

TeSys
Innovative
and intuitive
solutions
to protect,
monitor
and control

The TeSys range is
suitable for motor and
power applications.

TeSys offers all the
best in class features
you need for
protection, safety,
monitoring and
control.

TeSys provides you all
kind of solutions from
the most universal to
the most advanced.
Wherever you are in
the world and
whichever TeSys
products you choose,
you will get the
reliability, standards-
compatibility and ease
of ordering and
installing.

Flexible
Safety M
Smart Connected
Protection Compliant
Energy efficiency
Reliable Available
Let TeSys®
be your drive

TeSys range: TeSys GV, TeSys GK, TeSys GS, TeSys DF, TeSys K, TeSys D, TeSys F, TeSys B, TeSys LR, TeSys LT, TeSys T, TeSys Vario, TeSys U, TeSys LE, TeSys LG.

TeSys an innovative and intuitive solutions to:

A wide range of protection products

- > The right response for the applications you need
- > A solution for each electrical function

Make installation easier

- > Choose the right product easily
- > Intuitive installation



Enclosed starters applications:

- > Fans, blowers, ventilators
- > Pumps: water pumps, heat pumps, etc.
- > Compressors
- > Elevators
- > Automatic gates, roof window openers
- > Conveyors



To discover the TeSys range, go to:
www.schneider-electric.com/tesys



To download TeSys Enclosed Motor Starter Solution Guide



Make the most of your energy™

www.schneider-electric.com


Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
F- 92506 Rueil Malmaison Cedex
France

RCS Nanterre 954 503 439
Capital social 896 313 776 €
www.schneider-electric.com

*As standards, specifications and designs change
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TeSys Enclosed Starters

Let TeSys ensure safety
in your simple motor
applications





TeSys GV



Installation diagram

Near the motor.



Characteristics

- > Manual Direct On Line starters
- > IP41 or IP55 degree of protection.

Functions

- > Protection from short circuits
- > Protection from overloads
- > Local manual control
- > Emergency stop switch (special version)

Thermal-magnetic circuit breakers

Motor power AC-3 400 V kW	Maximum motor current I _{e max} A	References
0.06	0.25	GV2ME02
0.09	0.4	GV2ME03
0.12	0.63	GV2ME04
0.18	0.63	GV2ME04
0.25	1	GV2ME05
0.37	1.6	GV2ME06
0.55	1.6	GV2ME06
0.75	2.5	GV2ME07
1.1	4	GV2ME08
1.5	4	GV2ME08
2.2	6.3	GV2ME10
3	9	GV2ME14
4	9	GV2ME14
5.5	13	GV2ME16
7.5	17	GV2ME20
9	21	GV2ME21
11	23	GV2ME22

Enclosures

Degree of protection	Mushroom head Emergency Stop	References
IP41	without	GV2MC01
IP55	without	GV2MC02
	with - turn to release, padlockable	GV2MCK04
IP55 < +5°C	without	GV2MC03

Add-on blocks*

Description	Mounting	Type of contacts	References
Instantaneous auxiliary contacts	front	N/O or N/C	GVAE1
		N/O + N/C	GVAE11
	left side	N/O + N/O	GVAE20
		N/O + N/C	GVAN11
Fault signaling contact + instantaneous auxiliary contact	left side	N/O + N/O	GVAN20
		N/O (fault) + N/O	GVAD1010
		N/O (fault) + N/C	GVAD1001
		N/C (fault) + N/O	GVAD0110
Short-circuit signalling contact	left side	N/C (fault) + N/C	GVAD0101
		C/O common point	GVAM11
Description	Mounting	Voltage	References
Undervoltage trips	right side	380...415 V 50 Hz	GVAX385
		60 Hz	GVAX386

*Possible number of add-on blocks: 1 on the left side, 1 on the right side, 1 on the front



Circuit breaker to be ordered separately

Motor starters

TeSys LE



Characteristics

- > Direct On Line starters
- > IP65 degree of protection

Functions

- > Protection from overloads
- > Local control

Enclosed starters

Motor power AC-3 400V kW	Maximum motor current I _{e max} A	References*
0.25	0.8	LE1M35••05
0.37	1.2	LE1M35••06
0.55	1.8	LE1M35••07
0.75	2.6	LE1M35••08
1.1	3.7	LE1M35••10
1.5	3.7	LE1M35••10
2.2	5.5	LE1M35••12
3	8	LE1M35••14
4	11.5	LE1M35••16
5.5	14	LE1M35••21
7.5	16	LE1M35••22

*to be completed by adding the control circuit voltage code

Dots must be replaced by the voltage code:

Control circuit voltages										
Volts ~ 50/60 Hz	24	110	220	230	240	380	400	415	440	
Voltage code	B7	F7	M7	P7	U7	Q7	V7	N7	R7	



Installation diagram

Near the motor, not very far from the main electrical switchboard.



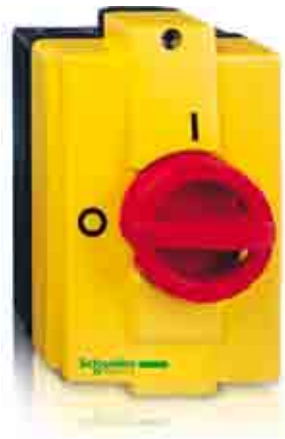
Check for the presence of short-circuit protection in the main electrical switchboard.

Reliable
Available Compliant
Easy to select





TeSys Vario



Characteristics

- > 3-pole switch disconnectors
- > IP55 degree of protection

Functions

- > Local isolation/disconnection, for maintenance
- > Padlockable rotary handle



Installation diagram

Near the motor.



Enclosed switch disconnectors

Thermal current I _{the} A	Power AC-23 400 V kW	References
10	4	VCFN12GE
16	5.5	VCFN20GE
20	7.5	VCFN25GE
25	11	VCFN32GE
32	15	VCFN40GE



The motor control and protection devices are located in the main electrical switchboard.

● Cross section of copper conductors (mm²)

Three-phase 400 V, p.f. 0.8, voltage drop < 5%

Power kW	Current A	Cable length (m)											
		< 50	< 60	< 70	< 80	< 90	< 100	< 120	< 140	< 160	< 180	< 200	
< 1.5	3.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.2	4.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5
3	6.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5
4	8.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4	4
5.5	11.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4
7.5	15.5	1.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	6
9	18	1.5	2.5	2.5	2.5	4	4	4	4	6	6	6	6
11	22	2.5	2.5	4	4	4	4	4	6	6	6	10	10
15	29	4	4	4	4	6	6	6	6	10	10	10	10