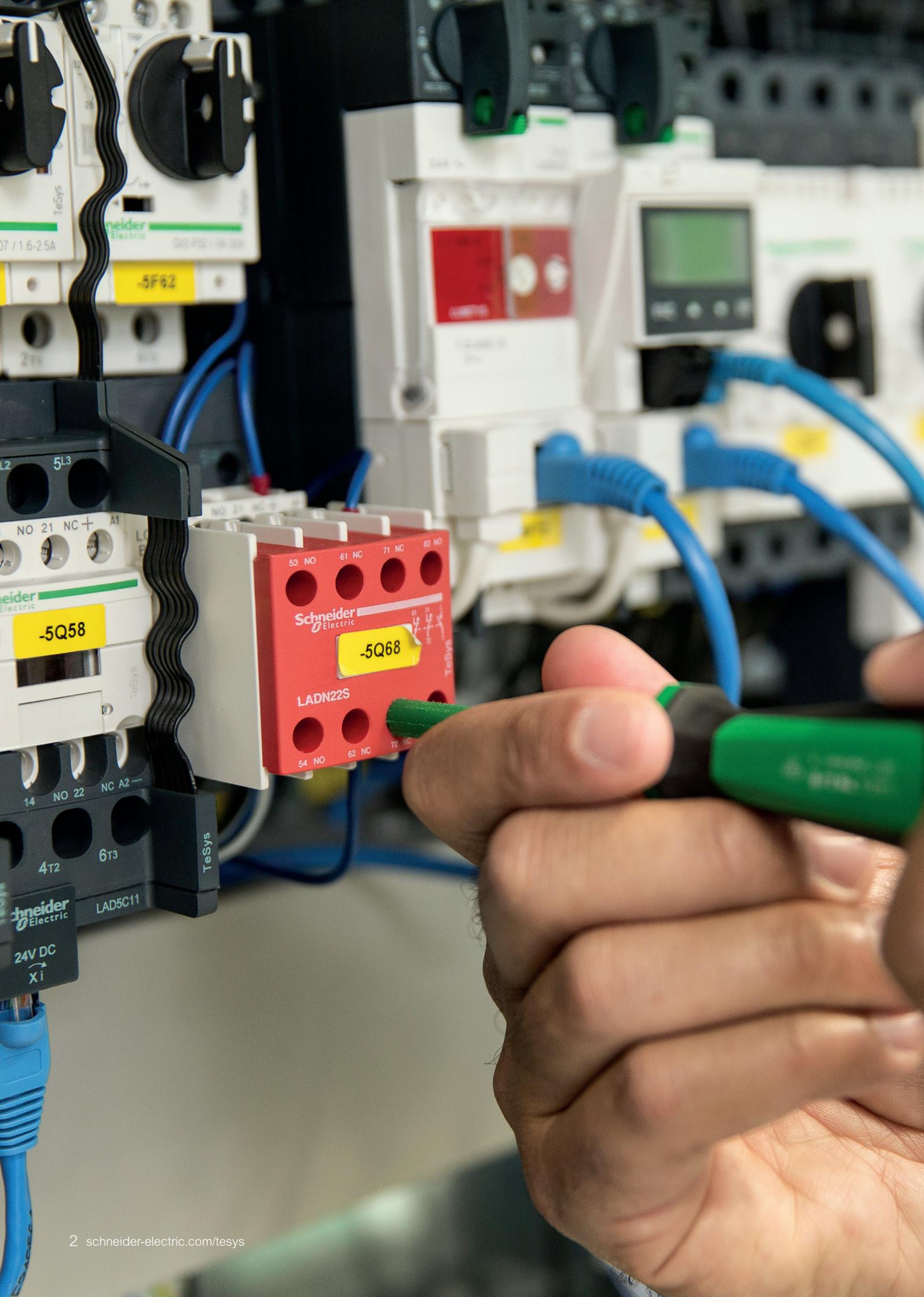
Start smart, run smart, stay smart with TeSys

Solutions that switch, protect,
control, and monitor motors

schneider-electric.com/tesys

Life Is On

Schneider
Electric



Start smart. Run smart.

TeSys motor controls

TeSys motor starters leverage 90 years of experience and innovation to protect, monitor, and control your motors. As a testament to that longevity, more than 330 million TeSys motor control units are utilized worldwide.

Wherever you are, we are too.

With a global presence in 135 countries, our certified products are designed in accordance with all major international standards. TeSys boasts 16 globally dispersed manufacturing facilities and 35 major logistics centers, delivered to a network of 16,000 partners. . .or directly to you!

Keep your motors running...

From 0.37 kW, 400 V/AC3 motor power to 900 kW.



Cabinet optimization.

Schneider Electric, the world's leading specialist in power distribution, control and automation technology, and innovative software design, offers 99% of the cabinet products you need to optimize your operations.

Save up to 30% in time, space, and money.



Fully IE4 Compliant



90+ years

of innovation in motor control.

TeSys range

Protecting

Circuit breakers

TeSys GV circuit breakers

Magnetic



GV2L



GV3L



GV4L

Thermal-magnetic



GV2ME



GV2P



GV3P



GV4P



GV5P



GV6P

Relays

Thermal protection



LR2K



LRD



LR9D



LR9F

Fuse



DF



LS1



All-in-one



TeSys U

Switching

Contactors

From 6A to 2750A



K



D



TeSys B Bar contactor

Low Consumption versions



K LC



D LC



D Green

Starters and Motor Starters



TeSys H
Ultra-compact starter



TeSys U



Integral 63

Vario



Fuse disconnecter GS





Managing

Motor Management Compact starter



TeSys U

For standard application



TeSys U

For high-end management



TeSys T



TeSys island



Combination

DOL starters with manual control



Vario



Mini Vario



GV2M



GV2P/3P

Starters



LE-up to
30kW/400V

For DOL starters and safety applications



LG, LJ



GV2M

TeSys Complementary Offer



Specific applications

For protection

Thermistor
Protection unit



LT3

Instantaneous
electronic
overcurrent relay



LR97D

Electromechanic
overcurrent relay



LT47

Transformers
and high
current peak



GV2RT

Single pole
magnetic over
current relay



RM1

Fuse solution



GK1

For control

For wind turbine
UPS panels



F

For very small
machines



SK

For capacitors



D

For modular enclosures / Din rail



3 poles-SKGC



GC



Dual Tariff GY



Impulse relay GF

Customizable solutions for all industries and applications

For all industry sectors:



Buildings



Industry



Infrastructures



Automotive



All Machines requiring:

- Direct On Line (DOL) starting
- Load breaking of the machine control circuit

For all types of applications:



Conveying



Gas



Hoisting



HVAC



Lifts



Oil



Packaging



Pumping



Textiles



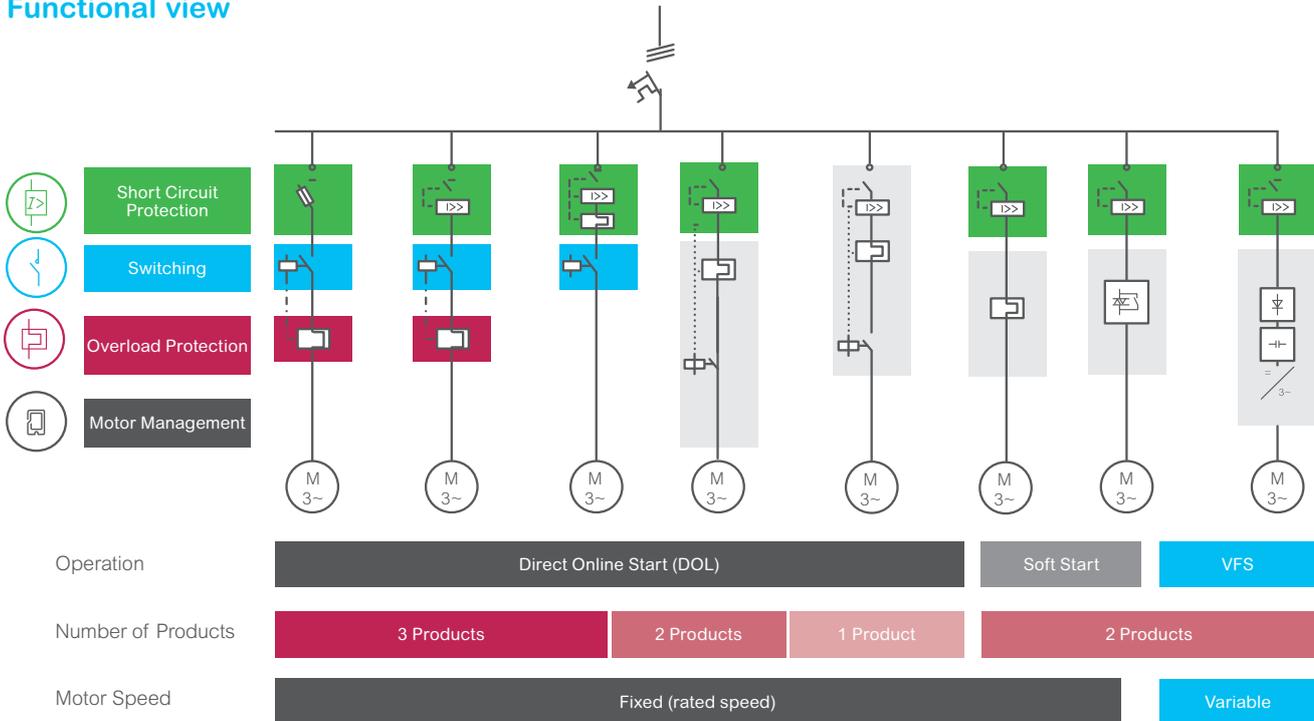
Water and Wastewater

Specific application products

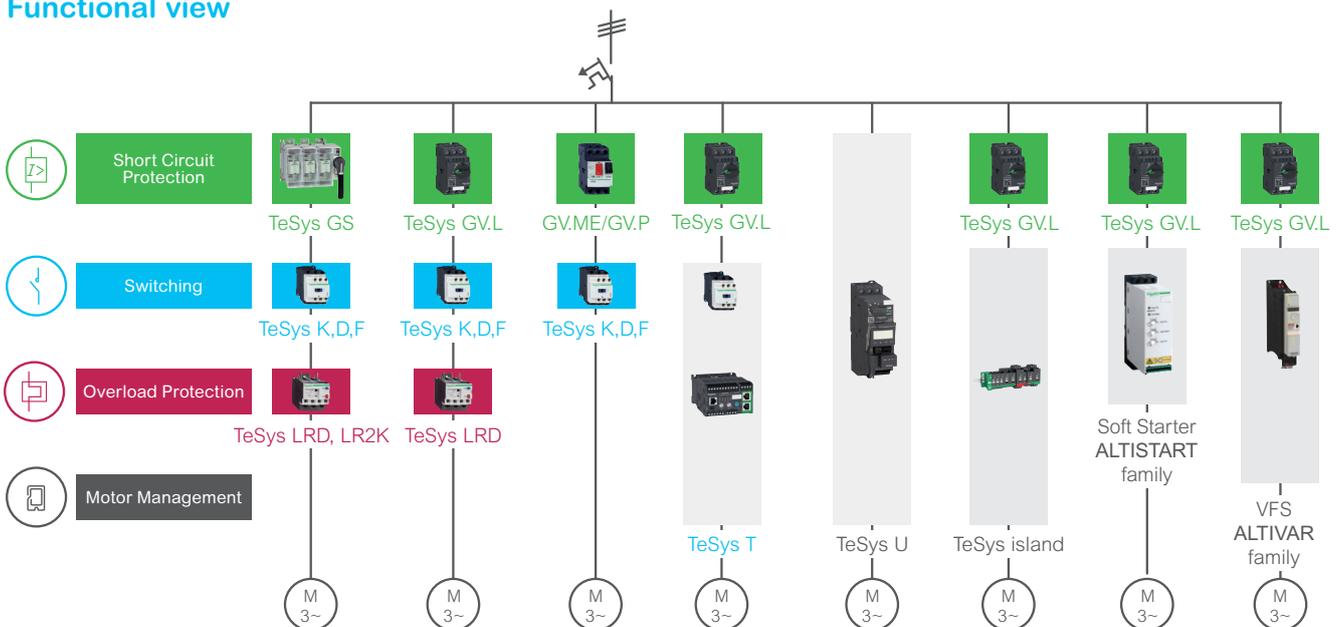
Schneider Electric is a global company that offers local and customized solutions. Whether it be for domestic use, railway, or nuclear application, we offer a wide range of on-demand offers. What's more, we can develop special offers to fit the demands of the market and specific customer needs.

How do you start a motor?

Functional view



Functional view



TeSys Protecting

Comprehensive protection against short circuits, overheating, overload, locked rotor, isolation, or abnormal temperature rises — on/off manual from 0.06 to 110 kW.

Thermal-magnetic

High-performance compact solutions that require less wiring time



Thermal-magnetic
2 in 1: overload and short circuit protection in one product

For more information consult TeSys catalog 2019 p. B6/1, A4/3

Magnetic

Magnetic default detection solutions



Magnetic
Short-circuit protection

For more information consult TeSys catalog 2019 p. B4/1, B5/1, B6/1, A4/3

Thermal

Enables reset (automatic, manual, and remote)
Thermal default signalling solutions



Thermal
Overload protection with auto-temperature compensation

For more information consult TeSys catalog 2019 p. B11/1

Complementary offer

Specialized solutions



TeSys: easy mounting
Screw fixing or clip-on mounting on DIN rail

For more information consult TeSys catalog 2019 p. B6/53, B6/17, B11/17, B11/19

TeSys Protecting

Thermal-magnetic



GV2ME



GV2P



U



Magnetic



GV2LE



GV2L



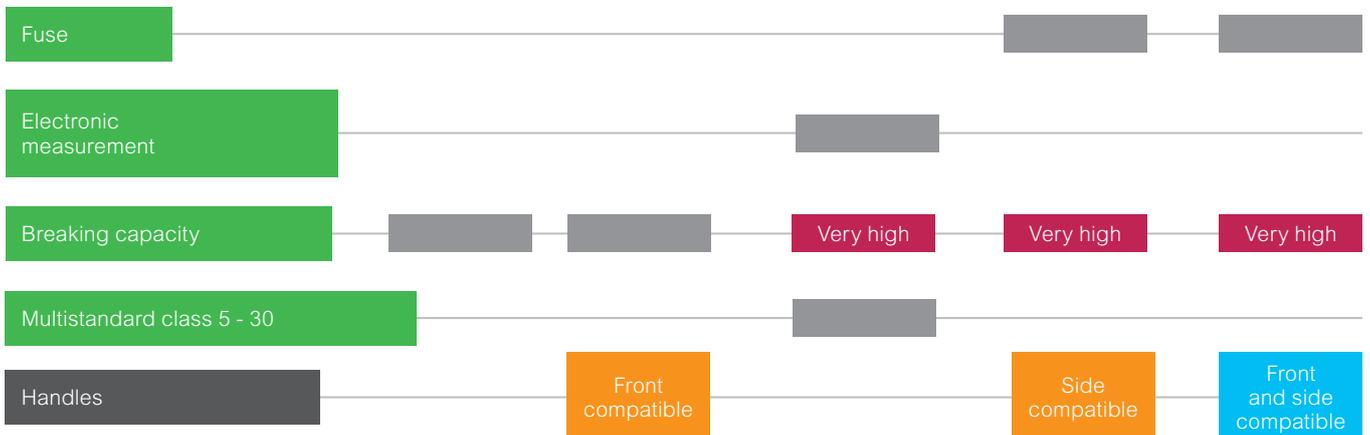
U



DF



GS



TeSys Protecting



Thermal-magnetic	GV2ME	GV2P	GV3P	GV4P	GV5P / GV6P	U
Range (kW - AC-3 400 V)	0.06 - 15	0.06 - 15	0.06 - 45	0 - 55	55 - 250	1.1 - 15
Setting range (A)	0 - 32	up to 32	up to 80	up to 115	150 - 500	0.15 - 32
Breaking capacity (Icu kA)	10 - 100	50	50 - 100	25 - 50 - 100	36 and 70	50
Class motor	10	10	10	10 and 20	5, 10, 20	5 - 30
Width (mm)	45	45	55	81	105 and 140	45
Sealable	yes	yes	yes	yes	yes	yes
Terminal	- Screw clamp - Spring - Lugs	- Screw clamp	- EverLink - Lugs	- EverLink - Lugs	- Screw clamp - Lugs	- Screw clamp
Electrical durability (AC3)	100,000	100,000	100,000	5,000	20,000, 10,000 and 6000, 4000	10,000
Remote rotary handle compatible	no	yes	yes	yes	no	yes
Product certifications	ATEX, BV, CCC, CSA, DNV-GL, EAC, EU, LROS, RINA, UL	ATEX, BV, CCC, CSA, DNV-GL, EAC, EU, EZU, LROS, PTB, RINA, TSE, UL	ATEX, BV, CCC, CSA, DNV-GL, EU, LROS, RINA, UL	ATEX, CCC, EAC, EU, JIS, UL	IEC, UL, CSA, EAC, DNV-GL	ASEFA, CSA, EU, UL

TeSys Protecting



Magnetic	GV2LE / GV2L	GV3L	GV4L	U	DF	GS
Applications	Specialist machinery	Industry, Infrastructure, Buildings	Oil & Gas, Waste-water treatment facilities, Mining, Energy	Motor Starter in machines and control panels	Industry, Infrastructure, Building	Industry, Infrastructure, Building
Range (kW - AC3 400 V)	up to 15	11 - 45	0 - 55	1.1 - 15	-	-
Setting Range	0.4 - 32	25 - 80	2 - 115	0.6 - 32	0.5 - 125	32 - 1250
Breaking capacity (Icu kA 400 V)	15 (GV2LE) 50 (GV2L)	50, 100	100	50	Icc = 20 or 120 kA	Icc = 50 or 100 kA
Class motor / fuse type	10	10	10, 20	5, 30	NFC, CC fuse	A1 to D1, CC, J, UL fuse
Protection function	Short circuit	Short circuit	Pre-alarmed, long start, jam, ground fault	Overload, short circuit, isolation, over current	Short circuit	Overload, short circuit, double breaking
Width (mm)	45	55	81	45	17.5	195
Terminal	Screw clamp	Lugs, Everlink	Lugs Everlink	Screw clamp	Faston	Shroud, faston
Electrical durability	100,000	50,000	5,000	10,000	-	Up to 1500 / 300
Product certifications	BV, CCC, CSA, EU, RINA (GV2L: DNV-GL, LROS)	EU	ATEX, CCC, EAC, EU, JIS, UL	ASEFA, CSA, EU, UL	EU, UL, CSA, RoHS	EU, ASEFA / LOVAG, LROS

TeSys Protecting



Thermal	Electromechanical LR2K	Electromechanical LRD			Electronic LR9D			LR9F	
Compatible contactor	TeSys K	TeSys D	TeSys D	TeSys D	TeSys D	Separate mounting only – TeSys D	TeSys D	TeSys F	
Width (mm)	45	45	55	87	45	65	70, 85, 120	164	
Setting range (A)	6 - 16	9 - 38	40 - 80	80 - 95, 115 - 150	0.1 - 38	40 - 65	115 - 150	115 - 630	
Relay setting range (A)	LR2K	LRD	LRD3		LR9D			LR9F	
	0.11 - 16	0.1 - 38	40 - 80	80 - 95	115 - 150	0.1 - 38	22 - 110	60 - 150	30 - 630
Range (kW - AC3 400 V)	0.06 - 5.5	0.37 - 75			18.5 - 315			90 - 315	
Number of references	14	15	7	8	6	4	1	2	4
Class motor	10 A	10 A, 20			5 - 30			10, 20	
Unbalanced load	3 phase or balanced loads	Dedicated range for unbalanced loads			Selector for balanced / unbalanced load			Selector for balanced / unbalanced load	
Terminal	Screw clamp	EverLink (LRD3) Spring Screw clamp Lugs			Screw clamp			Screw clamp	
Product certifications	CSA, EU, UL	ATEX INERIS, BV, CCC, CSA, DNV-GL, EU, RINA, LROS, UL			CSA, EU, UL			CSA, EU, UL	

TeSys Protecting



Complementary offer	LT3	LR97D	LT47	GB2	GV2RT
Applications	PTC thermistor probes use	(Machine protection) instantaneous electronic overcurrent relay (jam)	(Machine protection) electronic overcurrent relay (jam)	Protect and isolate control circuits	Transformers and high current peak
Setting range (A)	800	0.3 - 38	0.5 - 60	0.5 - 20	0.25 - 23
Width (mm)	22.5	45	71	15 (1P) 30 (2P)	45
Electrical durability	-	-	-	8000	100,000
Protection functions	Overload, rise in ambient temperature, ventilation circuit fault, high starting frequency, mechanical shocks	Overcurrent due to overload or mechanical jamming, phase failure, locked rotor, torque surge, long start, mechanical shock		Protection & isolation	Motor with high current peak start protection
Integrated auxiliary contacts	1NO + 1NC	1 C / O	1NC + NO	-	-
Terminal	Screw clamp	Screw clamp Lugs	Lugs	Screw clamp	Screw clamp
Product certifications	EU, LROS	CSA, EU, UL	CSA, EU, UL	CSA, EU, NEMKO, UL	CCC, CSA, EAC, EU, LROS, UL

TeSys Switching

Discover a full range of switching devices for all your applications, from 2 to 900 kW.

Motor starter application

Contactor range from 6 A to 2750 A



K

D

F

B

For more information consult TeSys catalog 2019

p. B8/41 p. B8/2, B8/3, B8/8 p. B9/2, B9/3 p. B10/1, B10/16, B10/17, B10/18

Starters and motor starter ranges



H

U

Integral 63

p. A3/2 – A3/16 p. A4/10 p. A5/1

Superior safety for all industries

TeSys motor controls come with all the isolation, protection, and emergency handling you need to comply with international standards.

All TeSys contactors are mechanically linked and equipped with mirror contacts for safety applications — to ensure reliable auxiliary contact.

TeSys contactor PLC direct compatibility

Contactor

Electromechanical

Electronic coil

6 - 12 A

9 - 38 A

38 - 80 A



LC



LC



K

D

D green

For more information consult TeSys catalog 2019

p. B8/42 p. B8/3 p. B8/9

Motor starter and starter

0.1 - 6.5 A

0.16 - 32 A



H



U

p. A3/2 – A3/16

p. A4/10

TeSys Switching

Discover a full range of switching devices for all your applications, from 2 to 1000 kW.

Complementary offer

Modular enclosures / din rail / lighting circuits



3 poles-SKGC

GC

GY

GF

For more information consult TeSys catalog 2019

p. B8/54

p. B8/56

p. B8/57

p. B8/58

Very small machines



SK

For more information consult TeSys catalog 2019

p. B8/39

Wind turbine UPS panels



F

For more information consult TeSys catalog 2019

p. B9/3

For capacitors

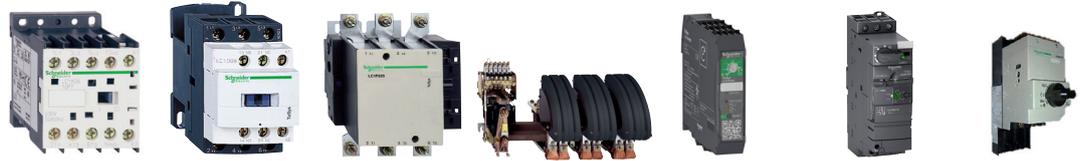


D

For more information consult TeSys catalog 2019

p. B8/21

TeSys Switching



Motor starter application	K	D	F	B	H	U	Integral 63
Range (A)	6 - 16	9 - 150	115 - 2600	80 - 2750	0 - 6.5	0.15 - 32	Up to 63
Electrical durability (A AC3)	1 300 000	2 000 000	900 000 up to 400 A	10 000 000	30 000 000	2 100 000	1 200 000
Width (mm)	45	45 - 55 - 110	163.5	Variable 225 - 1065	22.5	45	90
Safety	Certified mirror contacts	Certified mirror contacts	-	-	Certified SIL3 PLe STO	Certified mirror contacts	-
Terminal	Screw clamp Spring Faston Pin for PCB	EverLink Screw clamp Spring Faston Lugs	Lugs	Lugs	Spring	Screw clamp	Screw clamp
Integrated auxiliary contacts	1 NO or 1 NC	1 NO & 1 NC	1 NO & 1 NC	Variable up to 6NO or NC	1 default signalling contact (NO or NC)	1 NO & 1 NC	-
Product certifications	CCC, CSA, EU, UL	BV, CCC, CSA, DNVGL, EU, RINA, LROS, UL	CCC, CSA, EU, UL	EAC, EU	EU, UL	ASEFA, CSA, EU, UL	BV, CSA, DNVGL, EU, LROS, RINA, SETI, UL
Additional information	AC/DC, silent versions, low consumption			Configurable for special use, control of all types of motors in normal or severe service conditions	Safe Torque off ultra-compact motor starter until 3 kW	Ultra compact motor starter until 15 kW	
Direct compatibility with PLC	Yes	Yes (D green)	Yes (ECM module)	No	No	Yes	No

- Also available: **Reversing** contactors, **Star delta** contactors, **Circuit Breaker + Contactor pre-assembled**
- K and D also available for **Railway & Electrodomeestic** applications
- D, U, H also available in red cover version for **Safety chain integration**

TeSys Switching



Complementary Offer	SKGC	GC/GY	GF	SK	F	D
Applications	Modular enclosures / Din rail			Very small machine	Wind turbine, UPS panels	For capacitors banks
		Command the switch ON/OFF				
Range (A)	0 - 6	16 - 100	0 - 16	0 - 6	1250 - 2600	9 - 150
Electrical durability	500 000 - 1 000 000	100 000	100 000	1 000 000	15 000 - 50 000	300 000 12.5 - 60 kVar
Width (mm)	27 (SKGC2) 45 (SKGC3 et SKGC4)	35	18	27	309 - 519	45
Integrated aux. contacts	up to 1 NO or 1 NC	-	{1 or 2 NO} or 1 {NO & NC}	-	-	1 NO & 1 NC
Products certifications	CSA, EU, UL	EU, NF-USE, (GC: VDE, CEBEC, ÖVE)	ASE, CEBEC, D, EU, FI, KEMA, N, NF-USE, S, VDE	CSA, EU, UL	BV, CSA, EU, RINA	CSA, EU, UL
Additional information	Transparent glass for domestic purposes	IEC 61095	IEC 61095: domestic and similar use IEC60669-2: impulse relay	Compact Arc suppressor AC or DC coils Makes it possible to automatically split operation between two circuits of a redundant system	Suitable for AC1 applications Flexible, compatible components for easy installation and maximum continuity of service Ultra-compact, high performance	4 sizes 7 ratings Compact size for space efficiency

Switches

A range of safety control products that are simple to use/set up, and compact ergonomic products that meet the requirements for starting and stopping motors.



Products	Vario	GS*
Application	Switch disconnecter – (category AC-3, DC-3, UL/CSA 60947-4-1) Cuts off electrical power at full load	Switch disconnecter with fuse Ensures power cut off and shut down, secure load disconnection, protection against circuit overcurrent
Current range (A)	12 - 175	32 - 1250
Width (mm)	55	96 up to 562
Versions of handles	Enclosed version available (see page 10), NEMA offers	Mounting plate/front, right and left handle, direct or extended, Okken/Blokset, DIN and NFC fuse type (cf. picture above)
Padlock compatibility	Up to 3 padlocks	Up to 3 padlocks (in open position)
Auxiliary contacts	ON/OFF, early break	Up to 12 auxiliary contacts N/C and reverse N/O contacts Early Break, blown fuse, « O » and « I » position status configurable signaling auxiliary contacts
Additional information	Door mounting or DIN rail mounting	High level of safety thanks to double breaking. Double isolation upstream / downstream anti-electrocution.
Product certifications	CCC, CSA, EU, GL, UL	ASEFA/LOVAG, EU, LROS, UL
Fuse format	-	BS, CC, DIN, J, NFC
Connection terminals	Screw clamp	Lugs, shroud
Number of poles	Up to 6	3 or 4
Key features	<p>Mini vario: for standard applications</p> <p>Safety function: degree of protection (IP55 & IP65)</p> <p>The Vario series terminals are reversible and use the same « 3-poles » body for both enclosure door and bottom ensuring minimal stock requirements.</p> <p>NEMA</p>	<p>Product IP20</p> <p>Handle: IP55 or IP65</p> <p>Power (up to 1250 A)</p> <p>Fuse compatibility (all standards)</p> <p>Double switching Wide range of handles</p> <p>High ICC accepted (\geqMCB) = 100 kA for all sizes</p> <p>High protection thanks to fuse speed</p> <p>A complete range and accessories</p> <p>Test mode</p> <p>NEMA</p>

TeSys Managing

Discover a full range of motor management devices for all your applications, from 2 to 1000 kW.



Motor management	TeSys U	TeSys T	TeSys Island
Range (kW - AC3 400 V)	1,1 - 15	400	37
Setting Range (A)	0 - 32	Up to 810	80
Width (mm)	45	91	-
Class motor	5 - 30	5 - 30	5 - 30
Functions	Measurement, statistics, historic, communication (LUCM)	Measurement, statistics, historic, communication, diagnostics	Digitized load management, communication, predictive maintenance, cybersecurity
Protection functions	Short circuit protection, thermal overload, detection of crusher blockage	Thermal overload, phase imbalance and failure, phase reversal, earth faults, long starting and motor stalling, load fluctuations, variations of power factors, load shedding, and restarting	Upstream voltage presence detection, electronic thermal overload protection, current monitoring, control of third party power devices when associated with a TPRDG I/O
Aux. contacts	1NO + 1NC	-	-
Product certifications	ASEFA, CSA, EU, UL	ABS, ATEX, BV, C-Tick, CCC, CSA, DNV-GL, EAC, EU, KERI, LROS, NOM, RINA, UL	UL, CSA, CCC, EAC, RCM

For more information consult TeSys catalog 2019

p. B12/2

p. B12/4

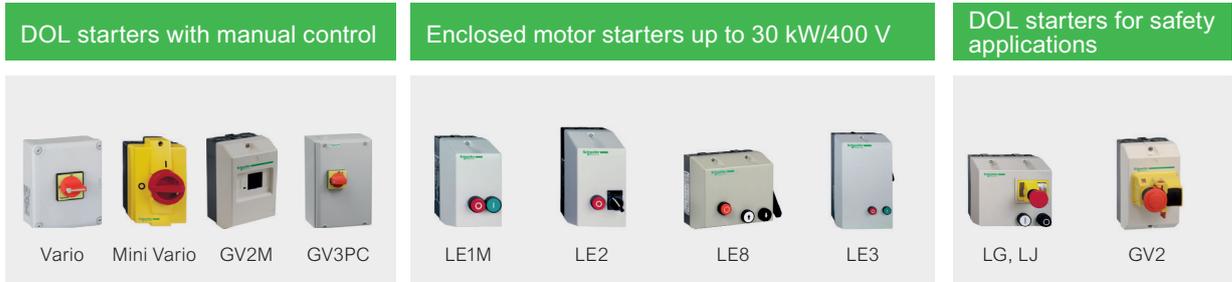


Integration with intelligent Motor Control Center applications, for:

- Pumping, ventilation, filtering
- Compressors, mixers, crushers, conveyor systems

Enclosed

TeSys enclosed starters are ready to install and ready to use.



Products	Vario & Mini Vario	GV2M	GV2P/3P	LE1M	LE1/2	LE4/8	LE3/6	LG, LJ	GV2M
Range	Mini: up to 32 A Vario: 10 - 175 A	up to 11 kW/400 V	up to 30 kW/400 V	0,2 to 7,5 kW	4 to 30 kW	2,2 to 15 kW	7,5 to 30 kW	up to 9 kW/400 V	up to 11 kW/400 V
Padlock compatibility	Rotary handle		Rotary handle						
Functions	Local isolation / disconnection for maintenance	Protection from short circuits, protection from overloads, local manual control, emergency stop (special version).		D.O.L motor starter, non-reversing / reversing. Protection from overloads (thermal relay to be ordered separately except LE1M) Local control			Star-Delta motor starter. Protection from overloads (thermal relay to be ordered separately) Local control	Protection from short circuits and overloads, voltage drops (depending on the model, under voltage release unit to be ordered separately), Emergency stop, Local manual control, Disconnection locking	Protection from short circuits, protection from overloads, local manual control, emergency stop (special version), disconnection locking
Width (mm)	82,5 (mini vario) 241 (vario)	93	88/200	78	88/175/200	175/186	186	175	93
Additional information	3-pole rotary control switch disconnector Available in open or enclosed version IP65 degree of protection NEMA type Near the motor	IP41, IP55 or IP65 Circuit breaker to be ordered separately	Circuit breaker to be ordered separately	IP65 Ready for use Overload protection included without fuse	IP65 Overload protection to be ordered separately Without fuse disconnecter	IP65 Overload protection to be ordered separately With fuse disconnecter	IP65 Overload protection to be ordered separately With/ without fuse disconnecter	IP55	Circuit breaker to be ordered separately
Product certifications	CSA, EU, RoHS, UL	CSA, EU, RoHS	EU, RoHS	EU, RoHS	EU, RoHS	EU, RoHS	EU, RoHS	EU, RoHS	EU, RoHS

p.A1/2

p.A1/7

p.A1/9

p.A1/10 to A1/18

p.A1/22 to A1/29

p.A1/8

For more information consult TeSys catalog 2019

Quick selector tool available at: www.schneider-electric.com/tesys or at http://www.schneider-electric.com/en/download/document/EMS_solution_guide/

Accessories

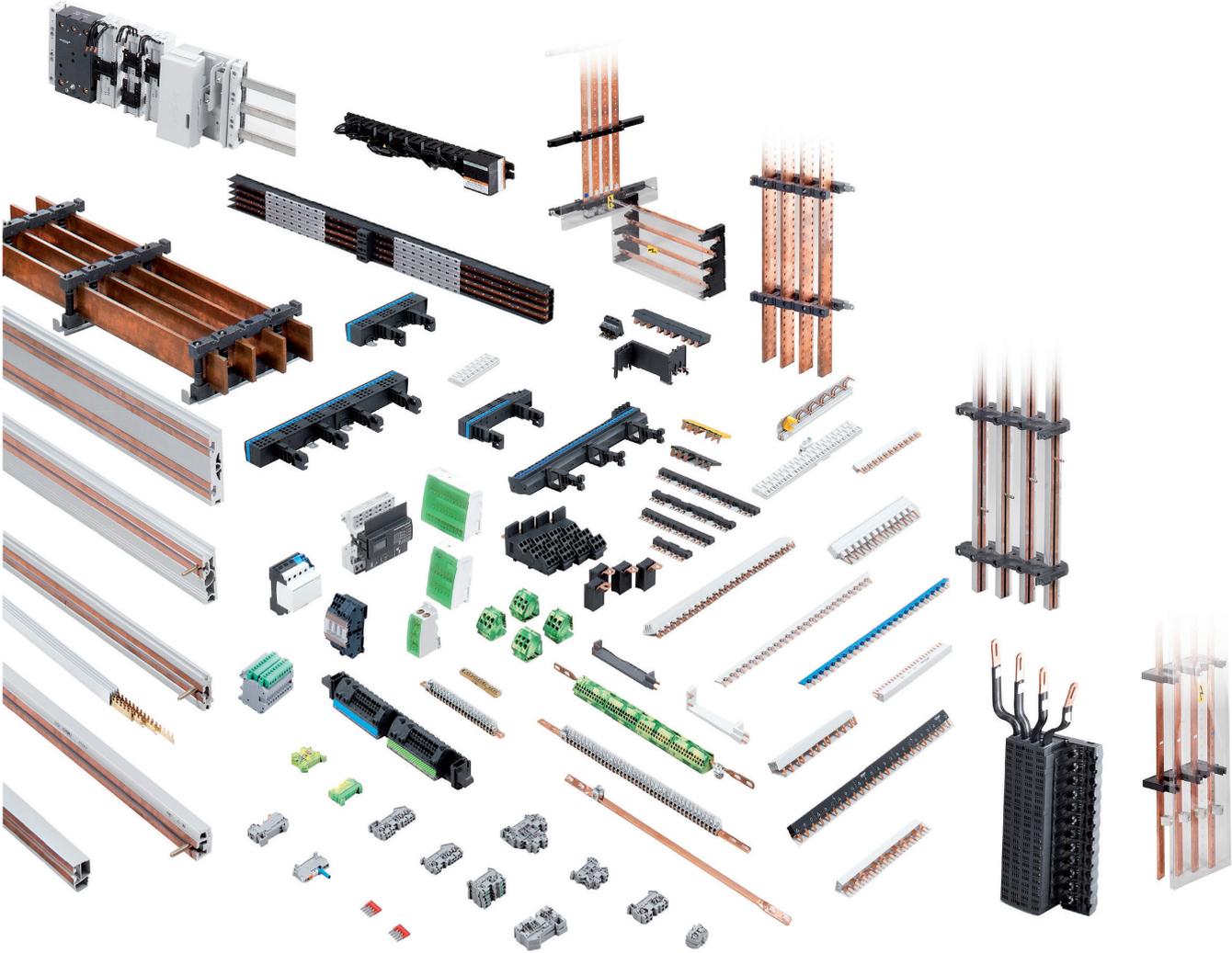
Linery: our accessories range

Linery BZ enables a reliable and flexible installation for TeSys and compact devices.
Linery HF and Linery FT enable a quick, simple, and reliable installation.

Think Linery

Complete range

 Flexible  Secure  Reliable



Linery Power Busbars

Horizontal/Vertical Installation	iPxxB	Vertical installation	Horizontal/Vertical Installation	ICE/UL
				
4000 A	630 A	3200 A	4000 A	630 A
Linery BS	Linery BW	Linery LGY	Linery LGYE	Linery BZ

Linery Distribution Blocks

Screw connection	Quick connection	Quick connection	Screw connection
			
250 A	160 A	250 A	630 A
Linery DS	Linery DX	Linery DP	Linery BS

Linery Device Feeders

Horizontal installation	Modular horizontal installation	Vertical installation	For Compact	For TeSys
				
200 A	100 A	80 A	800 A	63 A
Linery FM	Linery FH	Linery FV	Linery FC	Linery FT

Linery Terminal Blocks and Bars

Quick/screw connection		ICE/UL		
				
2.5-16 mm ²	TRR Spring terminal	TRV Screw terminal	TRP Push-in terminal	
Linery TB		Linery TR		Linery TA

Linery "Hot Plug" Distribution

IEC/UL	
	
160 A	250 A
Linery HK	Linery ISO

Further reading



TeSys 2019 catalog

Document reference:
MKTED210011EN



TeSys D and K railway S207

Document reference :
LVCATRAIL_EN



TeSys D and K electrodomestic S335

Document reference :
LVCATRAIL_EN



Enclosed catalog

Document reference :
EDCED114012EN



Red cover Safety chain

Document reference:
998-1243702_GMA-GB



Multistandard protection 2019 Catalog

Document reference:
ZZ5918



Linergy catalog

Document reference:
EDCED112025EN



TeSys T management system

Document reference: 998-1270416_GMA-GB,
EDCED115068EN



TeSys is ready for IE3 motors

Document reference:
998-1270173_GMA-GB



Our range of brochures and catalogs

For local documentation, please visit:
schneider-electric.com/tesys

Document reference:
EDCED115029EN
EDCED112018EN
998-19582259_GMA-GB
998-1243702_GMA-GB
998-19107104_GMA-GB

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