

# Insta-Kits: IEC Enclosed Starters

## Catalog

Helping you easily select the right product

8100CT1901



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# TeSys™ D Enclosed LE Starters: Catalog No. Interpretation

**Table 1 - Catalog Number Interpretation for LE Starter Family**

Starter Family	Type	Contact- tor Size	Line Protection	Protection Size	Enclosure Type	Wiring Type	Line/CCT Primary	Coil	Fre- quency	Overload Type	Overload						
LE	1 FVNR	D09 7.5 HP @ 600 V	3 Without Line Protection	A NONE	6 Type 1	0 Contactor Only No Provision for Overload Reset Button Not Included	O No Control Transformer	B 24 V	7 50/60 HZ	0 No Overload	01 0.1 to 0.16 A						
	2 FVR	D12 10 HP @ 600 V		B FC 30 A							02 0.16 to 0.25 A						
											03 0.25 to 0.40 A						
	D18 15 HP @ 600 V	D25 20 HP @ 600 V	8 Fused Flange Handle	C FC 60 A	7 Type 12	1 Hard Wired No Universal Plug	X 600 V with Control Transformer	G 120 V	06 1.0 to 1.7 A	07 1.6 to 2.5 A	08 2.5 to 4 A	04 0.40 to 0.63 A					
												D32 25 HP @ 600 V	D FC 100 A	05 0.63 to 1.0 A			
				D40 30 HP @ 600 V										E FC 200 A CB 30 A	06 1.0 to 1.7 A		
												D50 40 HP @ 600 V	F FC 400 A CB 50 A		07 1.6 to 2.5 A		
				D65 50 HP @ 600 V										9 with MCP 600 V Max. Flanged Handle	GFC 600 A CB 100 A	08 2.5 to 4 A	
												D80 60 HP @ 600 V	HFC 800 A CB 150 A			09 4 to 6 A	
				D11 75 HP @ 600 V										1 Class 10	M 220/240 V with Control Transformer	M 220/ 240 V	Contact Sales Office for DC
												D15 100 HP @ 600 V	L 208 V with Control Transformer				
				N/A										2 Class 20	L 208 V with Control Transformer	T 480 V	Contact Sales Office for DC
												G 120 V with Control Transformer	X 600 V				
	L 208 V with Control Transformer	T 480 V	14 7 to 10 A														
			G 120 V with Control Transformer		X 600 V	15 9 to 13 A											
	L 208 V with Control Transformer	T 480 V				16 9 to 13 A											
			G 120 V with Control Transformer		X 600 V	17 12 to 18 A											
	L 208 V with Control Transformer	T 480 V				18 12 to 18 A											
			G 120 V with Control Transformer		X 600 V	19 16 to 25 A											
	L 208 V with Control Transformer	T 480 V		20 16 to 25 A													
			G 120 V with Control Transformer	X 600 V	21 12 to 18 A												
	L 208 V with Control Transformer	T 480 V			22 16 to 25 A												
G 120 V with Control Transformer			X 600 V	23 23 to 32 A													
	L 208 V with Control Transformer	T 480 V		24 23 to 32 A													
G 120 V with Control Transformer			X 600 V	25 30 to 80 A													
	L 208 V with Control Transformer	T 480 V		26 23 to 32 A													
G 120 V with Control Transformer			X 600 V	27 30 to 40 A													
	L 208 V with Control Transformer	T 480 V		28 30 to 40 A													
G 120 V with Control Transformer			X 600 V	29 37 to 50 A													
	L 208 V with Control Transformer	T 480 V		30 48 to 65 A													
G 120 V with Control Transformer			X 600 V	31 37 to 50 A													
	L 208 V with Control Transformer	T 480 V		32 48 to 65 A													
G 120 V with Control Transformer			X 600 V	33 55 to 70 A													
	L 208 V with Control Transformer	T 480 V		34 55 to 70 A													
G 120 V with Control Transformer			X 600 V	35 63 to 80 A													
	L 208 V with Control Transformer	T 480 V		36 63 to 80 A													
G 120 V with Control Transformer			X 600 V	37 80 to 104 A													
	L 208 V with Control Transformer	T 480 V		38 80 to 104 A													
G 120 V with Control Transformer			X 600 V	39 95 to 120 A													
	L 208 V with Control Transformer	T 480 V		40 95 to 120 A													
G 120 V with Control Transformer			X 600 V	41 110 to 140 A													
	L 208 V with Control Transformer	T 480 V		42 110 to 140 A													
G 120 V with Control Transformer			X 600 V	43 132 to 220 A													
	L 208 V with Control Transformer	T 480 V		44 132 to 220 A													
G 120 V with Control Transformer			X 600 V	45 200 to 330 A													
	L 208 V with Control Transformer	T 480 V		46 200 to 330 A													
G 120 V with Control Transformer			X 600 V	47 300 to 500 A													
	L 208 V with Control Transformer	T 480 V		48 300 to 500 A													
G 120 V with Control Transformer			X 600 V	49 380 to 630 A													
	L 208 V with Control Transformer	T 480 V		50 380 to 630 A													

# Enclosed TeSys™ D Starters



LE1D093A62OB70

TeSys D enclosed full-voltage starters are available in Type 1 and Type 12/3R enclosures. The enclosed TeSys D offer accepts standard TeSys D accessories and all Insta-Kits control units and control power transformer kits. Standard capacity control power transformers with built-in fuse block can be installed in the standard enclosure. For extra capacity, please refer to your local distributor or Schneider Electric sales office.

**Table 2 - Insta-Kits™ for Enclosed Full Voltage Non-Reversing Starters<sup>1</sup>**

Max. Horsepower Ratings						Auxiliary Contacts On Each Contactor		Current Rating of Contactor	Catalog Number <sup>23</sup>	
Single-Phase		Three-Phase							Type 1	Type 12/3R
120 V	240 V	208 V	230 V	460 V	575 V	N.O.	N.C.			
1/3	1	2	2	5	7.5	1	1	9	LE1D093A62O****	LE1D093A72O****
1/2	2	3	3	7.5	10	1	1	12	LE1D123A62O****	LE1D123A72O****
1	3	5	5	10	15	1	1	18	LE1D183A62O****	LE1D183A72O****
2	3	5	7.5	15	20	1	1	25	LE1D253A62O****	LE1D253A72O****
2	5	7.5	10	20	25	1	1	32	LE1D323A62O****	LE1D323A72O****
3	5	10	10	30	30	1	1	40	LE1D403A62O****	LE1D403A72O****
3	7.5	15	15	40	40	1	1	50	LE1D503A62O****	LE1D503A72O****
5	10	20	20	40	50	1	1	65	LE1D653A62O****	LE1D653A72O****
7.5	15	25	30	60	60	1	1	80	LE1D803A62O****	LE1D803A72O****
—	—	30	40	75	75	1	1	115	LE1D113A62O****	LE1D113A72O****
—	—	40	50	100	100	1	1	150	LE1D153A62O****	LE1D153A72O****

1. Insta-kit design available in Type 1 and Type 12 enclosures only.

2. To obtain a single phase non-reversing starter, change prefix LE1 to LES. (e.g., LE1D093A62O\*\*\*\* becomes LESD093A62O\*\*\*\*). Price remains unchanged.

3. Replace (\*\*\*\*) with the corresponding coil voltage code from *Table 4, page 7* followed by the corresponding O/L relay suffix number from *Table 5, page 7*.

**Table 3 - Insta-Kits for Enclosed Full Voltage Reversing Starters<sup>4</sup>**

Max. Horsepower Ratings						Auxiliary Contacts On Each Contactor		Current Rating of Contactor	Catalog Number <sup>56</sup>	
Single-Phase		Three-Phase							Type 1	Type 12/3R
120 V	240 V	208 V	230 V	460 V	575 V	N.O.	N.C.			
1/3	1	2	2	5	7.5	1	1	9	LE2D093A62O****	LE2D093A72O****
1/2	2	3	3	7.5	10	1	1	12	LE2D123A62O****	LE2D123A72O****
1	3	5	5	10	15	1	1	18	LE2D183A62O****	LE2D183A72O****
2	3	5	7.5	15	20	1	1	25	LE2D253A62O****	LE2D253A72O****
2	5	7.5	10	20	25	1	1	32	LE2D323A62O****	LE2D323A72O****
3	5	10	10	30	30	1	1	40	LE2D403A62O****	LE2D403A72O****
3	7.5	15	15	40	40	1	1	50	LE2D503A62O****	LE2D503A72O****
5	10	20	20	40	50	1	1	65	LE2D653A62O****	LE2D653A72O****
7.5	15	25	30	60	60	1	1	80	LE2D803A62O****	LE2D803A72O****
—	—	30	40	75	75	1	1	115	LE2D113A62O****	LE2D113A72O****
—	—	40	50	100	100	1	1	150	LE2D153A62O****	LE2D153A72O****

**Table 4 - Voltage Codes for Enclosed Starters**

Primary Voltage	24	120	208	220	240	480	600
Code	B7	G7	L7	M7	U7	T7	X7

**Table 5 - Overload Relay Range (Select code from below) <sup>7</sup>**

Code	Range	For use on Contactors
01	0.1–0.16	D09–D32 <sup>8</sup>
02	0.16–0.25	D09–D32 <sup>8</sup>
03	0.25–0.40	D09–D32 <sup>8</sup>
04	0.40–0.63	D09–D32 <sup>8</sup>
05	0.63–1.0	D09–D32 <sup>8</sup>
06	1.0–1.6	D09–D32 <sup>8</sup>
07	1.6–2.5	D09–D32 <sup>8</sup>
08	2.5–4	D09–D32
10	4–6	D09–D32
12	5.5–8	D09–D32
13	9–13	D40, D50, D65
14	7–10	D09–D32
16	9–13	D12–D32
18	12–18	D40, D50, D65
21	12–18	D18–D32
22	16–24	D25–D32 <sup>8</sup>

4. Insta-kit design available in Type 1 and Type 12 enclosures only.

5. To obtain a single phase non-reversing starter, change prefix LE2 to LER. (e.g., LE2D093A62O\*\*\*\* becomes LERD093A62O\*\*\*\*). For use on single phase application, connect a power cable between terminals T3 on O/L relay and L2 on contactor.

6. Replace (\*\*\*\*) with the corresponding coil voltage code from *Table 4, page 7* followed by the corresponding O/L relay suffix number from *Table 5, page 7*.

7. If no overload relay is required, leave this portion of the catalog blank.

8. Available for Class 10 only.

**Table 5 - Overload Relay Range (Select code from below) <sup>5</sup> - (Continued)**

Code	Range	For use on Contactors
	17–25	D25–D32 <sup>9</sup>
	17–25	D80
25	17–25	D40, D50, D65
30	23–28	D25–D32 <sup>10</sup>
32	23–32	D25–D32
32	23–32	D40, D50, D65
40	30–40	D40, D50, D65
50	37–50	D40, D50, D65
53	30–38	D80
55	30–40	D80
57	37–50	D80
59	48–65	D80
61	55–70	D65–D80
63	63–80	D65–D80
65	48–65	D40, D50, D65

**Table 6 - Catalog Number Nomenclature**

Catalog Number Example					
LE1D093A62	O	G	7	1	07
Base Catalog No.	Control Power Transformer (Primary Voltage) <sup>11</sup>	Contactors/Starter Coil Voltage	Coil Frequency	Overload Relay Type	Overload Relay Range
See Table 2, page 6 or Table 3, page 7	None = O <sup>12</sup> 208 V = L 240 V = M 480 V = T 600 V = X	24 Vac/Vdc = B 120 Vac = G 208 Vac = L 240 Vac = U 480 Vac = T 600 Vac = X	7 = dual (50/60 Hz) 6 = 60 Hz. D=DC <sup>13</sup>	0 = None 1 = Class 10 Trip 2 = Class 20 Trip	See Table 5, page 7

TeSys D dimensions: See *Digest 178, Section 18*

9. Available for Class 20 only.

10. Available for Class 10 only.

11. If a control transformer is used, the only options available are 24 or 120 V as the secondary of the transformer. Also, DC voltages are not available when control power transformer is used.

12. Letter O, not zero.

13. For 9–65 A contactors, only dual frequency coils are available; for 80 A contactors, the 24–240 V coils are dual frequency only (50/60 Hz). The 480–600 V coils are 60 Hz. only. See catalog **MKTED210011EN** for other restrictions.



# TeSys™ D Enclosed—Fusible, Circuit Breaker, and Non-Fusible



LE1D096B62OU70

IEC combination starters combine the requirements of motor overload and short circuit protection in one convenient compact package. All devices provide Type 2 Coordination through 30 hp at 460 V. Devices are available in Type 1 and Type 12/3R enclosures. The IEC combination starter line accepts standard TeSys D accessories and all Insta-Kits pilot devices and control power transformer kits. Standard capacity control power transformers with built-in fuse block can be installed in the standard enclosure. For extra capacity, please refer to your local distributor or nearest Square D/Schneider Electric sales office.

**NOTE:** Use tables and notes from *Enclosed TeSys™ D Starters*, page 6 to complete the catalog numbers.

**Table 7 - Enclosed Full Voltage Non-Reversing Fusible Combination Starters<sup>14</sup>**

Maximum Three-Phase Horsepower Ratings				Fuse Clip Rating		Auxiliary Contacts		Current Rating of Contactor	Catalog Number <sup>15 16</sup>	
208 V	230 V	460 V	575 V	Amperes	UL Class	N.O.	N.C.		Type 1	Type 12/3R
2	2	5	7.5	30 A	J	1	1	9	LE1D098B62O●●●●	LE1D098B72O●●●●
3	3	7.5	10	30 A	J	1	1	12	LE1D128B62O●●●●	LE1D128B72O●●●●
5	5	10	15	30 A	J	1	1	18	LE1D188B62O●●●●	LE1D188B72O●●●●
7.5	7.5	15	20	60 A	J	1	1	25	LE1D258C62O●●●●	LE1D258C72O●●●●
10	10	20	25	60 A	J	1	1	32	LE1D328C62O●●●●	LE1D328C72O●●●●
10	10	30	30	60 A	J	1	1	40	LE1D408C62O●●●●	LE1D408C72O●●●●
15	15	40	40	100 A	J	1	1	50	LE1D508D62O●●●●	LE1D508D72O●●●●
20	20	40	50	100 A	J	1	1	65	LE1D658D62O●●●●	LE1D658D72O●●●●
25	30	60	60	200 A	J	1	1	80	LE1D808E62O●●●●	LE1D808E72O●●●●
30	40	75	75	200 A	J	1	1	115	LE1D118E62O●●●●	LE1D118E72O●●●●
40	50	100	100	200 A	J	1	1	150	LE1D158E62O●●●●	LE1D158E72O●●●●

14. Insta-kit design available in Type 1 and Type 12 enclosures only.

15. Replace (●●●●) with the corresponding coil voltage code from *Table 4*, page 7 followed by the corresponding O/L relay suffix number from *Table 5*, page 7.

16. For fuse clips different from the ones proposed, specify your requirement using *Table 1*, page 5.

**Table 8 - Enclosed Full Voltage Reversing Fusible Combination Starters<sup>17</sup>**

Maximum Three-Phase Horsepower Ratings				Fuse Clip Rating		Aux. Contacts Each Contactor		Current Rating of Contactor	Catalog Number <sup>18 19</sup>	
200 V	230 V	460 V	575 V	Amperes	UL Class	N.O.	N.C.		Type 1	Type 12/3R
2	2	5	7.5	30 A	J	1	1	9	LE2D098B62O●●●●	LE2D098B72O●●●●
3	3	7.5	10	30 A	J	1	1	12	LE2D128B62O●●●●	LE2D128B72O●●●●
5	5	10	15	30 A	J	1	1	18	LE2D188B62O●●●●	LE2D188B72O●●●●
7.5	7.5	15	20	60 A	J	1	1	25	LE2D258C62O●●●●	LE2D258C72O●●●●
10	10	20	25	60 A	J	1	1	32	LE2D328C62O●●●●	LE2D328C72O●●●●
10	10	30	30	60 A	J	1	1	40	LE2D408C62O●●●●	LE2D408C72O●●●●
15	15	40	40	100 A	J	1	1	50	LE2D508D62O●●●●	LE2D508D72O●●●●
20	20	40	50	100 A	J	1	1	65	LE2D658D62O●●●●	LE2D658D72O●●●●
25	30	60	60	200 A	J	1	1	80	LE2D808E62O●●●●	LE2D808E72O●●●●
30	40	75	75	200 A	J	1	1	115	LE2D118E62O●●●●	LE2D118E72O●●●●
40	50	100	100	200 A	J	1	1	150	LE2D158E62O●●●●	LE2D158E72O●●●●

**Table 9 - Enclosed Full Voltage Non-Reversing Circuit Breaker Combination Starters<sup>17</sup>**

Maximum Three-Phase Horsepower Ratings				Auxiliary Contacts		Circuit Breaker Maximum Current Rating	Current Rating of Contactor	Catalog Number <sup>18 19</sup>	
200 V	230 V	460 V	575 V	N.O.	N.C.			Type 1	Type 12/3R
2	2	5	7.5	1	1	30 A	9	LE1D099E62O●●●●	LE1D099E72O●●●●
3	3	7.5	10	1	1	30 A	12	LE1D129E62O●●●●	LE1D129E72O●●●●
7.5	7.5	15	20	1	1	30 A	25	LE1D259E62O●●●●	LE1D259E72O●●●●
7.5	10	20	25	1	1	50 A	32	LE1D329F62O●●●●	LE1D329F72O●●●●
10	10	30	30	1	1	50 A	40	LE1D409F62O●●●●	LE1D409F72O●●●●
15	15	40	40	1	1	100 A	50	LE1D509G62O●●●●	LE1D509G72O●●●●
20	20	40	50	1	1	100 A	65	LE1D659G62O●●●●	LE1D659G72O●●●●
25	30	60	60	1	1	150 A	80	LE1D809G62O●●●●	LE1D809G72O●●●●
30	40	75	75	1	1	200 A	115	LE1D119H62O●●●●	LE1D119H72O●●●●
40	50	100	100	1	1	200 A	150	LE1D159J62O●●●●	LE1D159J72O●●●●

**Table 10 - Enclosed Full Voltage Reversing Circuit Breaker Combination Starters<sup>17</sup>**

Maximum Three-Phase Horsepower Ratings				Auxiliary Contacts Each Contactor		Circuit Breaker Maximum Current Rating	Current Rating of Contactor	Catalog Number <sup>18 19</sup>	
200 V	230 V	460 V	575 V	N.O.	N.C.			Type 1	Type 12/3R
2	2	5	7.5	1	1	30 A	9	LE2D099E62O●●●●	LE2D099E72O●●●●
3	3	7.5	10	1	1	30 A	12	LE2D129E62O●●●●	LE2D129E72O●●●●
7.5	7.5	15	20	1	1	30 A	25	LE2D259E62O●●●●	LE2D259E72O●●●●
10	10	20	25	1	1	50 A	32	LE2D329F62O●●●●	LE2D329F72O●●●●

17. Insta-kit design available in Type 1 and Type 12 enclosures only.

18. Replace (●●●●) with the corresponding coil voltage code from *Table 4, page 7* followed by the corresponding O/L relay suffix number from *Table 5, page 7*.19. For a breaker size different from the ones proposed, specify your requirement using *Table 1, page 5*.

**Table 10 - Enclosed Full Voltage Reversing Circuit Breaker Combination Starters<sup>10</sup> - (Continued)**

Maximum Three-Phase Horsepower Ratings				Auxiliary Contacts Each Contactor		Circuit Breaker Maximum Current Rating	Current Rating of Contactor	Catalog Number <sup>20 21</sup>	
200 V	230 V	460 V	575 V	N.O.	N.C.			Type 1	Type 12/3R
10	10	30	30	1	1	50 A	40	LE2D409F62O●●●●	LE2D409F72O●●●●
15	15	40	40	1	1	100 A	50	LE2D509G62O●●●●	LE2D509G72O●●●●
20	20	40	50	1	1	100 A	65	LE2D659G62O●●●●	LE2D659G72O●●●●
25	30	60	60	1	1	150 A	80	LE2D809G62O●●●●	LE2D809G72O●●●●
30	40	75	75	1	1	200 A	115	LE2D119H62O●●●●	LE2D119H72O●●●●
40	50	100	100	1	1	200 A	150	LE2D159J62O●●●●	LE2D159J72O●●●●

**Table 11 - Enclosed Full Voltage Non-Reversing Non-Fused Combination Starters**

Maximum Three-Phase Horsepower Ratings				Auxiliary Contacts		Current Rating of Contactor	Catalog Number	
200 V	230 V	460 V	575 V	N.O.	N.C.		Type 1	Type 12/3R
2	2	5	7.5	1	1	9	LE1D096A62O●●●●	LE1D096A72O●●●●
3	3	7.5	10	1	1	12	LE1D126A62O●●●●	LE1D126A72O●●●●
5	5	10	15	1	1	18	LE1D186A62O●●●●	LE1D186A72O●●●●
5	7.5	15	20	1	1	25	LE1D256A62O●●●●	LE1D256A72O●●●●
7.5	10	20	25	1	1	32	LE1D326A62O●●●●	LE1D326A72O●●●●
10	10	30	30	1	1	40	LE1D406A62O●●●●	LE1D406A72O●●●●

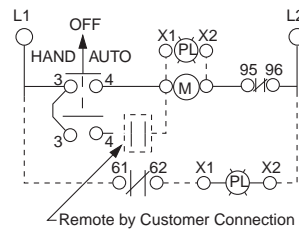
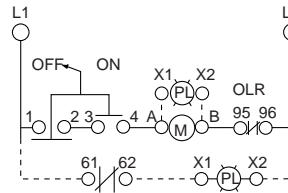
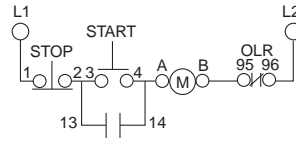
**Table 12 - Enclosed Full Voltage Reversing Non-Fused Combination Starters**

Maximum Three-Phase Horsepower Ratings				Aux. Contacts Each Contactor		Current Rating of Contactor	Catalog Number	
200 V	230 V	460 V	575 V	N.O.	N.C.		Type 1	Type 12/3R
2	2	5	7.5	1	1	9	LE2D096A62O●●●●	LE2D096A72O●●●●
3	3	7.5	10	1	1	12	LE2D126A62O●●●●	LE2D126A72O●●●●
5	5	10	15	1	1	18	LE2D186A62O●●●●	LE2D186A72O●●●●
5	7.5	15	20	1	1	25	LE2D256A62O●●●●	LE2D256A72O●●●●
7.5	10	20	25	1	1	32	LE2D326A62O●●●●	LE2D326A72O●●●●
10	10	30	30	1	1	40	LE2D406A62O●●●●	LE2D406A72O●●●●

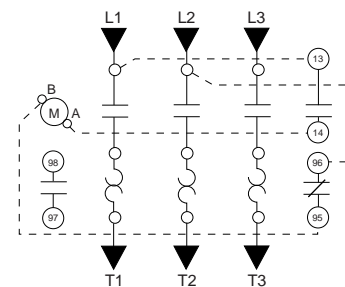
TeSys D dimensions: See *Digest 178, Section 18*20. Replace (●●●●) with the corresponding coil voltage code from *Table 4, page 7* followed by the corresponding O/L relay suffix number from *Table 5, page 7*.21. For a breaker size different from the ones proposed, specify your requirement using *Table 1, page 5*.

# Factory Modifications and Insta-Kits Selection

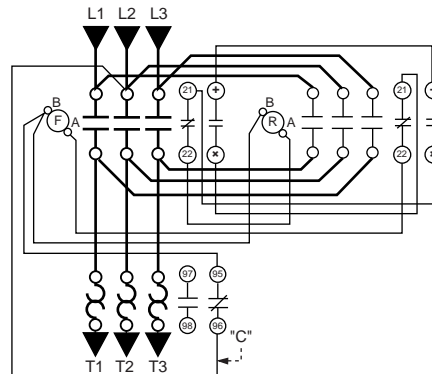
Add the factory modification code to the end of the catalog number created from *Table 2, page 6*. With the use of Insta-Kits, only one operator scheme is allowed. Only the combinations of operators and pilot lights shown below can be ordered. Pilot lights will be at the coil voltage indicated in the catalog number for the starter.



From top to bottom: Start/Stop, On - Off Selector Switch, HOA Selector Switch


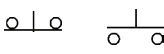





D-Line AC Magnetic Starter, 2-3 Pole



D-Line AC Magnetic Reversing Starter, 3-Pole

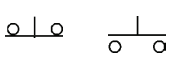
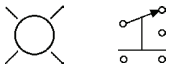
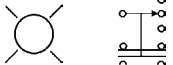
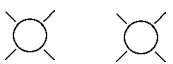
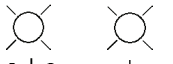
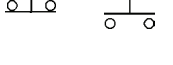
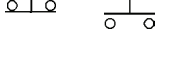
**Table 13 - Factory Modifications for One Operator on Cover**

Symbol	Description	Color	Nameplate	Assembly by	Suffix/Cat. No. <sup>22</sup>	
					NEMA Type 1	NEMA Type 12
	Push button, mushroom, 40 mm	Red	Emergency Stop	Factory	A06A	A07A
	Push button (double touch)	Black Red	I / O	Factory	A06I	A07I
				Field Installation	LA9CA06IO	LA9CA06IO
	2 Position selector switch	Black	Off - On	Factory	A06D	A07D
				Field Installation	LA9CA06DT	LA9CA06DT
	3 Position selector switch	Black	Hand - Off - Auto	Factory	A06E	A07E
				Field Installation	LA9CA06ET	LA9CA06ET
	Pilot light (direct)	Green	Power On	Factory	A06S	A07S
				Field Installation	LA9CA06ST	LA9CA06ST
	Pilot light (transformer type)	Green	Power On	Factory	A06F	A07F
				Field Installation	LA9CA06FT● <sup>23</sup>	LA9CA06FT● <sup>23</sup>
	Pilot light (LED type)	Green	Power On	Factory	A16S	A17S
				Field Installation	LA9CA16ST● <sup>23</sup>	LA9CA16ST● <sup>23</sup>

22. Catalog numbers beginning with LA9 are only for starters with a "2" before the voltage code. When using a factory option that does not have a corresponding customer kit, the 10th digit of the starter must change from a "2" to a "1".

23. Replace (●) with coil voltage code corresponding to the pilot light voltage in *Table 16, page 15*.


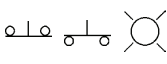
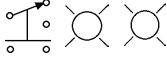
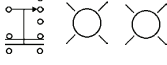
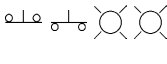
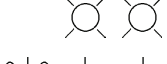
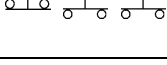
**Table 14 - Factory Modifications for Two Operators on Cover**

Symbol	Description	Color	Nameplate	Assembly by	Suffix/Cat. No. <sup>24</sup>	
					NEMA Type 1	NEMA Type 12
	2 Push buttons	Green	Start	Factory	A06G	A07G
		Red	Stop	Field Installation	LA9CA06GT	LA9CA06GT
	2 Push buttons	Black	I	Factory	A06T	A07T
		Red	O	Field Installation	A06X	A07X
	2 Position selector switch, Pilot light (transformer type)	Black	Off	Factory	A06H	A07H
		Green	On	Field Installation	LA9CA06HT <sup>25</sup>	LA9CA06HT <sup>25</sup>
	2 Position selector switch, Pilot light (direct)	Black	Off - On	Factory	A06W	A07W
		Green	Power On	Field Installation	LA9CA06WT	LA9CA06WT
2 position selector switch, Pilot light (LED type)	Black	Off	Factory	A16W	A17W	
	Green	On	Field Installation	LA9CA16WT <sup>25</sup>	LA9-CA16WT <sup>25</sup>	
	3 Position selector switch, Pilot light (transformer type)	Black	Hand - Off - Auto	Factory	A06J	A07J
		Red/Green	Power On	Field Installation	LA9CA06JT <sup>25</sup>	LA9CA06JT <sup>25</sup>
	3 position selector switch, Pilot light (direct)	Black	Hand - Off - Auto	Factory	A06U	A07U
		Green	Power On	Field Installation	LA9CA06UT	LA9CA06UT
	3 position selector switch, Pilot light (LED type)	Black	Hand - Off - Auto	Factory	A16U	A17U
		Green	Power On	Field Installation	LA9CA16UT <sup>25</sup>	LA9CA16UT <sup>25</sup>
	2 pilot lights (transformer type)	Green	Start	Factory	A06K	A07K
	Red	Stop	Field Installation	A16K	A17K	
	2 LED type pilot lights	Green	Start	Factory	A26G	A27G
	Red	Stop	Field Installation	A56G	A57G	
	2 illuminated push buttons (direct)	Green	Start	Factory	A26G	A27G
	Red	Stop	Field Installation	A56G	A57G	
	2 LED type illuminated push buttons	Green	Start	Factory	A26G	A27G
	Red	Stop	Field Installation	A56G	A57G	

24. Catalog numbers beginning with LA9 are only for starters with a "2" before the voltage code. When using a factory option that does not have a corresponding customer kit, the 10th digit of the starter must change from a "2" to a "1".

25. Replace (●) with coil voltage code corresponding to the pilot light voltage in *Table 16, page 15*.

**Table 15 - Factory Modifications for Three Operators on Cover**

Symbol	Description	Color	Nameplate	Assembly by	Suffix/Cat. No. <sup>26</sup>	
					NEMA Type 1	NEMA Type 12
	3 Push buttons	Green Yellow Red	Forward Reverse Stop	Factory	A06L	A07L
				Field Installation	LA9CA06LT	LA9CA06LT
	2 Push buttons, Full voltage pilot	Green Red Green	Start Stop Power On	Factory	A06V	A07V
				Field Installation	LA9CA06VT	LA9CA06VT
	2 Push buttons, LED type pilot	Green Red Green	Start Stop Power On	Factory	A16V	A17V
				Field Installation	LA9CA16VT● <sup>27</sup>	LA9CA16VT● <sup>27</sup>
	2 Push buttons, Pilot light (transformer type)	Green Red Green	Start Stop Power On	Factory	A06N	A07N
				Field Installation	LA9CA06NT● <sup>27</sup>	LA9CA06NT● <sup>27</sup>
	2 Position selector switch, Pilot lights (transformer type)	Black Green Yellow	On - Off On Trip	Factory	A06P	A07P
				Field Installation	LA9CA16PT● <sup>27</sup>	LA9CA16PT● <sup>27</sup>
	2 Position selector switch, Pilot lights (LED type)	Black Green Yellow	On - Off On Trip	Factory	A16P	A17P
				Field Installation	LA9CA16PT● <sup>27</sup>	LA9CA16PT● <sup>27</sup>
	3 Position selector switch, Pilot lights (LED type)	Black Red Yellow	Hand - Off - Auto On Trip	Factory	A36Q	A37Q
				Field Installation	LA9CA36QT● <sup>27</sup>	LA9CA36QT● <sup>27</sup>
	3 Position selector switch, Pilot lights (LED type)	Black Green Yellow	Hand - Off - Auto On Trip	Factory	A16Q	A17Q
				Field Installation	LA9CA16QT● <sup>27</sup>	LA9CA16QT● <sup>27</sup>
	1 push button (double touch), 2 pilot lights (transformer type)	Green Red	I / O Start Stop	Factory	A06R	A07R
				Field Installation	LA9CA06RT● <sup>27</sup>	LA9CA06RT● <sup>27</sup>
	2 Illuminated push buttons (Transformer), 1 push button	Green Yellow Red	Forward Reverse Stop	Factory	A26L	A27L
				Field Installation	LA9CA26LT● <sup>27</sup>	LA9CA26LT● <sup>27</sup>
	2 Illuminated push buttons (LED), 1 push button	Green Yellow Red	Forward Reverse Stop	Factory	A56L	A57L
				Field Installation	LA9CA56LT● <sup>27</sup>	LA9CA56LT● <sup>27</sup>

**Table 16 - Voltage Codes for Pilot Lights<sup>28</sup>**

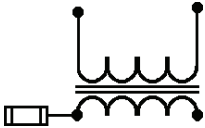
Voltage (Vac)	24	120	208/240	480	600
Code	B	G	M	T	X

26. Catalog numbers beginning with LA9 are only for starters with a “2” before the voltage code. When using a factory option that does not have a corresponding customer kit, the 10th digit of the starter must change from a “2” to a “1”.

27. Replace (●) with coil voltage code corresponding to the pilot light voltage in *Table 16, page 15*.

28. LED types are available for voltage codes B, G, and M only.

**Table 17 - Factory Modifications for Control Circuit Transformers**

Symbol	Description	VA	For Starter	Assembly by	NEMA Type 1 and 12 Suffix/Cat. No. <sup>29</sup>
	Full voltage starters (Standard VA capacity)	50	LE1, LE2, LES, LER	Factory	A206P
			D09 - D32	Field Installation	LA9TFD32● <sup>30</sup>
		100	D40 - D80	Factory	A206P
				Field Installation	LA9TFD80● <sup>30</sup>
		150	D115 - D150	Factory	A206P
				Field Installation	LA9TFD15● <sup>30</sup>
	Full voltage starters + 50 VA extra capacity	—	D09 - D80	Factory	A207P
			D11 - D15	Factory	A207P
	Full voltage starters, special primary or secondary voltage	—	D09 - D80	Factory	A209P
			D11 - D15	Factory	A209P

**Table 18 - Voltage Codes for Control Power Transformers**

Primary Voltage	120	208	240	480	600	208	240	480	600
Secondary Voltage	24 V					120 V			
Code	E	D	C	B	A	L	M	T	X

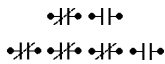


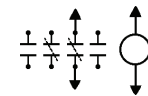
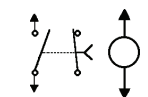
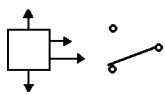
29. Catalog numbers beginning with LA9 are only for starters with a "2" before the voltage code. When using a factory option that does not have a corresponding customer kit, the 10th digit of the starter must change from a "2" to a "1".

30. Replace (●) with the corresponding suffix from *Table 18, page 16*.



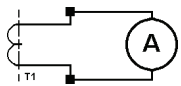
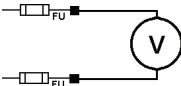
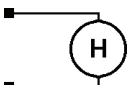
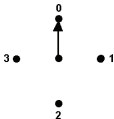

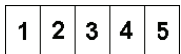
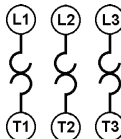
# Factory Modifications and Insta-Kits Selection for Control Circuits and Meters

**Table 19 - Factory Modifications for Control Circuits**

Symbol	Description	For Starter	Assembly by	NEMA Type 1 and 12 Suffix/Cat. No. 31
	Auxiliary contact block (terminals and wiring not included)	All listed	Factory	A200
			Field Installation	LADN11
			Factory	A400
			Field Installation	LADN22
	Auxiliary contact blocks on disconnect	NO or NC wired	Factory	A101
	Auxiliary contact blocks on instantaneous trip circuit interrupter	NO or NC unwired	Factory	A102
		NO or NC wired	Factory	A103
	Fuses for control circuit (terminals not included)	All listed	Factory	A104
			Factory	A105
			Factory	A106
	Control circuit relay	All listed	Factory	A111
			4 poles unwired (coil and 1 contact wired; terminals not included)	Factory
	Time delay relay	All listed	Factory	A113
			Unwired	Factory
	Thermistor control relay, LT3 c/w 10 terminals max	All listed	Factory	A115
			—	

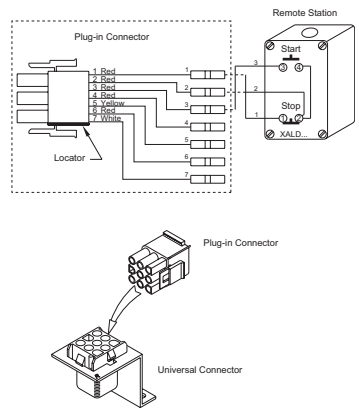
31. Catalog numbers beginning with LA9 are only for starters with a "2" before the voltage code.

**Table 20 - Factory Modifications for Meters**

Symbol	Description	For Starter	Assembly by	NEMA Type 1 and 12 Suffix/Cat. No.
	Ammeter 3.5" panel type c/w 5 amps. C.T. and 2 controls terminals	All listed	Factory	A135
	Voltmeter 3.5" panel type c/w 0-750 Volts max. c/w 2 x 600V terminals		Factory	A140
	Elapsed time meter 3.5" panel type c/w 2 control terminals		Factory	A138
	3 phase switch (ammeter or voltmeter)		Factory	A136
	Extra current transformer		Factory	A137
Terminal Blocks				
	1-5 wired control terminals	All listed	Factory	A605
	1-10 wired control terminals		Factory	A610
Overload Relays				
	Class 20	All listed	Factory	A020
Enclosure Modifications				
—	Cover gasket	Type 1 combination, fuse, or breaker	Factory	A020
Special				
—	Give all details in writing	All listed	Factory	A999

**Table 21 - Factory or Field Installed Modifications**

Description	For Starter	Assembly by	NEMA Type 1 and 12 Suffix/Cat. No.
Insta-Kits Adaptor for Remote Control Only			
7 wire adaptor	—	Field Installation	LA9AADIS7
Insta-Kits Adaptor for Local + Remote Control			
3 wire adaptor	—	Field Installation	LA9AADIS3
4 wire adaptor	—	Field Installation	LA9AADIS4
5 wire adaptor	—	Field Installation	LA9AADIS5
Insta-Kits for Local + Remote Control Connection			



Nameplates			
2 x 0.5" glued	All listed	Factory	A141
3 x 1" glued		Factory	A142
2 x 0.5" screwed		Factory	A241
3 x 1" screwed		Factory	A242

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