



# TeSys D Green

AC/DC compatible coil contractors



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Life Is On



# TeSys D Green contractors

TeSys D range now enriched with new contactors, featuring AC/DC coils (every coil can be energized with either AC or DC), lower consumption and even more.

## Check for 5 major advantages

1

Low control current > **Lower permanent consumption**

Reduced coil power (just 0.5 W / 24 V DC for the BBE coil) contributing to increase machine energy efficiency.

2

Low control current > **Direct PLC control for contactors up to 80 A <sup>(1)</sup>**

TeSys D Green contactors (with BBE coil code) can be driven by a common 24 V DC / 500 mA static output , a relay interface is no longer needed.

3

Coil current permanent monitoring / control > **Constant closing / opening time** regardless of voltage fluctuation, for reliable repetitive actions.

4

Coil current permanent monitoring / control > **Reduced contacts bounces** due to machine shocks and vibrations, preventing from microbreaks.

5

Keeps legacy standard dimensions and terminal assignment > **one 'TeSys D Green' can replace many 'TeSys D' contactors as a spare**, when maintenance is needed, with better performances.

(1) 80 A rating available end 2017.



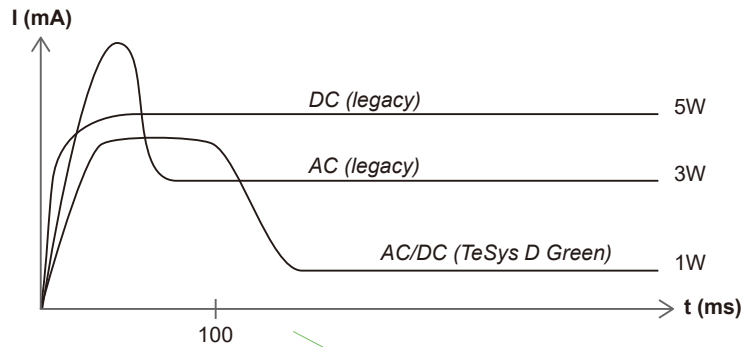
**Only 4 contactors in each rating, for covering control voltages from 24 to 500 V DC or AC.**

**> Significant stock reduction.**

# TeSys D Green contactors

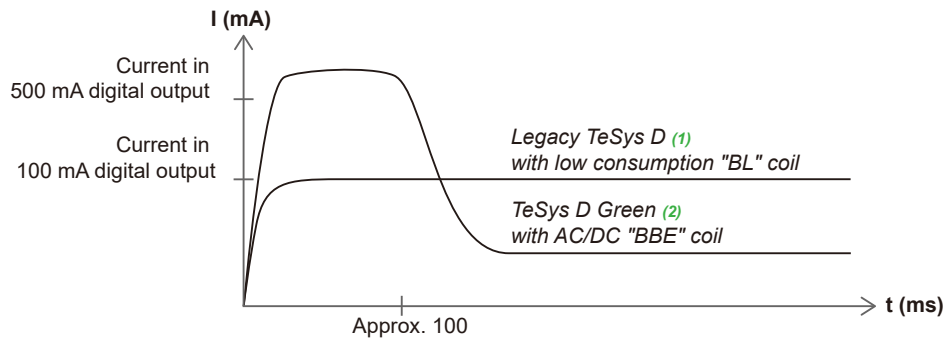
## Coil currents comparison

TeSys D Green (AC/DC coil) vs TeSys D legacy (AC, DC coils)



TeSys D Green brings a significant reduction of energy consumption.

TeSys D Green (AC/DC "BBE" coil) vs TeSys D (low consumption "BL" coil)



(1) Up to 38 A.  
(2) 45 to 80 A.

TeSys D Green is well adapted to direct control by PLC static outputs, even in its high ratings.

## References

## TeSys D Green contactors

For motor control up to 37 kW / 415 V Category AC-3



LC1D09●●●



LC1D40A●●●

3-pole contactors							Rated operational current in AC-3 440 V up to	Instantaneous auxiliary contacts	Basic reference, to be completed by adding the control voltage code	Weight
Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ( $\theta \leq 60^\circ\text{C}$ )										
220 V 230 V	380 V 400 V	415 V	440 V	500 V	660 V 690 V				Fixing <sup>(1)</sup>	
kW	kW	kW	kW	kW	kW	A				kg
Connection by screw clamp terminals										
2.2	4	4	4	5.5	5.5	9	1	1	LC1D09●●●	0.368
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC1D12●●●	0.373
4	7.5	9	9	10	10	18	1	1	LC1D18●●●	0.378
5.5	11	11	11	15	15	25	1	1	LC1D25●●●	0.433
7.5	15	15	15	18.5	18.5	32	1	1	LC1D32●●●	0.438
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC1D38●●●	0.442
Power connections by EverLink® BTR (2) screw connectors and control by screw clamp terminal										
11	18.5	22	22	22	30	40	1	1	LC1D40A●●●	0.992
15	22	25	30	30	33	50	1	1	LC1D50A●●●	0.997
18.5	30	37	37	37	37	65	1	1	LC1D65A●●●	1.002
22	37	37	37	45	45	80	1	1	LC1D80A●●● <sup>(3)</sup>	1.002

## Auxiliary contact blocks and add-on modules

See page 6

## Control voltage codes

## AC/DC supply

Volts	24 (DC only)	24-60	48-130	100-250	250 V - 415 V AC / 250 V - 500 V DC
LC1D09 ...D38, LC1D40A ... D80A					
U 0.85...1.1 Uc		BNE	EHE	KUE	USE <sup>(3)</sup>
LC1D40A ... D80A					
U 0.8...1.2 Uc	BBE				

<sup>(1)</sup> LC1D09 to D80A: clip-on mounting on 35 mm 5 rail AM1 DP or screw fixing.<sup>(2)</sup> BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4).<sup>(3)</sup> Available end of 2017.

## References

## TeSys D Green reversing contactors

For motor control up to 37 kW / 415 V Category AC-3



LC2D09●●●



LC2D40A●●●

## 3-pole reversing contactors

## Pre-wired power connections

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 ( $\theta \leq 60^\circ\text{C}$ )

Rated operational current in AC-3 440 V up to

Instantaneous auxiliary contacts

Contactors supplied with coil  
Partial reference, to be completed by adding the control voltage code

Weight

220 V	380 V	415 V	440 V	500 V	660 V
230 V	400 V				690 V

kW	kW	kW	kW	kW	kW	A					kg
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With mechanical interlock, without electrical interlocking, for connection by screw clamp terminals or Everlink BTR screw connectors <sup>(2) (3)</sup>

2.2	4	4	4	5.5	5.5	9	1	1	LC2D09●●●	0.783
3	5.5	5.5	5.5	7.5	7.5	12	1	1	LC2D12●●●	0.793
4	7.5	9	9	10	10	18	1	1	LC2D18●●●	0.803
5.5	11	11	11	15	15	25	1	1	LC2D25●●●	0.913
7.5	15	15	15	18.5	18.5	32	1	1	LC2D32●●●	0.923
9	18.5	18.5	18.5	18.5	18.5	38	1	1	LC2D38●●●	0.933
11	18.5	22	22	22	30	40	1	1	LC2D40A●●● <sup>(2)</sup>	2.154
15	22	25	30	30	33	50	1	1	LC2D50A●●● <sup>(2)</sup>	2.164
18.5	30	37	37	37	37	65	1	1	LC2D65A●●● <sup>(2)</sup>	2.174
22	37	37	37	45	45	80	1	1	LC2D80A●●● <sup>(2) (4)</sup>	2.174

## Auxiliary contact blocks and add-on modules

See page 6.

## Coil voltage codes

## AC/DC supply

Volts	24 (DC only)	24-60	48-130	100-250	250 V - 415 V AC / 250 V - 500 V DC
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LC2D09 ...D32,  
LC2D40A ... D80A

U 0.85...1.1 Uc	BNE	EHE	KUE	USE <sup>(4)</sup>
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LC2D40A ...D80A

U 0.8...1.2 Uc	BBE
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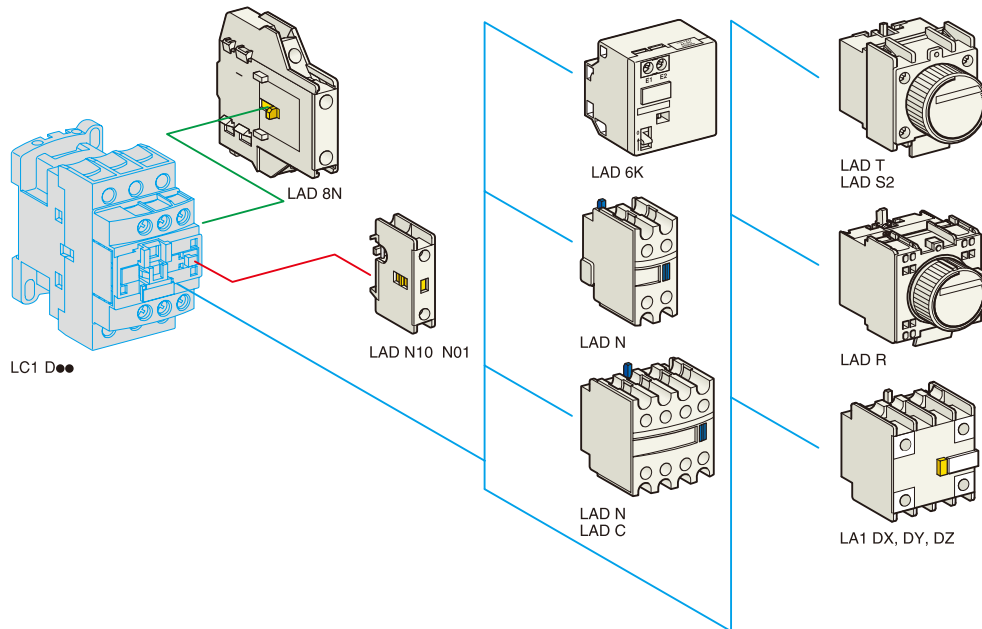
<sup>(1)</sup> LC2D09 to D80A: clip-on mounting on 35 mm 5 rail AM1 DP or screw fixing.<sup>(2)</sup> BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4).<sup>(3)</sup> Electrical interlocking is recommended when 2 orders (direct and reverse) could appeared in the same time.<sup>(4)</sup> Available end of 2017.

## References

## TeSys contactors






## TeSys D contactors and reversing contactors

## Instantaneous auxiliary contact blocks



## Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments

Clip-on mounting	Number of contacts per block	Composition					Reference
							
Front	1	-	-	-	1	-	LADN10
		-	-	-	-	1	LADN01
	2	-	-	-	1	1	LADN11
		-	-	-	2	-	LADN20
		-	-	-	-	2	LADN02
		-	-	-	2	2	LADN22    LADN22S <sup>(1)</sup>
	4	-	-	-	1	3	LADN13
		-	-	-	4	-	LADN40
		-	-	-	-	4	LADN04
		-	-	-	3	1	LADN31
4 incl. 1 N/O & 1 N/C make before break		-	-	-	2	2	LADC22
Side	2	-	-	-	1	1	LAD8N11
		-	-	-	2	-	LAD8N20
		-	-	-	-	2	LAD8N02

## Maximum number of auxiliary contacts per rating

Contactors			Instantaneous auxiliary contacts				Time delay	
Coil	Pole	Rating ref.	Side mounted		Front mounted			Front mounted
			Side mounted	Front mounted	1 contact	2 contact	4 contact	
AC/DC compatible	3P	LC1 D09...D38	1 on Right Hand side	and	-	1	or 1	or 1
		LC1 D40A...D80A	1 on RH or LH side	and	-	1	or 1	or 1
	4P	LC1 DT60A and DT80A	1 on RH or LH side	and	-	1	or 1	or 1

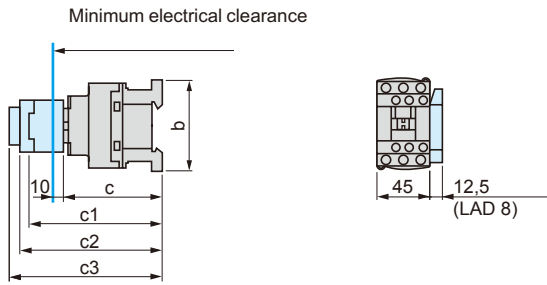
<sup>(1)</sup> With red front face - for safety chain indication.

# Dimensions

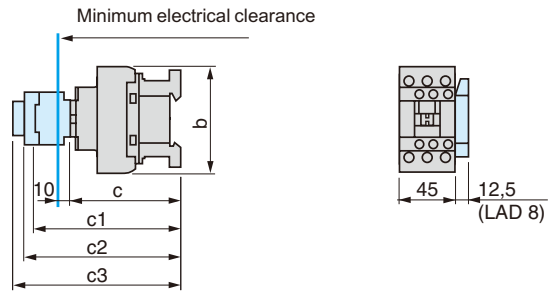
## TeSys D Green

### Contactors with AC/DC coil

#### LC1 D09...D18 (3-pole), with AC/DC compatible coil

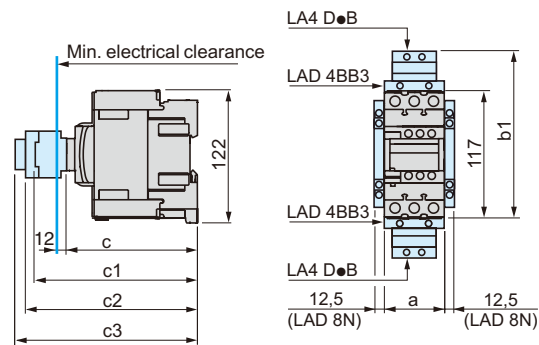


#### LC1 D25...D38 (3-pole), with AC/DC compatible coil



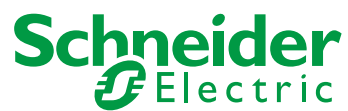
LC1		D09...D18	D25...D38
b	without add-on blocks	77	85
c	without cover or add-on blocks	84	90
	with cover, without add-on blocks	86	92
c1	with LAD N or C (2 or 4 contacts)	117	123
c2	with LA6 DK10	129	135
c3	with LAD T, R, S	137	143
	with LAD T, R, S and sealing cover	141	147

#### LC1 D40A...D80A (3-pole), LC1 DT60A...DT80A (4-pole), with AC/DC compatible coil



LC1		D40A...D65A	DT60A...DT80A
a		55	70
b1	LAD 4BB3	136	—
	with LAD4DWB	166	—
c	without cover or add-on blocks	118	118
	with cover, without add-on blocks	120	120
c1	with LAD N (1 contact)	—	—
	with LAD N or C (2 or 4 contacts)	150	150
c2	with LAD 6K10	163	163
c3	with LAD T, R, S	171	171
	with LAD T, R, S and sealing cover	175	175

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