

Schneider Electric LC1D32F7

TeSys Deca three-pole contactor with 110 V AC coil

Product scope

- The TeSys Deca mechanism provides 3 NO power contacts for controlled three-phase load switching.
- Motor duty reaches 15 kW at 380/400 V under the published AC-3 and AC-3e conditions.
- DIN-rail or plate installation is paired with screw-clamp power and control terminals.

Manufacturer source

Schneider Electric official product page for LC1D32F7.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

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Schneider Electric LC1D32F7

TeSys Deca three-pole contactor with 110 V AC coil

Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

Rated operational current	32 A at ≤440 V AC-3/AC-3e
Pole arrangement	3P, 3 NO power poles
Control circuit voltage	110 V AC at 50/60 Hz
Utilization categories	AC-1, AC-3 and AC-3e
Rated operational power	15 kW at 380/400 V AC, 50/60 Hz
Auxiliary contacts	1 NO + 1 NC mechanically linked
Mounting	DIN rail or plate
Connection	Screw-clamp terminals
Product range	TeSys Deca
Lifecycle	Commercialized product
Conventional free-air thermal current	50 A at ≤60 deg C
Rated operational voltage	Up to 690 V AC at 25 to 400 Hz
Motor power at 220/240 V	7.5 kW at 50/60 Hz
Motor power at 415/440 V	15 kW at 50/60 Hz
Motor power at 500 V	18.5 kW at 50/60 Hz
Rated insulation voltage	690 V power circuit; 690 V signaling circuit
Rated impulse withstand voltage	6 kV
Maximum operating rate	3600 cycles per hour at ≤60 deg C
Operating ambient temperature	-40 to +60 deg C without derating
Storage ambient temperature	-60 to +80 deg C
Product dimensions	45 mm W x 85 mm H x 92 mm D
Net weight	0.375 kg
Standards	IEC 60947-1 and IEC 60947-4-1

Product function and system role

Exact configuration

Schneider Electric LC1D32F7 is a TeSys Deca 3-pole contactor rated 32 A for AC-3/AC-3e service with a 110 V AC coil. It is intended for motor starters and controlled power circuits that need linked auxiliary contacts.

LC1D32F7 belongs to the TeSys Deca contactor range and combines three normally open main poles with a 110 V AC 50/60 Hz operating coil. The 1 NO + 1 NC auxiliary arrangement is mechanically linked to the power mechanism, enabling reliable interlock and indication functions in a coordinated starter.

Functional role

Its electromagnet translates the control signal into simultaneous operation of all three main poles, isolating the motor when the coil is released.

The catalog reference denotes the standard 32 A frame with the F7 control-voltage code and integrated auxiliary contact pair.

Key operating characteristics

- The TeSys Deca mechanism provides 3 NO power contacts for controlled three-phase load switching.
- Motor duty reaches 15 kW at 380/400 V under the published AC-3 and AC-3e conditions.
- DIN-rail or plate installation is paired with screw-clamp power and control terminals.

Operating principle and application guidance

Working principle

At 380/400 V the contactor carries the documented 15 kW motor rating, while the same frame covers other motor powers according to supply voltage and utilization category. A 50 A conventional free-air thermal current supports AC-1 selection when the load and enclosure conditions are evaluated separately from motor duty.

Check the application voltage against the correct motor-power row and allow for terminal access, wire bending space and ambient temperature in the enclosure.

Application scenarios

- OEM machine panels can use the device as the power-switching element in a coordinated direct-on-line starter.
- Pump and fan controls can combine its main poles with the NC auxiliary contact for interlock chains.
- Process skids can use the NO auxiliary path to confirm commanded contactor operation to the PLC input circuit.

Integration and replacement boundary

For maintenance, the catalog number should be compared character by character rather than shortened to LC1D32. Confirm the F7 coil, terminal style, mounting clearance and protection scheme, then validate that the connected load remains within the official switching tables.

Critical technical check

Before energizing LC1D32F7, confirm that the control transformer actually supplies 110 V AC at the stated frequency and that the overload and short-circuit devices are coordinated for the selected utilization category.

Manufacturer evidence used

- Schneider Electric official product page for LC1D32F7.
 - Official source: <https://www.se.com/us/en/product/LC1D32F7/>
 - Official datasheet: <https://portal.se.com/Contents/docs/SQD-LC1D32F7.PDF>
- Exact product identity checked: Schneider Electric LC1D32F7

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