Low voltage
Catalogue | 2016

TeSys N

Nema rated contactors and open style motor starters

Life Is On | Schneider Electric

TeSys N non-reversing contactor, Size 1

TeSys N non-reversing contactor, Size 3

New!

TeSys N Non-Reversing Contactors

TeSys N contactors are used to switch heating loads, capacitors, transformers and electric motors where overload protection is provided separately. TeSys N contactors are available in NEMA Sizes 00–7. Target market segments include hospitals; retail; food and beverage; marine; oil and gas; and mining, metals, and minerals.

Table 1: TeSys N Non-Reversing Contactors, 3-Pole Polyphase, 600 Vac Max. (replace ●● with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog No. *[10]*
00	9	200	1.5	T02AN13●●
		230	1.5	
		460	2	
		575	2	
0	18	200	3	T02BN13●●
		230	3	
		460	5	
		575	5	
1	27	200	7.5	T02CN13●●
		230	7.5	
		460	10	
		575	10	
2	45	200	10	T02DN13●●
		230	15	
		460	25	
		575	25	
3	90	200	25	T02EN13●●*[11]*
		230	30	
		460	50	
		575	50	
4	135	200	40	T02FN13●●*[11]*
		230	50	
		460	100	
		575	100	
5	270	200	75	T02GN13●●*[11]*
		230	100	
		460	200	
		575	200	
6	540	200	150	T02HN13●●*[11]*
		230	200	
		460	400	
		575	400	
7	810	200	—	T02JN13●●*[11]*
		230	300	
		460	600	
		575	600	

Table 2: TeSys N Non-Reversing Contactors, 3-Pole Single Phase, 600 Vac Max. (replace ●● with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog Number
00	9	115	1/3	T02AN13●●
		230	1	
0	18	115	1	T02BN13●●
		230	2	
1	27	115	2	T02CN13●●
		230	3	
2	45	115	3	T02DN13●●
		230	7.5	

Table 3: TeSys N Coil Voltage Codes

Voltage	Voltage Code by NEMA Size								
	Size 00	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7
24 Vac	B7	B7	B7	B7	B6	B6	n/a		
24 Vdc	BD	BD	BD	BD	BD	BD	n/a		
120 Vac	G7	G7	G7	G7	G6	G6	G7	F7	F7
208 Vac	LE7	LE7	LE7	LE7	L6	L6	L7	L7	L7
240 Vac	U7	U7	U7	U7	U6	U6	U7	U7	U7
480 Vac	T7	T7	T7	T7	Q5	Q5	S7	N7	N7

Dimensions: page 9 to page 13
Accessories: page 5 to page 7
Replacement Parts: page 8
Lugs: page 7

[10] Replace the bullets (●●) in the catalog number with the coil voltage code. Refer to voltage codes shown in Table 3.
[11] Order lugs separately. See Table 25. The mounting hardware (screws, washers, and nuts) comes with the contactors, not the lugs. Starters Sizes 3–7 come with lugs.

TeSys N reversing contactor, Size 00

TeSys N reversing contactor, Size 4

New!

TeSys N Reversing Contactors

TeSys N reversing contactors are used for starting, stopping and reversing AC motors where overload protection is provided separately. TeSys N reversing contactors are mechanically and electrically interlocked and are available in NEMA Sizes 00–7. Target market segments include hospitals; retail; food and beverage; marine; oil and gas; and mining, metals, and minerals.

Table 4: TeSys N Reversing Contactors, 3-Pole Polyphase, 600 Vac Max. (replace •• with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog No. *[12]*
00	9	200	1.5	T02AN23••
		230	1.5	
		460	2	
		575	2	
0	18	200	3	T02BN23••
		230	3	
		460	5	
		575	5	
1	27	200	7.5	T02CN23••
		230	7.5	
		460	10	
		575	10	
2	45	200	10	T02DN23••
		230	15	
		460	25	
		575	25	
3	90	200	25	T02EN23••*[13]*
		230	30	
		460	50	
		575	50	
4	135	200	40	T02FN23••*[13]*
		230	50	
		460	100	
		575	100	
5	270	200	75	T02GN23••*[13]*
		230	100	
		460	200	
		575	200	
6	540	200	150	T02HN23••*[13]*
		230	200	
		460	400	
		575	400	
7	810	200	—	T02JN23••*[13]*
		230	300	
		460	600	
		575	600	

Table 5: TeSys N Reversing Contactors, 3-Pole Single Phase, 600 Vac Max. (replace •• with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog No. *[12]*
00	9	115	1/3	T02AN23••
		230	1	
0	18	115	1	T02BN23••
		230	2	
1	27	115	2	T02CN23••
		230	3	
2	45	115	3	T02DN23••
		230	7.5	

Table 6: TeSys N Coil Voltage Codes

Voltage	Voltage Code by NEMA Size								
	Size 00	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7
24 Vac	B7	B7	B7	B7	B6	B6	n/a		
24 Vdc	BD	BD	BD	BD	BD	BD	n/a		
120 Vac	G7	G7	G7	G7	G6	G6	G7	F7	F7
208 Vac	LE7	LE7	LE7	LE7	L6	L6	L7	L7	L7
240 Vac	U7	U7	U7	U7	U6	U6	U7	U7	U7
480 Vac	T7	T7	T7	T7	Q5	Q5	S7	N7	N7

Dimensions: page 9 to page 13
Accessories: page 5 to page 7
Replacement Parts: page 8
Lugs: page 7

[12] Replace the bullets (••) in the catalog number with the coil voltage code. Refer to the voltage codes shown in Table 6.
[13] Order lugs separately. See Table 25. The mounting hardware (screws, washers, and nuts) comes with the contactors, not the lugs. Starters Sizes 3–7 come with lugs.

TeSys N non-reversing starter, Size 1

TeSys N Size 1 Contactor + TeSys LRD Bimetallic Overload Relay

TeSys N non-reversing starter, Size 3

TeSys N Size 1 Contactor + TeSys LR9D Electronic Overload Relay

For more information on TeSys D Overload relays see main catalog.

Dimensions: page 9 to 13
TeSys N Accessories: pages 5 to 7

New!

TeSys N Non-Reversing Starters

TeSys N starters are used for full-voltage starting and stopping of AC squirrel-cage motors. Starters are available in NEMA Sizes 00–7 and come standard with Motor Logic Class 10/20 selectable solid-state overload relays. Starters with bimetal overload protection can be assembled from TeSys N contactors and TeSys D overload relays.

Table 7: 3-Pole Polyphase, 600 Vac Max. (replace •• with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog No. *[14]*
00	9	200	1.5	T36AN13••
		230	1.5	
		460	2	
		575	2	
0	18	200	3	T36BN13••
		230	3	
		460	5	
		575	5	
1 *[15]*	27	200	7.5	T36CN13••
		230	7.5	
		460	10	
		575	10	
2	45	200	10	T36DN13••
		230	15	
		460	25	
		575	25	
3	90	200	25	T36EN13••
		230	30	
		460	50	
		575	50	
4	135	200	40	T36FN13••
		230	50	
		460	100	
		575	100	
5	270	200	75	T36GN13••
		230	100	
		460	200	
		575	200	
6	540	200	150	T36HN13••
		230	200	
		460	400	
		575	400	
7	810	200	—	T36JN13••
		230	300	
		460	600	
		575	600	

Table 8: TeSys N Coil Voltage Codes

Voltage	Voltage Code by NEMA Size								
	Size 00	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7
24 Vac *[16]*	B7	B7	B7	B7	B6	B6	—	—	—
24 Vdc *[17]*	BD	BD	BD	BD	BD	BD	—	—	—
120 Vac *[16]*	G7	G7	G7	G7	G6	G6	G7	F7	F7
208 Vac	LE7	LE7	LE7	LE7	L6	L6	L7	L7	L7
240 Vac	U7	U7	U7	U7	U6	U6	U7	U7	U7
480 Vac	T7	T7	T7	T7	Q5	Q5	S7	N7	N7

Table 9: TeSys LR9D Electronic Overload Relays

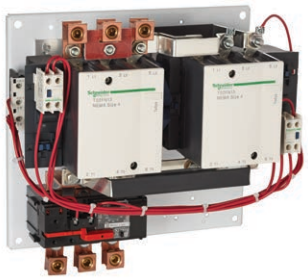
Current Setting Range (A)	For Direct Mounting to TeSys N Contactors	Class 5/10/20/30 Selectable
0.1–0.5	Size 00–1	LR9D01
0.4–2.0		LR9D02
1.6–8.0		LR9D08
6.4–32		LR9D32

Table 10: TeSys D Overload Relays—Ambient Compensated, Bimetallic, Direct Mounting

Current Setting Range (A)	For Direct Mounting to TeSys N Contactors	Class 10 with Single-Phase Sensitivity	Class 10 without Single-Phase Sensitivity	Class 20 with Single-Phase Sensitivity	Class 20 without Single-Phase Sensitivity
0.10–0.16	Size 00–1	LRD01	LR3D01	—	—
0.16–0.25		LRD02	LR3D02	—	—
0.25–0.40		LRD03	LR3D03	—	—
0.40–0.63		LRD04	LR3D04	LRD04L	LR3D04L
0.63–1		LRD05	LR3D05	LRD05L	LR3D05L
1–1.6		LRD06	LR3D06	LRD06L	LR3D06L
1.6–2.5		LRD07	LR3D07	LRD07L	LR3D07L
2.5–4		LRD08	LR3D08	LRD08L	LR3D08L
4–6		LRD10	LR3D10	LRD09L	LR3D09L
5.5–8	Size 00–1	LRD12	LR3D12	LRD12L	LR3D12L
7–10	Size 00–1	LRD14	LR3D14	LRD14L	LR3D14L
9–13	Size 0–1	LRD16	LR3D16	LRD16L	LR3D16L
12–18	Size 0–1	LRD21	LR3D21	LRD21L	LR3D21L
16–24	Size 0–1	LRD22	LR3D22	—	—
17–24	Size 0–1	—	—	LRD22L	LR3D22L
23–32	Size 1	LRD32	LR3D32	LRD32L	LR3D32L
9–13	Size 2	LRD313	LR3D313	LRD313L	—
12–18		LRD318	LR3D318	LRD318L	—
16–25		LRD325	LR3D325	LRD325L	—
23–32		LRD332	LR3D332	LRD332L	—
30–40		LRD340	LR3D340	LRD340L	—
37–50		LRD350	LR3D350	LRD350L	—

[14] Replace the bullets (••) in the catalog number with the coil voltage code. Refer to the coil voltage codes shown in Table 8.
[15] Special size combinations of the contactor and Motor Logic overload relay are available. Add **0** to the catalog number before the coil voltage for a Size 0 overload relay (6–18 A); **9** for a Size 00C (3–9 A); and **8** for a Size 00B (1.5–4.5 A)—for example, T36CN13**0**G7.
[16] The 24 and 120 Vac coils are available with optional separate control; add **Form S** to the catalog number (for example, T36AN13B7**S**).
[17] The 24 Vdc coil requires separate control; add Form S to the catalog number (for example, T36AN13BD**S**).

TeSys N reversing starter, Size 00



TeSys N reversing starter, Size 4

New!

TeSys N Reversing Starters

TeSys N reversing starters are used for full-voltage starting, stopping, and reversing of AC squirrel cage motors. Reversing starters are mechanically and electrically interlocked and are available in NEMA Sizes 00 through 5. Starters come with Motor Logic Class 10/20 selectable solid-state overload relays as standard. Reversing starters with bimetal overload protection can be assembled from TeSys N reversing contactors and TeSys D overload relays. For more information on TeSys D overload relays, seemain catalog.

Table 11: TeSys N Reversing Starters, 3-Pole Polyphase, 600 Vac Max. (replace •• with the coil voltage code)

NEMA Size	Continuous Current Rating (A)	Motor Voltage	Max HP	Open Catalog No. *[18]*
00	9	200	1.5	T36AN23••
		230	1.5	
		460	2	
		575	2	
0	18	200	3	T36BN23••
		230	3	
		460	5	
		575	5	
1*[19]*	27	200	7.5	T36CN23••
		230	7.5	
		460	10	
		575	10	
2	45	200	10	T36DN23••
		230	15	
		460	25	
		575	25	
3	90	200	25	T36EN23••
		230	30	
		460	50	
		575	50	
4	135	200	40	T36FN23••
		230	50	
		460	100	
		575	100	
5	270	200	75	T36GN23••
		230	100	
		460	200	
		575	200	

Table 12: TeSys N Coil Voltage Codes

Voltage	Voltage Code by NEMA Size						
	Size 00	Size 0	Size 1	Size 2	Size 3	Size 4	Size 5
24 Vac*[20]*	B7	B7	B7	B7	B6	B6	n/a
24 Vdc *[21]*	BD	BD	BD	BD	BD	BD	n/a
120 Vac*[20]*	G7	G7	G7	G7	G6	G6	G7
208 Vac	LE7	LE7	LE7	LE7	L6	L6	L7
240 Vac	U7	U7	U7	U7	U6	U6	U7
480 Vac	T7	T7	T7	T7	Q5	Q5	S7

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E164862
CCN NLDX

LR43364
Class 3211 04

[18] Replace the bullets (••) in the catalog number with the coil voltage code. Refer to the coil voltage codes shown in Table 12.
[19] Special size combinations of the contactor and Motor Logic overload relay are available. Add **0** to the catalog number before the coil voltage for Size 0 overload relays (6–18 A); **9** for Size 00C (3–9 A); and **8** for Size 00B (1.5–4.5 A)—for example, T36CN23**0**G7.
[20] The 24 and 120 Vac coils are available with optional separate control; add **Form S** to the catalog number (for example, T36AN13B7**S**).
[21] The 24 Vdc coil requires separate control; add Form S to the catalog number (for example, T36AN23BD**S**).

Front Mounted Auxiliary Blocks

Auxiliary Contacts, Time Delay, Mechanical Latch

Table 13: Standard, Instantaneous Auxiliary Contact Blocks

Snap-On Mounting	Number of Contacts	Composition N.O.	Composition N.C.	Catalog Number
To front of Size 00–2 or **To right side of** Size 3–7	4	2	2	LADN22 *[22]*
		1	3	LADN13 *[22]*
		4	0	LADN40 *[22]*
		0	4	LADN04 *[22]*
		3	1	LADN31 *[22]*
		2 *[23]*	2 *[23]*	LADC22 *[23]*
	2	1	1	LADN11 *[22]*
		2	0	LADN20 *[22]*
		0	2	LADN02 *[22]*
To left side of Size 3–7	1	1	0	LADN10
		0	1	LADN01
To side of Size 00–2	2	1	1	LAD8N11 *[24]*
		2	0	LAD8N20 *[24]*

Table 14: Instantaneous Blocks with Dust-Tight Auxiliary Contacts (IP54) NEMA 12

Snap-On Mounting	Standard Contacts N.O.	Standard Contacts N.C.	Dust-Tight Contacts N.O.	Dust-Tight Contacts N.C.	Catalog Number
To front of Size 00–2 or **To right side of** Size 3–7	—	—	2	—	LA1DX20
	2	—	2	—	LA1DZ40
	1	1	2	—	LA1DZ31
	—	—	2	—	LA1DY20 *[25]*

Table 15: Pneumatic Time Delay Contact Blocks

Snap-On Mounting	Time Delay Contacts N.O.	Time Delay Contacts N.C.	Type	Range of Time Delay	Catalog Number *[26]*
To front of Size 00–2 or **To right side of** Size 3–7	1	1	On energization (on delay)	0.1 to 3 s *[27]*	LADT0
				0.1 to 30 s	LADT2
				10 to 180 s	LADT4
				1 to 30 s *[28]*	LADS2
	1	1	On de-energization (off-delay)	0.1 to 3 s *[27]*	LADR0
				0.1 to 30 s	LADR2
				10 to 180 s	LADR4

Table 16: Mechanical Latch Blocks with Manual or Electrical Unlatch

Front snap-on mounting onto	Application	Catalog Number
Size 00–2	For silent operation and energy conservation	LAD6K10 *[29][30]*

Table 17: Coil Voltage Codes for LA6DK Mechanical Latch Blocks

Volts	24	120	208	240	480
AC or DC *[31]*	B	F	L	M	R

[22] For spring terminal versions of these blocks, add a **3** to the end of the catalog number (for example, LADN22**3**). For slip-on versions, add **9** to the end of the catalog number (for example, LADN22**9**).
[23] Including 1 N.O. + 1 N.C. make-before-break overlapping contacts.
[24] 1 block may be added to the left side of Size 00–1, AC coils only; only 1 block may be added to either side of the Size 2 contactor, AC coil only. Cannot be installed on Size 00–2 contactors with DC coils.
[25] Device comes with 4 ground terminal points.
[26] For spring terminal versions of these blocks, add a **3** to the end of the catalog number (for example, LADT2**3**). There is no charge for this modification.
[27] Scale range is expanded between 0.1 and 0.6 seconds on the dial for more accurate settings at the lower end of the range.
[28] Switching time between the opening of the N.C. contact and the closing of the N.O. contact: 40 ms ± 15 ms .
[29] Complete the catalog number by adding the coil voltage code (for example, LAD6K10F).
[30] Does not include internal coil clearing contact.
[31] DC available at 24 V only.

Coil Suppressors and Cabling Accessories

RC Coil Suppressor

LA4DA1U

- Transient voltage limited to 300% of nominal voltage, maximum.
- Oscillating frequency is limited to 400 Hz maximum. Slight increase in drop-out time (1.2 to 2 times normal).

Table 18: Resistor/Capacitor Circuit (RC) for Reduction of Electrical Noise in AC Contactor Coils

Installed by	Mounting on	Operating Voltage 50/60 Hz	Catalog Number
Snapping into the cavity on the right side without tools *[32]*	Size 00–1	24 V	LAD4RCE
		120 V	LAD4RCG
		120–240 V	LAD4RCU
Snap-on mounting, and connection without tools to the contactor coil terminals	Size 2	24 V	LAD4RC3E
		120 V	LAD4RC3G
		120-240 V	LAD4RC3U

Varistor Coil Suppressor

- Transient voltage value limited to 200% of nominal voltage, maximum.
- Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times normal).

Table 19: Varistor (Peak Limiting) for Reduction of Electrical Noise in AC Contactor Coils

Installed by	Mounting on	Operating Voltage 50/60 Hz	Catalog Number
Snapping into the cavity on the right side without tools*[33]*	Size 00–1	24 V	LAD4VE
		120 V	LAD4VG
		120–240 V	LAD4VU
Snap-on mounting, and connection without tools to the contactor coil terminals	Size 2	24 V	LAD4V3E
		120 V	LAD4V3G
		120-240 V	LAD4V3U

Diode Coil Suppressor

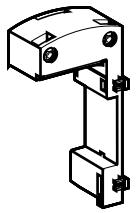
- No overvoltage or oscillating frequency.
- Polarized component. Increased drop-out time (6–10 times normal).

LAD4T3B

Table 20: Diode for Reduction of Electrical Noise in DC Contactor Coils

Installed on the upper part by	Mounting on	Operating Voltage, DC	Catalog Number
Snap-on mounting and connection w/o tools to the contactor coil terminals	Size 00–1	24 Vdc	LAD4DDL
Clip-on front mounting	Size 2	24 Vdc	LAD4D3U

Bidirectional Diode Coil Suppressor



LAD4BB• •

- Protection provided by limiting the transient voltage to 2 Uc max.
- Maximum reduction of transient voltage peaks.

Table 21: Bidirectional Peak Limiting Diode

Installed by	Mounting on	Operating Voltage 50/60 Hz and DC	Catalog Number
Snapping into the cavity on the right side of the contactor *[34]*	Size 00–1*[35]*	24 (AC only)	LAD4TB
Clip-on front mounting and connection without tools to the contactor coil terminals *[35]*	Size 2	24 V	LAD4T3B
		120 V	LAD4T3G
		208–240 V	LAD4T3U

TeSys N Cabling Accessories

Table 22: Cabling Accessories

Usage	Mounting on	Operating Voltage 50/60 Hz		Catalog Number
For adapting existing wiring to a new product or for use with top-mounting accessory.	Size 00–1, AC only	Without coil suppression		LAD4BB
		With coil suppression (varistor)	24 V	LAD4BBVE
			120 V	LAD4BBVG
			120-240 V	LAD4BBVU
For adapting existing wiring to a new product or for use with top-mounting accessory	Size 2, AC only	—		LAD4BB3

[32] Installing the suppressor into the cavity makes the electrical connection. The overall width of the contactor remains the same.
[33] Installing the suppressor into the cavity makes the electrical connection. The overall width of the contactor remains the same.
[34] Installing the suppressor into the cavity makes the electrical connection. The overall width of the contactor remains the same.
[35] For Size 00–2 with DC coils, 3-pole contactors are fitted with built-in bidirectional diode suppression as standard.

Refer to Catalog **MKTED210011EN**

Electronic Timers and Interface Modules

The following accessories require use of cabling accessories (LAD4BB●●) for proper mounting.

The solid-state **Electronic Serial Timer Modules** in Table 22 delay the energizing of the contactor coil, and feature built-in varistor surge suppression.

Table 23: Electronic Serial Timer Modules

Type	Operational Voltage 24–250 Vac	Time Delay	Catalog Number
On-delay	Size 00–2	0.1–2 s	LA4DT0U
		1.5–30 s	LA4DT2U
		25–500 s	LA4DT4U

The **Interface Modules** in Table 23 allow the contactor coils to be energized from low voltage and low current level signals. They come in mechanical relay and solid-state versions. The relay plus manual operation versions include a lever for manually turning the contactor on and off. When a module receives a low-level signal, it allows the separate-sourced control voltage to flow to the contactor coil. It saves space and wiring time compared to conventional interposing relays.

Table 24: Interface Modules *[36]*

Interface Type	Operational Voltage 24–250 Vac	Input Voltage	Catalog Number
Relay	Size 00–2	24 Vdc	LA4DFB
Relay Plus Manual Operation	Size 00–2	24 Vdc	LA4DLB
Solid State	Size 00–2	24 Vdc	LA4DWB

Table 25: Lugs and Lug Kits *[37]*

TeSys N Contactor	Lugs		Lug Kits*[38]*	Cable size AWG range
	Line Size	Load Side		
Size 3	3 each DZ2FF1	3 each DZ2FF1	DZ2FF6	14 to 2/0
Size 4	3 each DZ2FG1	3 each DZ2FG1	DZ2FG6	6 to 3/0
Size 5	3 each DZ2FJ1	3 each DZ2FJ1	DZ2FJ6	4 to 500 MCM
Size 6	3 each DZ2FK1	3 each DZ2FK1	DZ2FK6	2 x 2 to 600 MCM
Size 7	1 each DZ2FL1 DZ2FL2 DZ2FL3	1 each DZ2FL1 DZ2FL2 DZ2FL3	DZ2FL6	3 x 2 to 600 MCM

Table 26: TeSys Safety-Chain Identification System

Description	Compatibility	Package Qty	Catalog Number
Red retrofit contactor safety cover	Size 00–2	10	LAD9ET1S
Red auxiliary contact block, 2 N.O. + 2 N.C.	Size 00–2	1	LADN22S

LA4DFB

LAD9ET1S

LADN22S

[36] Adapter required. See Table 22
[37] The mounting hardware (screws, washers, and nuts) comes with the contactors, not the lugs. Starters Sizes 3–7 come with lugs.
[38] Lug kits incude 6 lugs.

Replacement Contacts and Coils

Table 27: Replacement Contact Sets *[39]*

For use on contactors	Number of Poles	Catalog Number
Size 3–4	3 poles	LA5FF431
Size 5	3 poles	LA5F400803
Size 6	3 poles	LA5F500803
Size 7	3 poles	LA5F630803

TeSys N Magnet Coils

Table 28: Size 00–1 AC Coils

Rated Nominal Voltage	Catalog Number 50/60 Hz
24	LXD1B7
32	LXD1C7
36	LXD1CC7
42	LXD1D7
48	LXD1E7
60	LXD1EE7
100	LXD1K7
110	LXD1F7
115	LXD1FE7
120	LXD1G7
127	LXD1FC7
200	LXD1L7
208	LXD1LE7
220/230	LXD1M7
230	LXD1P7
230/240	LXD1U7
277	LXD1W7
380/400	LXD1Q7
400	LXD1V7
415	LXD1N7
440	LXD1R7
480	LXD1T7
575	LXD1SC7
600	LXD1X7
Specifications	50/60 Hz
Average consumption - Inrush (inductance 0.75) - Sealed (inductance 0.3)	 70 VA 7 VA
Operating range@ 60 °C	50 Hz: 80–110% of nominal 60 Hz: 85–110% of nominal

Table 29: Size 2 AC Coils

Rated Nominal Voltage V	Catalog Number 50/60 Hz
24	LXD3B7
32	LXD3C7
42	LXD3D7
48	LXD3E7
100	LXD3K7
110	LXD3F7
115	LXD3FE7
120	LXD3G7
127	LXD3FC7
200	LXD3L7
208	LXD3LE7
220	LXD3M7
230	LXD3P7
240	LXD3U7
277	LXD3W7
380	LXD3Q7
400	LXD3V7
415	LXD3N7
440	LXD3R7
480	LXD3T7
500	LXD3S7
575	LXD3SC7
600	LXD3X7
Specification	**50/60 Hz**
Average consumption: - Inrush (inductance 0.3) - Sealed (inductance 0.3)	 140 VA (inductance: 0.9) 7.5 VA (inductance: 0.9)
Operating range at θ < 55 °C / 131 °F	80–115% of nominal voltage

Table 30: Size 3–7 AC Coils

Contactor Size	Hz	Catalog Number	Catalog Number Suffix *[40]*												
			24 V	48 V	110 V	120 V	208 V	220 V	240 V	277 V	380 V	415 V	440 V	480 V	600 V
Size 3–4	60	LX1FF●	020	040	092	095	162	184	187	220	316	340	360	380	475
Size 5	40–400	LX1FH●	0242	0482	1102	1272	2002	2202	2402	2772	3802	3802	4402	5002	6002
Size 6*[41]*	40–400	LX1FK●	—	048	110	110	200	220	240	280	380	415	415	415	600
Size 7*[41]*	40–400	LX1FL●	—	048	110	110	200	220	240	260	380	415	415	415	600

Table 31: Size 3–4 DC Coils

Device Type	Catalog Number	Catalog Number Suffix *[42]*									
		24 V	36 V	48 V	60 V	72 V	110 V	125 V	220 V	250 V	440 V
Size 3–4	LX4FF●	024	035	048	060	070	110	125	220	250	440

[39] Provided per pole: 2 fixed contacts, 1 movable contact, 2 deflectors, 1 backplate, and the mounting screws and washers.
[40] Complete the catalog number by adding the suffix (for example, LX1FF020).
[41] The 600 V coils for Sizes 6 and 7 do not include an auxiliary contact for holding circuits. If required, select the appropriate contacts from page 5.
[42] Complete the catalog number by adding the suffix (for example, LX4FF024).

TeSys N Non-Reversing Contactors

Table 32: TeSys N Contactors, Size 00–1, Non-Reversing *[43]*

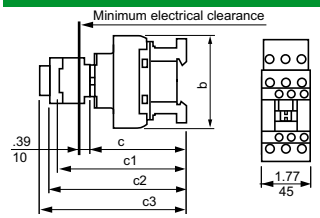
Dimensional Diagram	Dimension	Description	Dimensions			
			AC Coil		DC Coil	
			in.	mm	in.	mm
	b	Without add-on accessories	3.35	85	3.35	85
	b1	With LAD4BB	3.86	98	n/a	n/a
		With LA4D•2	4.49	114	n/a	n/a
		With LA4DF, DT	4.84	123	n/a	n/a
		With LA4DR, DW, DL	5.12	130	n/a	n/a
	c	Without cover or add-on blocks	3.54	90	3.90	99
		With cover, without add-on blocks	3.62	92	3.98	101
	c1	With LADN or LADC	4.84	123	5.20	132
	c2	With LAD6K10	5.31	135	5.67	144
	c3	With LADT, R, S	5.63	143	5.98	152
		With LADT, R, S and sealing cover	5.79	147	6.14	156

Table 33: TeSys N Contactors, Size 2, Non-Reversing *[43]*

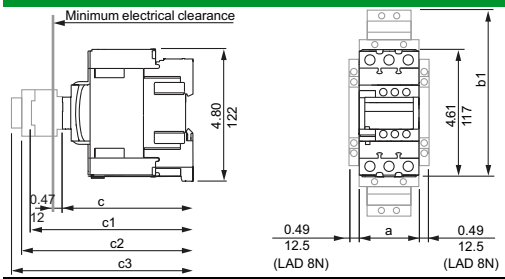
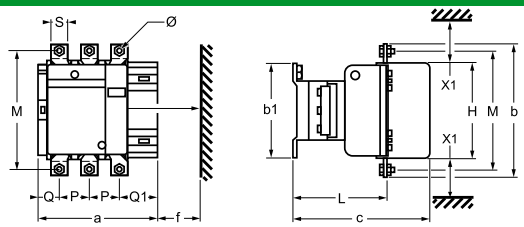
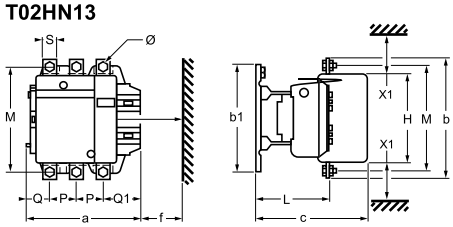
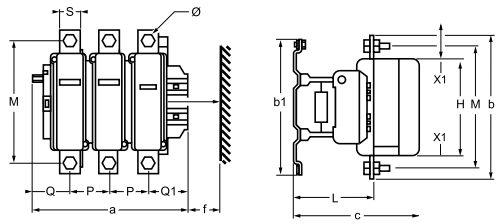
Dimensional Diagram	Dimension	Description	Dimensions AC or DC Coils	
			in.	mm
	a		2.17	55
	b1	With LA4 DB3 or LAD 4BB3	5.35	136
		With LA4 DF, DT	6.18	157
		With LA4 DM, DW, DL	6.54	166
	c	Without cover or add-on blocks	4.65	118
		With cover, without add-on blocks	4.72	120
	c1	With LAD N or C (2 or 4 contacts)	5.91	150
	c2	With LAD 6K10 or LA6 DK	6.42	163
	c3	With LAD T, R, S	6.73	171
		With LAD T, R, S and sealing cover	6.89	175

Table 34: TeSys N Contactors, Size 3–7, Non-Reversing

Dimensional Diagram, Size 3–5	Dimension	Dimensions T02EN13		T02FN13		T02GN13	
		in.	mm	in.	mm	in.	mm
T02EN13 **T02FN13** **T02GN13** 	a	6.4	163.5	6.4	163.5	8.4	213
	P	1.5	37	1.6	40	1.9	48
	Q	1.2	29.5	1	26	1.7	43
	Q1	2.4	60	2.3	57.5	2.9	74
	S	0.8	20	0.8	20	1	25
	ø	M6		M8		M10	
	f	5.2	131	5.2	131	5.8	147
	b	6.4	162	6.7	170	8.1	206
	b1	5.4	137	5.4	137	5.7	145
	M	5.8	147	5.9	150	7.1	181
	H	4.9	124	4.9	124	6.2	158
	c	6.7	171	6.7	171	8.6	219
	L	4.2	107	4.2	107	5.7	145
	X1 220–500 V	0.4	10	0.4	10	0.4	10

Dimensional Diagram, Size 6	Dimension	T02HN13	
		in.	mm
T02HN13 	a	9.2	233
	P	2.2	55
	Q	1.8	46
	Q1	3	77
	S	1.2	30
	ø	M10	
	f	5.9	150
	b	9.4	238
	b1	8.2	209
	M	8.2	208
	H	6.8	172
	c	9.1	232
	L	5.7	146
	X1 220–500 V	0.6	15

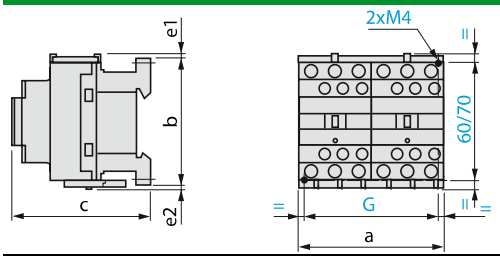
Dimensional Diagram, Size 7	Dimension	T02JN13	
		in.	mm
T02JN13 	a	12.2	309
	P	3.2	80
	Q	2.4	60
	Q1	3.5	89
	S	1.6	40
	ø	M12	
	f	7.1	181
	b	12	304
	b1	11	280
	M	10.4	264
	H	8	202
	c	10	255
	L	6.1	155
	X1 220–500 V	0.8	20

[43] DIN rail and panel mountable.

TeSys N Reversing Contactors

Table 35: TeSys N Size 00–1, Reversing Contactors *[44]*

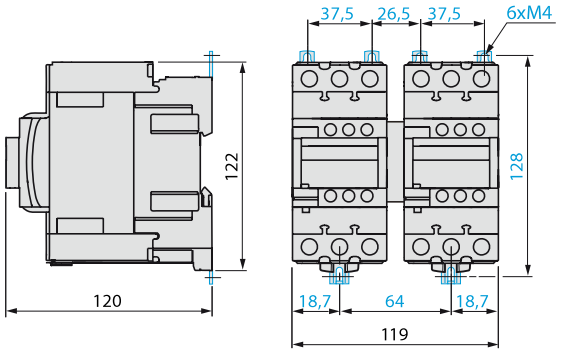
Dimensional Diagram



Dimension	Dimensions			
	AC Coil		DC Coil	
	in.	mm	in.	mm
a: Without side-mount accessories	3.54	90	3.54	90
b: Contactor base	3.35	85	3.35	85
c: With cover, without add-on blocks	3.62	92	3.98	101
e1	0.35	9	0.35	9
e2	0.20	5	0.20	5
G: Mounting holes	3.15	80	3.15	80

Table 36: TeSys N Size 2, Reversing Contactors *[44]*

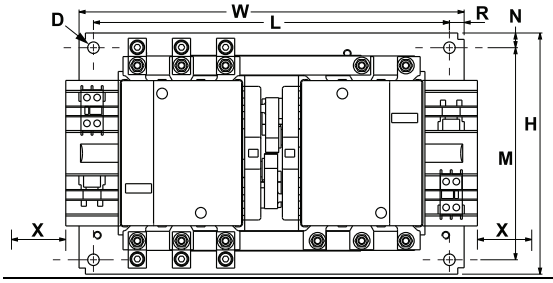
Dimensional Diagram



Description	Dimensions	
	AC and DC Coils	
	in.	mm
Width	4.69	119
Height	4.80	122
Depth with cover, without add-on blocks	4.72	120
Load side mounting hole width	2.52	64
Line side mounting hole width	3.40	101.5
Mounting hole height	5.04	128

Table 37: TeSys N Size 3–7, Reversing Contactors

Dimensional Diagram



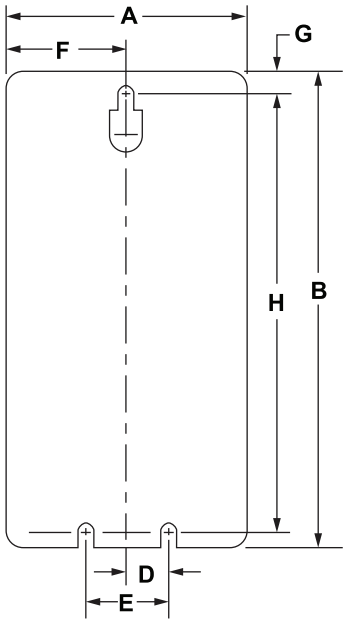
Dimension	Dimensions									
	T02EN23		T02FN23		T02GN23		T02HN23		T02JN23	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
D	0.38	9.7	0.38	9.7	0.56	14.2	0.56	14.2	0.56	14.2
H	7.96	202.2	7.96	202.2	15.27	387.9	15.27	387.9	22.25	565.2
L	11.75	298.5	11.75	298.5	18	457.2	18	457.2	30	762.0
M	7	177.8	7	177.8	14	355.6	14	355.6	19.75	501.7
N	0.49	12.5	0.49	12.5	0.62	15.8	0.62	15.8	1.25	31.8
R	0.49	12.5	0.49	12.5	0.62	15.8	0.62	15.8	0.69	17.5
W	12.71	322.8	12.71	322.8	19.27	489.5	19.27	489.5	31.38	797.0
X	5.16	131.0	5.16	131.0	5.79	147.0	5.91	150.0	7.13	181.0

[44] DIN rail and panel mountable.

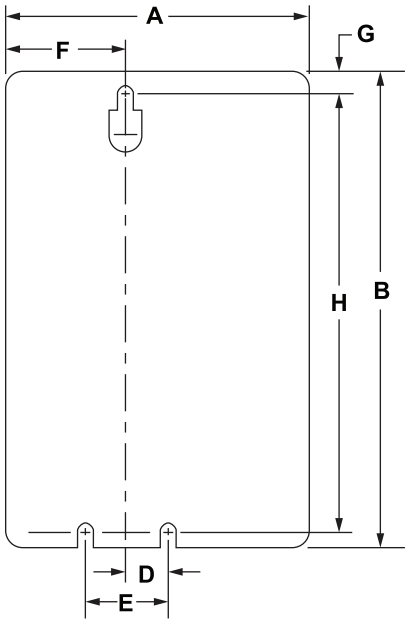
TeSys N Starters, Size 00–2

Table 38: TeSys N Size 00–2 Dimensions

Non-reversing
T36AN13 / T36BN13 / T36CN13 / T36DN13



Reversing
T36AN23 / T36BN23 / T36CN23 / T36DN23



Depth

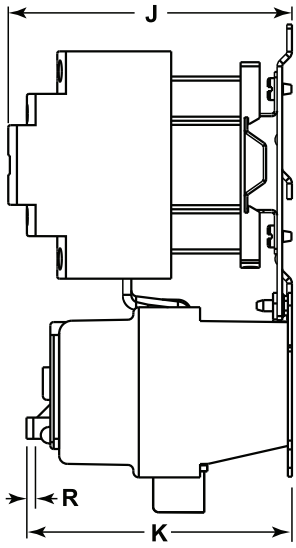


Table 39: TeSys N Size 00–2, Non-Reversing and Reversing Starters

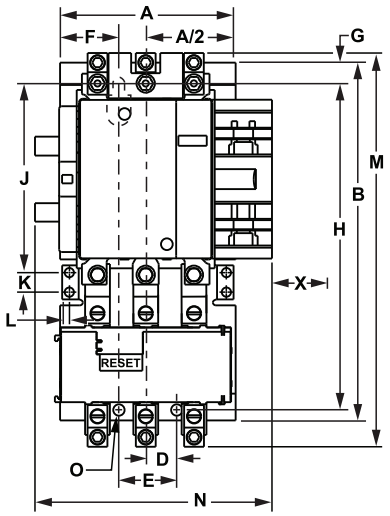
Dimension	Non-Reversing								Reversing							
	Size 00 T36AN13		Size 0 T36BN13		Size 1 T36CN13		Size 2 T36DN13		Size 00 T36AN23		Size 0 T36BN23		Size 1 T36CN23		Size 2 T36DN23	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
A	3.19	81.0	3.19	81.0	3.19	81.0	3.19	81.0	43.9	111.5	43.9	111.5	43.9	111.5	5.19	131.8
B	6.64	168.7	6.64	168.7	6.64	168.7	8.61	218.7	6.64	168.7	6.64	168.7	6.64	168.7	8.61	218.7
D	0.5	12.7	0.5	12.7	0.5	12.7	0.5	12.7	0.5	12.7	0.5	12.7	0.5	12.7	0.5	12.7
E	1.0	25.4	1.0	25.4	1.0	25.4	1.0	25.4	1.0	25.4	1.0	25.4	1.0	25.4	1.0	25.4
F	1.59	40.5	1.59	40.5	1.59	40.5	1.59	40.5	1.59	40.5	1.59	40.5	1.59	40.5	1.59	40.5
G	0.20	5.2	0.20	5.2	0.20	5.2	0.20	5.2	0.20	5.2	0.20	5.2	0.20	5.2	0.20	5.2
H	6.16	156.5	6.16	156.5	6.16	156.5	8.22	208.8	6.16	156.5	6.16	156.5	6.16	156.5	8.22	208.8
J (AC Coil)	4.17	105.9	4.17	105.9	4.17	105.9	4.94	125.4	4.17	105.9	4.17	105.9	4.17	104.9	4.94	125.4
J (DC Coil)	4.52	114.9	4.52	114.9	4.52	114.9			4.52	114.9	4.52	114.9	4.52	114.9		
K	3.90	99.0	3.90	99.0	3.90	99.0	3.90	99.0	3.90	99.0	3.90	99.0	3.90	99.0	3.90	99.0
R[45]	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1

[45] Reset travel.

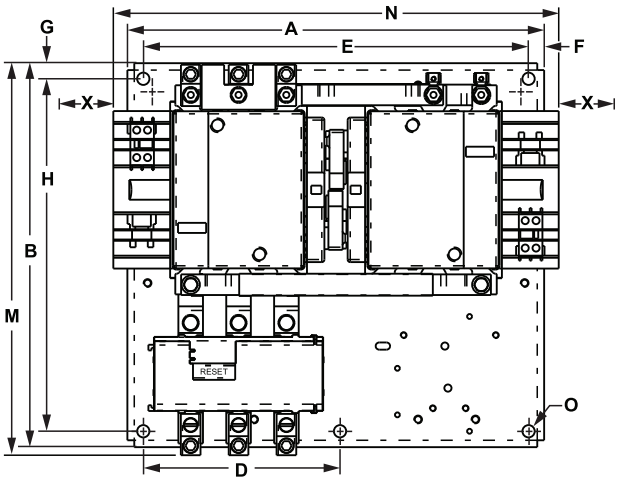
TeSys N Starters, Size 3–4

Table 40: TeSys N Size 3–4 Dimensions

Non-Reversing
T36EN13 / T36FN13



Reversing
T36EN23 / T36FN23



Depth

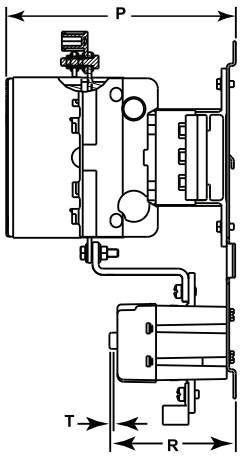


Table 41: TeSys N Size 3–4, Non-Reversing and Reversing Starters

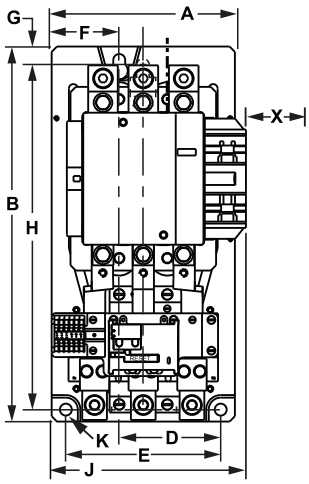
Dimension	Non-Reversing				Reversing			
	Size 3 T36EN13		Size 4 T36FN13		Size 3 T36EN23		Size 4 T36FN23	
	in.	mm	in.	mm	in.	mm	in.	mm
A	5.31	134.9	5.31	134.9	12.71	322.8	12.71	322.8
B	10.82	274.8	10.82	274.8	11.71	297.4	11.71	297.4
D	0.88	22.4	0.88	22.4	6.0	152.4	6.0	152.4
E	1.75	44.5	1.75	44.5	11.75	298.5	11.75	298.5
F	1.78	45.0	1.78	45.0	0.48	12.2	0.48	12.2
G	0.32	8.1	0.32	8.1	0.48	12.2	0.48	12.2
H	10.19	258.8	10.19	258.8	10.75	273.1	10.75	273.1
J	6.03	153.2	6.03	153.2	—	—	—	—
K	0.59	15.0	0.59	15.0	—	—	—	—
L	0.22	5.6	0.22	5.6	—	—	—	—
M	11.91	302.4	11.91	302.4	11.96	303.8	11.96	303.8
N	6.57	166.8	6.57	166.8	13.58	344.9	13.58	344.9
O	0.375	9.5	0.375	9.5	0.375	9.5	0.375	9.5
P	6.96	176.7	6.96	176.7	7.18	182.4	7.18	182.4
R	3.8	97	3.8	97	3.8	97	3.8	97
T[46]	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1
X[47]	5.16	131.0	5.16	131.0	5.16	131.0	5.16	131.0

[46] Reset travel.
[47] Minimum distance for coil removal.

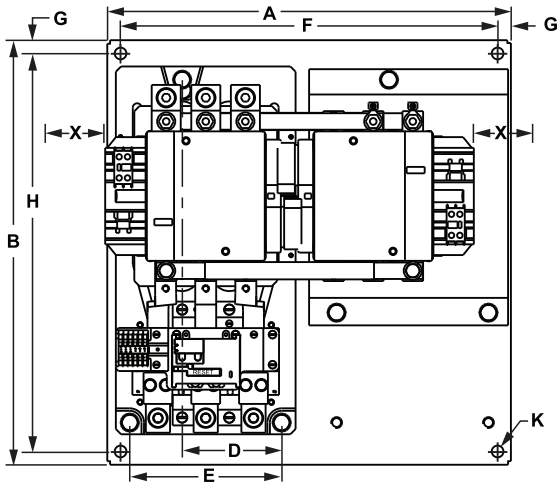
TeSys N Starters, Size 5–7

Table 42: TeSys N Size 5–7 Dimensions

Non-reversing
T36GN13 / T36HN13 / T36JN13



Reversing
T36GN23



Depth

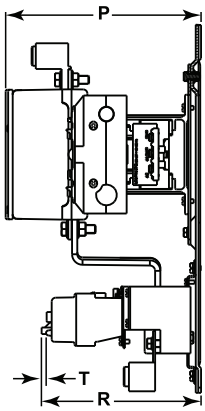


Table 43: TeSys N Size 5–7, Non-Reversing and Reversing Starters

Dimension	Non-Reversing						Reversing	
	Size 5 T36GN13		Size 6 T36HN13		Size 7 T36JN13		Size 5 T36GN23	
	in.	mm	in.	mm	in.	mm	in.	mm
A	8.58	217.9	8.58	217.9	8.58	217.9	19.3	489.4
B	17.56	446.0	19.75	501.7	23.58	598.9	20.3	514.8
D	4.75	120.7	4.75	120.7	4.75	120.7	4.75	120.7
E	7.25	184.2	7.25	184.2	7.25	184.2	7.25	184.2
F	3.17	80.4	3.17	80.4	3.17	80.4	18.0	457.2
G	0.63	16.0	0.63	16.0	0.63	16.0	0.63	16.1
H	16.37	415.8	18.56	463.6	22.38	565.9	19.0	482.6
J	9.91	251.6	9.91	251.6	9.91	251.6	—	—
K	0.56	14.2	0.56	14.2	0.56	14.2	0.56	14.2
P	9.32	236.8	9.32	236.8	9.32	236.8	9.95	252.7
R	7.38	187.0	9.16	232.7	8.07	205.0	7.38	187.0
T[48]	0.24	6.1	0.24	6.1	0.24	6.1	0.24	6.1
X[48]	5.79	147 1	5.91	150.1	7.13	181.1	5.79	147.1

[48] Minimum distance for coil removal.

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