

The smart choice for demanding motor switching

TeSys™ F AC3 contactors
115 to 1000 A



schneider-electric.us

Life Is On

Schneider
Electric

Reliable switching for all AC3 applications

When it comes to motor control, requirements for switching are becoming more demanding in buildings, industry, and data center environments. Whether it's for HVAC, hoisting, or other applications, you need contactors that you can trust will work reliably to avoid costly downtime. You also need components that meet your specifications while providing the best value, features, and quality.

With a wide scope of current and control voltage ratings, the TeSys™ F AC3 range of contactors will satisfy all of your motor switching requirements.

90 years of experience and success in contactor technology has enabled a range of products designed for long electrical life, high performance switching, and short circuit current ratings up to 100kA. You'll also enjoy a space-optimized format that's easy to install and maintain.

Ideal form, fit, and function

The TeSys F AC3 range of contactors is ideally suited to OEM and panel builders serving today's demanding motor control applications.

- Optimized size for reduced panel space
- Control for motor applications between 115 and 1000 A, at 480 Vac
- Multi-standard offer: guarantees compliance with international safety standards

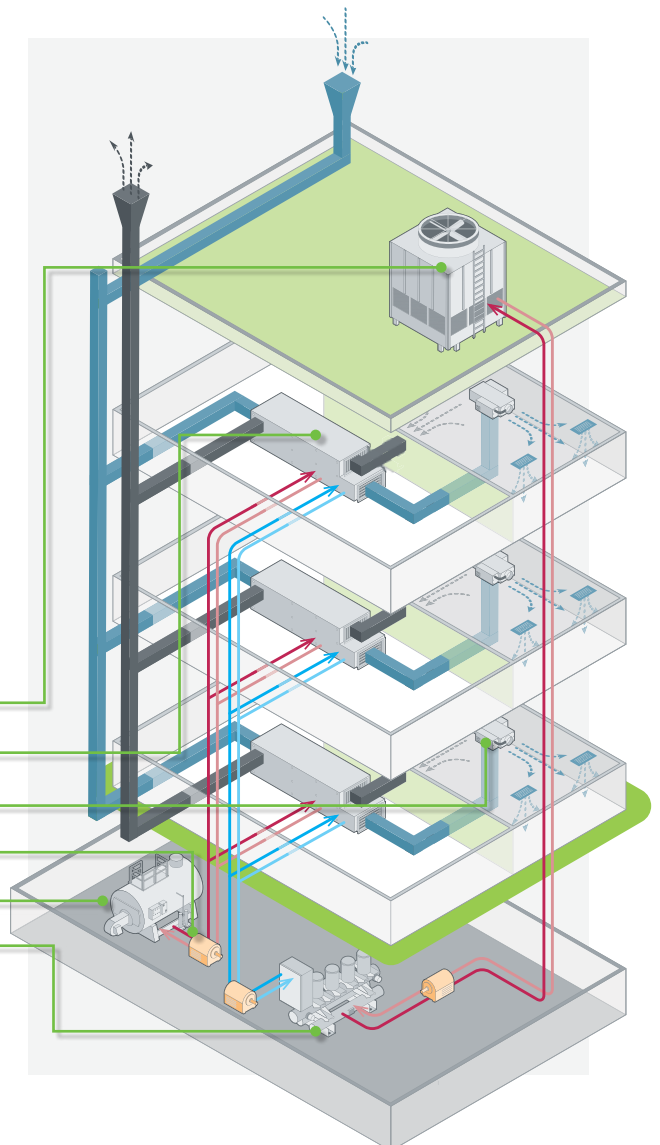
300+ million

More than 300 million motors are used in industry, large buildings and in infrastructure globally, and 30 million new electric motors are sold each year for industrial purposes alone.

Source: The Institute for Industrial Productivity, Industrial Efficiency Technology Database

HVAC&R installation illustrating association of various machines

- 1 Cooling tower
- 2 Air handler
- 3 Terminal unit
- 4 Pump
- 5 Boiler
- 6 Water cooled chiller



Introducing the new TeSys F1000 contactor

The size of electric motors is increasing, especially in applications like HVAC+R for metro tunnels, and large industrial processes. In response, Schneider Electric has extended the TeSys F range of contactors for AC3 duty.

- TeSys F1000 model supports up to 1000 A and 900 HP at 480 Vac
- Footprint is similar to models F1400 through F2100, simplifying design and installation



TeSys F offers a wide range of auxiliaries and accessories.

TeSys F AC1 and AC3 ranges

The complete range of TeSys F AC3 contactors for motor switching is complemented with the TeSys F AC1 range of power switching contactors, dedicated to wind turbine, solar, UPS, and other resistive applications. The two ranges share many of the same benefits and accessories.



Contactor type	LC1F115	LC1F150	LC1F185	LC1F225	LC1F265	LC1F330	LC1F400
Rated operational current, Ie AC3 \leq 480 Vac	115A	150A	185A	225A	265A	330A	400A
Rated operational current, Ie AC1 \leq 480 Vac	175A	200A	200A	250A	285A	370A	420A
HP rating at 480 Vac	75	100	125	150	150	200	250
Rated operational voltage, Ue up to							
Number of poles	3 & 4						
Frequency limits, Hz of operational current ⁽¹⁾							
AC Rated control circuit voltage, Uc	24...600V						
DC Rated control circuit voltage, Uc	24...460V						
Width (inches) 3P contactor	6.44		6.63		7.93		8.39

(1) Sine wave without interference

High reliability, safety, and durability

Long mechanical and electrical life and a consistent low-voltage architecture ensure low OPEX and safer, more reliable operation.

- High-fault component and tested combination short circuit current ratings up to 100kA with circuit breakers and fuses.
- Fully tested, approved, and certified by national and international bodies: UL, CSA, ETL, IEC, CCC, etc.
- Additional ratings: UL/CSA lighting, elevator duty, definite purpose hermetic refrigeration compressor (UL 1995)
- Schneider Electric international manufacturer warranty is our promise of quality, providing complete peace of mind



Target applications

- Buildings
- Industry
- Data centers

Simple design, installation, and maintenance

Flexible, compatible components support your design requirements while reducing inventory, saving time and cost of installation, and ensuring maximum continuity of service.

- Wide range of auxiliaries and accessories
- Shared accessories across entire TeSys F AC1 and AC3 ranges
- Drawer-mounted coils reduce downtime and allow easy maintenance
- Similar frame sizes optimize panel size and reduce assembly time



Please contact your nearest sales office to know about:

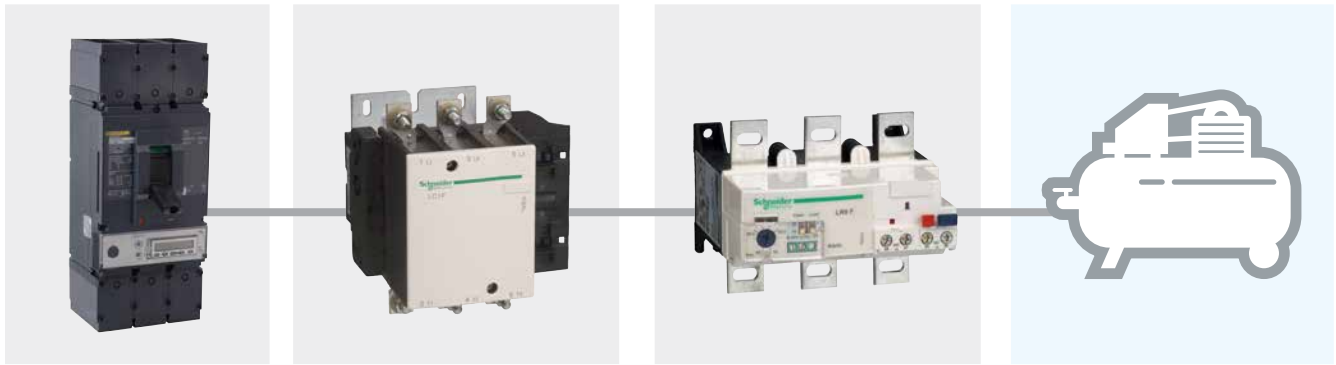
- Reversing contactors
- Changeover contactors
- Magnetic latching contactors - TeSys CR1F



LC1F500	LC1F630	LC1F780	LC1F800	LC1F1000	LC1F1250	LC1F1400	LC1F1700	LC1F2100	LC1F2600
500A	630A	780A	800A	1000A	-	-	-	-	-
700A	1000A	1350A	1000A	1250A	1210A	1400A	1700A	2100A	2600A
400	600	900	800	900	-	-	-	-	-
600 Vac									
2, 3 & 4		3 & 4		3					
16 ^{2/3} ...200									
48...600V		110...500V	110...400V	110...500V	110...600V	110...500V			
48...440V		110...440V	110...400V	110...440V	48...250V	110...440V			
9.17	12.17	27.64	12.17	17.24	12.17	17.24			20.43

Example application

100kA TeSys F circuit breaker solution for 200 HP motor.



PowerPact™ L thermal-magnetic circuit breaker (LLL36600)

TeSys F contactor (LC1F330)

TeSys LR9F electronic overload relay (LR9F75)

200 HP, 480 Vac motor

Service and support from a global leader

Schneider Electric is a worldwide leader in electrical distribution, switching, and motor control. Let us help you coordinate a complete solution for all your motor switching applications.

- Worldwide sales, service, and engineering network with customization capabilities
- Local technical support featuring product application experts and service engineers
- Highly tailored supply chain with worldwide availability close to your production sites
- Dedicated application guide for HVAC+R, hoisting, and more



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