

# The most reliable low voltage solution for your resistive applications

New TeSys F AC1 ultra-compact, high-quality contactors make all the difference



Wind



Data Centre



Light Distribution

**Schneider**  
Electric™



TeSys F AC1 contactors and  
Masterpact NW circuit breakers  
guarantee electrical coordination

# TeSys F AC1

Perfect for compact, cost-effective and high-quality installations

## 70 kW

The average yearly increase of wind turbine power output



The most robust and reliable solution: Masterpact NW + TeSys F AC1



To keep pace with change, manufacturers need low voltage contactors that are smaller, safer, and more reliable than ever. Today's demanding AC1 resistive applications are under constant technological evolution. New wind turbine designs can deliver ever greater outputs in dynamic environments. Low voltage components must be versatile enough to operate reliably and safely, often while performing multiple operations per day, throughout their lifetime of service. Plus, manufacturers designing for resistive AC1 environments must incorporate component systems that are easily upgraded or adapted to meet changing requirements.

### A comprehensive offer

The TeSys™ F AC1 is the perfect contactor for these resistive applications. It provides the functionality, reliability, ease-of-use, and versatility you need, in a highly compact, low voltage contactor. Its premium quality, high-performance design gives manufacturers and panel builders the size, switchboard cost, technology, and design advantages needed to assemble world-class electrical generation and distribution systems. The combination of Masterpact™ NW circuit breakers and TeSys F AC1 contactors provides the most robust and reliable low voltage solution for wind turbines, and for any other resistive application.



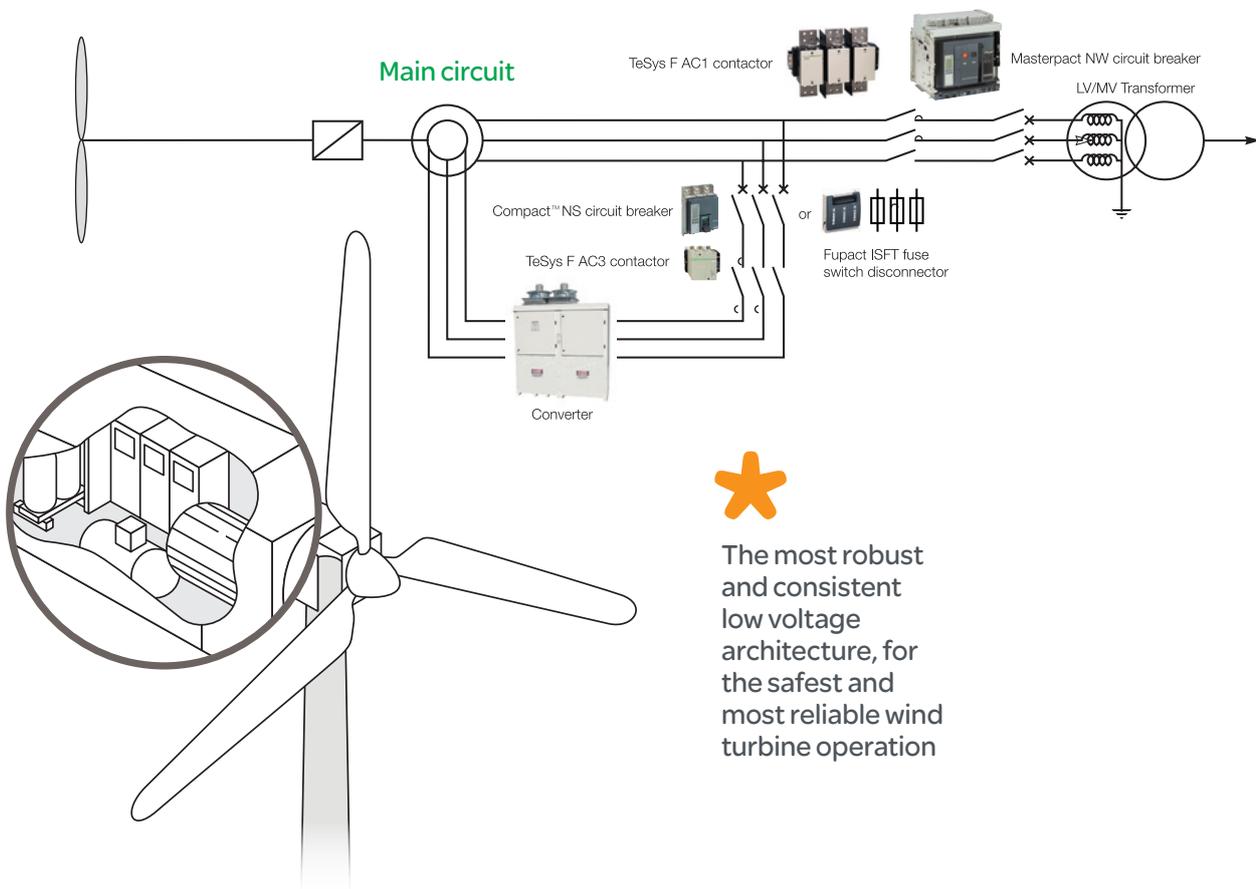
Guaranteed electrical coordination

# The most complete low voltage offer

The entire low voltage electrical offer and services from Schneider Electric™ for AC1 applications is now available, supported, and guaranteed from Schneider Electric. All of our products are fully covered by the manufacturer warranty. Unlike other manufacturers, our low voltage system guarantees complete electrical coordination, as well as electrical, mechanical, and communication compatibility for the entire lifespan of the installation.



TeSys F AC1 contactors and Masterpact NW circuit breakers provide guaranteed electrical coordination



The most robust and consistent low voltage architecture, for the safest and most reliable wind turbine operation

# Safest operation guaranteed



Best choice for wind turbine application, UPS panels, and any other resistive applications

Fully tested, approved, and certified by international bodies for complete safety and high reliability

Fully tested, approved, and certified by national and international bodies, the TeSys F AC1 guarantees that your installation is compliant with all safety standards and demonstrates to your customers you only use industry approved materials and best practices.

Certifications IEC, CCC, cETLus, cCSAus



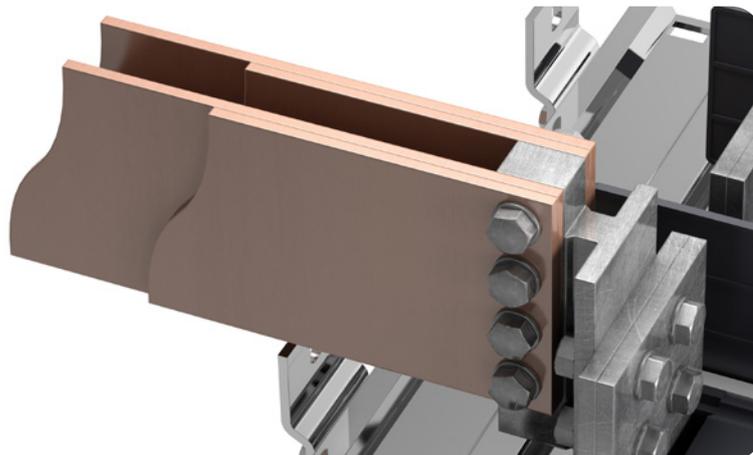
The combination of TeSys F AC1 contactors and Masterpact NW circuit breakers or fuses offer guarantees electrical coordination. It is the safest and most reliable low voltage solution for wind turbines and any other resistive applications

## Long-term tightening quality

The TeSys F series contactor includes heavy duty tightening torque for reliable tightening and safe, secure connections, even when using a variety of high current copper busbars or cables. No need for repetitive maintenance due to wire creep or concern about loose wiring, even in the most demanding conditions. Tightening pressure applied to the cables remains stable, strong, and long lasting even under the most demanding conditions.

100%

Guaranteed service continuity



# Ultra-compact, high performance

Minimize your footprint; maximize your performance

**50%**

Reduction in product size

The TeSys F AC1 helps you minimize any size and weight constraints without compromising reliability, performance, or service continuity. Its small footprint – the smallest in the industry – means you can design substantially smaller panels or easily replace any other contactor in use, no matter the AC1 application, for instance, in the nacelle of a wind turbine, in the panel of a UPS, and so on.

Its compact size makes your planning, design, and installation that much easier. And, because it's easy to mount and install, it is cost competitive during upgrades as well.



Smallest contactor on the market today



Size reduced by 50 percent  
performance increase



# Easy to install; simple to use

Flexible, compatible components for easy installations and maximum continuity of service



The TeSys F AC1 simplifies design and installation, giving you the right component with the right technical specifications for your application. Maintenance is easy, thanks to simple removal of the coil, and its high reliability reduces the number of long trips to the top of the wind turbine for scheduled maintenance. Plus, as new installation standards emerge or as your requirements are modified, the TeSys F AC1 range can easily adapt to meet your needs. It is capable of providing control for a wide variety of applications between 1260A to 2100A up to 1000V, using the same accessories and coils – including the interface 24V/100mA for PLCs – as our TeSys F and D offers.

# Comprehensive support; competitive advantage

Schneider Electric: world-renowned support and services

Efficiency isn't only doing more with less. It's also the end result of working with an experienced supplier with world-renowned services and support. As fast project implementation and regulatory pressures intensify, we can help you save time and money by deploying efficient project management and ensuring reliability with high-quality, innovative low voltage, products as well as adding value via specialist consultancy and design teams.

We offer the benefits of a global player: competitive cost and comprehensive pre- and post-sales support, all provided by a sales, service, and engineering network that is recognized worldwide for trendsetting low voltage solutions. We have the ability to source and deploy the expertise you need, for complete and reliable solutions for entire low voltage networks.

**14%**

Percentage of a wind turbine's cost dedicated to its electrical and control system



**10%**

Annual growth of wind turbine market per year until at least 2015

## General technical information

TeSys F AC1		LC1F1250	LC1F1400	LC1F1700	LC1F2100
Rated operational current (A)	IEC	1260	1400	1700	2100
	UL / CSA	1210			
Ie max. AC1	40°C	IEC	1400	1700	2100
		UL / CSA			
	60°C	IEC	1200	1450	1750
		UL / CSA			
Rated operational voltage (V)		IEC	1000		
		UL / CSA	600		
Number of poles		3			
Size (h x w x d) (mm)		304 x 309 x 255	438 x 322 x 239		
Guaranteed electrical coordination		Fuses offer*	Masterpact NW		
Certifications		IEC / CCC / cETLus / cCSAus			

\* For coordination with circuit breaker offer, please contact your Schneider support.

## Tesys F AC1 tools for Panelbuilders

### Product catalogue

For all technical information related to the range  
Ref. MKTED210011EN

### User/installation manual

Installation and user instructions for your Tesys F AC1 contactors  
Ref: 1355817 (LC1F115 - 1250)  
Ref: AAV84796 (LC1F1400 - 2100)

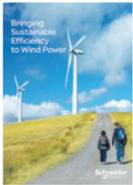
### Application notes for wind turbine solutions

'Low voltage switchgears in wind turbines'  
Ref. COMLVP75

For more information, go to [www.schneider-electric.com](http://www.schneider-electric.com)

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Schneider Electric Industries SAS

Head Office  
35 rue Joseph Monier  
92500 Rueil Malmaison - France  
Tel.: +33 (0)1 41 29 70 00  
[www.schneider-electric.com](http://www.schneider-electric.com)

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