

Factory Modifications

Selection

Ordering Information	
<ul style="list-style-type: none"> ▶ All modifications will consist of Siemens standard components as available. Standard equipment dimensions and enclosure construction may not apply when certain modifications and special features are added. ▶ Catalog Number Suffixes indicate numbers or letters added to the end of a catalog number. Example: 14DP32BA becomes 14DP32BAA1. 	

Pilot Devices[Ⓢ]

Description	Modification	Class	Enclosure Type	Suffix	List Price \$
Push Buttons	Start, Stop	14, 17, 18, 36, 37, 40, 70, 71, 83, 84, CLM, CM, LE	All	A1	180. [Ⓢ]
	Forward, Reverse, Stop	22, 25, 26, 43	All [Ⓢ]	A2	328.
	High, Low, Stop	30, 32	All		
	E-Stop	14 [Ⓢ] , 17, 18, 22 [Ⓢ] , 25, 26, 30 [Ⓢ] , 32, 40 [Ⓢ] , 43 [Ⓢ]	All [Ⓢ]	ES	244.
	Test Push Buttons	83, 84	All	K1	180.
Selector Switches	Hand-Off-Auto	14, 17, 18, 36, 37, 40, 70, 71, 83, 84, LE	All	A3	180. [Ⓢ]
		CM, CLM	All	A3	701.
	For 24 volt HOA control, 20 Amp contactor only	CLM [Ⓢ]	1	EM	701.
	Off-On	14, 17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 70, 71, 83, 84, CLM, CM, LE	All	A4	180. [Ⓢ]
	Auto-Off	14, 17, 83, 84	1 [Ⓢ] , 4, 12	A6	180. [Ⓢ]
	Forward-Off-Reverse	22, 25, 26, 43	All	A5	180.
	High-Off-Low	30, 32	All		
	Hand-Off-Auto (Keyed)	14, 17, 18, 36, 37, 40, LE, CLM, CM, 70, 71	All [Ⓢ]	A9	540.
	Auto-Off-Low-High	30, 32	All [Ⓢ]	A0	204.
	Hand-Off-Auto w/ start push button	70, 71	All	S3	271.
Run/Bypass (Keyed)	70, 71	12, 4	A12	540.	

Pilot Lights[Ⓢ]

Class	Enclosure Type	Lens Color →	Red	Green	Red	Green	Red	Green	Amber	White	Red Push-To-Test	Green Push To-Test	Green Push To-Test
		Legend→	On For/Rev Low/High	On For/Rev Low/High	Run	Run	Off	Off	OL Tripped	Control Power On	On For/Rev Low/High	On For/Rev Low/High	Off
		Suffix →	FA	FB	FC	FD	FJ	FK	FL [Ⓢ]	FW [Ⓢ]	FS ^{Ⓢ12}	FT ^{Ⓢ12}	FU ^{Ⓢ12}
14,40,17,18,36,37,70,71,87, 88, LE, CLM, CM	1, 3R, 4, 4X, 12		193.	193.	193.	193.	283.	283.	283.	193.	246.	246.	337.
22, 25, 26, 30, 32, 43, 83, 84	1, 3R, 4, 4X, 12		386.	386.	—	—	283.	283.	283.	193.	492.	492.	337.

Coil Options

Class 14, 17, 18, 22, 25, 26, 30, 32, 40, 43, 83, 84, 87, 88 [Ⓢ]					
Volts 60 HZ	Volts 50 HZ	Coil Letter Change	Controller Size — List Price \$		
			00-2½	3, 3½	4
24 Separate Control 120 Separate Control 110-120/220-240 200-208 220-240 277 220-240/440-480 440-480 575-600	24 110 110/190-220 — 190-220 240 190-220/380-440 380-440 550	J F A D G L C H E	NC	NC	NC
DC Coil [Ⓢ]	24V 48V 125V 250V	S [Ⓢ] U V W	140.	271.	361.
DC Coil and AC/DC Rectifier	120VAC 240VAC	VY WY	402.	419.	534.

AC (50-60 HZ) or DC	Coil Letter Change	Controller Size 4 (Vacuum Only) Size 5 & 6 (ALL)
23-26V 42-48V 110-127V 200-220V 220-240V 240-277V 380-420V 440-480V 575-600V	J U F D G L K H E	NC

Miscellaneous Options

	Class	Change the 92 to	List Price \$
OMIT Alternator (deduct)	83,84	95	199.
Duplex with Separate Relay Alternation	83,84	93	NC
Duplex with lead pump transfer switch	83,84	94	NC

[Ⓢ]Not Available on NEMA 7, 9 enclosure.

[Ⓢ]Not Available on Class 14, 40, 22, 43, 30 (size 00-4) and Class LE, CLM (20-30amp) NEMA 1 enclosures.

[Ⓢ]Not available on 2-speed 1-winding (size 00-1 3/4) NEMA 1 or 2-speed 2-winding (size 00-4) NEMA 1.

[Ⓢ]DC coils include 1 NC, late break aux. contact. This aux. contact takes up one side of the starter (00-4 only).

[Ⓢ]For Class 14 & 40, Sz 00-4, N1, a max of (3) pilot device suffixes may be used; either (1) PB or sel. sw. AND (2) pilot light.

[Ⓢ]Bimetal OL - Size 00 - 2 1/2 available. ESP QL - Size 00 - 4 available.

[Ⓢ]For 24 volt HOA control, 20 Amp contactor only.

[Ⓢ]For Class 83, 84 two devices are provided. Price x 2.

[Ⓢ]For Class 83, 84 standard enclosure (92) alternating relay available in 24v or 120v control only.

[Ⓢ]Scoil is not available for size 4 contactors or starters.

Discount Schedule NEMA Control

Siemens Electrical Distribution Products Catalog 2006 SPEEDFAX

16-99

16 Control Products

Factory Modifications

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Ordering Information	Transformer Table		
<ul style="list-style-type: none"> ▶ Replace (*) with letter from Transformer Table. ▶ Prices shown are additions to standard equipment prices as listed in the catalog and are not to be used as separate selling prices. All modifications will consist of Siemens standard components as available. Standard equipment dimensions and enclosure construction may not apply when certain modifications and special features are added. ▶ Catalog Number Suffixes indicate numbers or letters added to the end of a catalog number. Example: 14DP32BA becomes 14DP32BABB. 	Primary Volts	Secondary Volts	Letter
	120	24	B
	208	24	S
	208	120	T
	240	24	J
	240	120	F
	277	24	N
	277	120	P
	380	110	U
	415	100	W
	480	240	R
	480/240	24	D
480/240	120	A	
600	24	E	
600	120	C	

Control Power Transformers

Description	Catalog No Suffix	Product Class	Enclosure Type	20-60	100	—	200	300-400			
				0-2½	3	3½, 4	5	6	7	8	
Standard Capacity ^① with 1-Secondary Fuse	B*	14, 17, 18, 22, 25, 26 30, 32, 40, 43	1, 3, 4, 12 7 & 9	222.	—	—	—	—	—	—	—
				255.	—	—	—	—	—	—	
Standard Capacity with 2-Primary and 1-Secondary Fuse	D*	14, 17, 18, 22, 25, 26 30, 32, 40, 43, LE, CLM, CM	1, 3, 4, 12 7 & 9	402.	640.	640.	738.	738.	813.	813.	
				435.	676.	676.	780.	780.	944.	944.	
100VA Extra Capacity with 2-Primary and 1-Secondary Fuse	C*	14, 17, 18, 22, 25, 26 30, 32, 40, 43, LE, CLM, CM 36, 37, 70, 71	1, 3, 4, 12 7 & 9	571.	820.	820.	902.	902.	984.	984.	
				607.	960.	960.	1108.	1108.	1233.	1233.	
150VA Extra Capacity with 2-Primary and 1-Secondary Fuse	C*1	14, 17, 18, 22, 25, 26 30, 32, 40, 43, LE, CLM, CM 36, 37, 70, 71	1, 3, 4, 12 All	714.	977.	977.	1059.	1059.	1059.	1059.	
				886.	1157.	1157.	1223.	—	—	—	

← Lighting & Heating Ratings (Amps)
← Motor Controller Size

Factory Assembled Fuse Clips—Class 25, 32, 84^②

Fuse Clip Amps	Volts	Rejection Clip Suffix ^③	List Price \$
30	250	10	24.
30	600	11	42.
60	250	12	42.
60	600	13	58.
100	250	14	131.
100	600	15	131.
200	250	16	295.
200	600	17	295.
400	250	18	607.
400	600	19	607.
600	250	20	870.
600	600	21	870.
800	600	23	1959.
1600	600	25	4896.

Note: Factory will furnish the same voltage coils as transformer secondary voltage (except with class 36,37,70,71).

① The standard control transformer supplied for Starter Sizes 0 through 2½ will be rated 45VA and have the appropriate secondary fuse. Primary fuses will not be supplied as standard. For primary fuse option select appropriate suffix from table. According to NEC 430-72, 450-3, and UL 508, section 32, primary fuses are not required for control transformers rated less than 50VA which are inherently protected.

② For ESP100 styles add the rejection clip suffix to the end of the base style catalog number. For thermal styles add the rejection clip suffix immediately before the 81 in the part number.

③ For Class J fuse clips, add suffix "DJ".

④ Class 84 Duplex Controllers require two fusible disconnects thus multiply the price adder by two.

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Additional Auxiliary Contacts

Class	NO Contacts	NC Contacts	Catalog Number Suffix	Controller Size — List Price \$		
				00-1 ³ / ₄	2-4	5-6
14,17,18,40, 83, 84, 87 [Ⓞ]	—	1	G01	91.	91.	—
	—	2	G02	181.	181.	181.
	1	—	G10	91.	91.	—
	1	1	G11	181.	181.	181.
	1	2	G12	272.	272.	—
	2	—	G20	181.	181.	181.
	2	1	G21	272.	272.	—
	2	2	G22	362.	362.	362.
	2	3	G23	453.	453.	—
	3	1	G31	362.	362.	362.
	3	2	G32	453.	453.	—
	3	3	G33	543.	—	—
	4	—	G40	362.	362.	362.
	4	1	G41	453.	453.	—
	4	2	G42	543.	—	—
	4	4	G44	724.	—	—
5	—	G50	453.	453.	—	
5	1	G51	543.	—	—	
5	3	G53	724.	—	—	
6	—	G60	543.	—	—	
6	2	G62	724.	—	—	
7	1	G71	724.	—	—	
8	—	G80	724.	—	—	
22, 25, 26, 43 & 30, 32 (2-winding)	—	2	G02 [Ⓞ]	181.	181.	—
	2	—	G20 [Ⓞ]	181.	181.	—
	2	2	G22 [Ⓞ]	362.	362.	362.
	4	0	G40 [Ⓞ]	362.	362.	362.
	4	4	G44 [Ⓞ]	724.	724.	—
	6	2	G62 [Ⓞ]	724.	724.	—
8	0	G80 [Ⓞ]	724.	724.	—	
30, 32 (1-winding)	0	2	G02 [Ⓞ]	—	181.	—
	2	—	G20 [Ⓞ]	—	181.	—
	2	2	G22 [Ⓞ]	362.	362.	—
	4	—	G40 [Ⓞ]	362.	362.	—
	4	4	G44 [Ⓞ]	—	724.	—
	6	2	G62 [Ⓞ]	—	724.	—
8	—	G80 [Ⓞ]	—	724.	—	
LE, CLM, CM	1	1	G11	181.	—	—
CLM, CM	0	2	G02 [Ⓞ]	181.	—	—
	2	0	G20 [Ⓞ]	181.	—	—
	2	2	G22 [Ⓞ]	181.	—	—

Overload Options

Class 14, 17, 18, 22, 25, 26, 30, 32							
Description	Trip Class	Phase	Contacts	Catalog Number Suffix	Controller Size—List Price \$		
					00-2 ¹ / ₂	3-4	5,6
Ambient Compensated Bimetal	Class 10 or 20 (K or E heaters)	3 Phase or Single Phase	NO & NC, SPDT	91	49. [Ⓞ]	—	—
ESP100 or 3RB10 (Sz 5-6)	Class 10 Class 30	3 Phase	NC NC	51 53	NC NC	NC NC	NC —

[Ⓞ] Auxiliary contacts will be added evenly across contactors. (i.e. Class 22, G02 suffix will add 2 NC contacts (one per contactor).)

[Ⓞ] Double the price addition for Class 30 and 32.

[Ⓞ] For class 83, 84 contacts will be added to both starters. Price x 2.

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Control Options

Description	Class	Enclosure Type	Catalog Number Suffix	List Price \$
Lighting Control Modules	CLM 20 Amp	All	2W, 3W, 3WS	419. 651. 688.
Surge Suppression for 120V AC Coil [Ⓞ]	14, 17, 18, 22, 25, 26, 30, 32, 36, 37, 70, 71, 83, 84, 87, 88	All	SS	73.
Disconnect Switch Interlock 2 NO/2 NC	DPDT 17, 25, 32, 36, 37	1, 3, 4, 12	GY	120.
Motor Circuit Protector Interlock NO/NC	SPDT 18, 26, 32, 36, 37	1, 3, 4, 12, 7, 9	GY	237.
Lightning Arrestor	17, 18, 22, 25, 26, 30, 32, 36, 37, 70, 71, 83, 84, 87, 88	All	L	328.
Circuit Breaker Shunt Trip	18, 26, 32, 37, 71, 83, 84, 87, 88	All	L6	676.
Circuit Breaker Undervoltage Trip	18, 26, 32, 37, 71, 83, 84, 87, 88	All	L7	676.
Circuit Breaker Alarm Switch Trip	18, 26, 32, 37, 71, 83, 84, 87, 88	All	L8	676.
NO alarm aux contact for ESP OL [Ⓞ]	14, 17, 18, 22, 25, 26, 30, 32, 36, 37, 71	All	L9	45.
Ground Lug – 1 Conductor	All	All	L10	66.
Control Circuit Fuse and Holder (Transformer Primary Fusing)	All	1, 3, 4, 12, 7 & 9	F1 (1 fuse) F2 (2 fuses)	180. 180.
Control Circuit Circuit Breaker Internally Operated	14 [Ⓞ] , 17, 18, 22 [Ⓞ] , 25, 26, 30 [Ⓞ] , 32, 36, 37, 70, 71, 83, 84, 87, 88	1, 3, 4, 12	F4	714.
Space Heater (120V separate control)	14 [Ⓞ] , 17, 18, 22, 25, 26, 30, 32, 36, 37, 70, 71, 83, 84, 87, 88	1, 3, 4, 12, 7 & 9	SH	574.
Space Heater with Thermostat (120V separate control)	14 [Ⓞ] , 17, 18, 22, 25, 26, 30, 32, 36, 37, 70, 71, 83, 84, 87, 88	1, 3, 4, 12, 7 & 9	ST	616.
Surge Capacitor	87, 88	All	SC	394.
Pressure Switch for Jockey Pump Applications	87	All	P9	366.
Alarm Package (includes horn, light, relay & push-button)	83, 84, 87, 88	All	M7	1231.
Backspin Protection	87, 88	All	T5	640.
Minimum Run Timer 0.2 sec. - 3 mins.	87, 88	All	T6	640.
Blown Fuse Indicator Light	83, 84, 87, 88	All	L11	410.
Single Phase 120VAC Combination Starter	17, 18	All	Z1[Ⓞ]	NC
Single Phase 240VAC Combination Starter	17, 18	All	Z1[Ⓞ]	NC

Reversing Options

Description	Class	Catalog Number Suffix	Controller Size — List Price \$									
			0	1	1¼	2	2½	3	3½	4	5	
Reversing in one speed only 2 speed 1 winding	30, 32	R6	984.	984.	1199.	1411.	1743.	2050.	2354.	2769.	—	
Reversing in one speed only 2 speed 2 winding		R7	952.	1022.	1223.	1439.	1800.	2117.	2428.	2858.	—	
Reversing in both speeds 2 speed 1 winding		R8	1329.	1444.	1939.	2281.	2887.	3396.	4477.	5267.	—	
Reversing in both speeds 2 speed 2 winding		R9	1477.	1592.	2262.	2661.	3250.	3823.	4436.	5219.	—	
Reversing for Reduced Voltage	36, 37	R	1181.	1181.	1181.	3231.	3231.	7401.	7401.	7401.	8845.	

Soft Start Contactor Options Class 70, 71

Description	Suffix	Starter Amp Rating									
		36	57	69	105	131	195	248	361	480	720
Reversing Contactor	R	1084.	1132.	1132.	1258.	1258.	2674.	2674.	4582.	8305.	12592.
Isolation Contactor	IC	542.	566.	566.	629.	629.	1337.	1337.	2291.	4998.	4637.

Enclosure Options

Class 36, 37		Controller Size — List Price \$					
Enclosure Type	Change the 8th Character of the Catalog Number to:	1-1¼	2, 2½	3	3½, 4	5	6
		NEMA 12/3R [Ⓞ]	N	820.	1026.	1231.	1641.
NEMA 4 (Painted)	E	984.	1108.	1600.	2519.	4676.	6154.
NEMA 4 (Stainless Steel)	W	1181.	1329.	1920.	3022.	5611.	—

Enclosure Options Class 70, 71

Enclosure Type	Change the 7th Character of the Catalog Number to:	Starter Amp Rating									
		36	57	69	105	131	195	248	361	480	720
NEMA 3R	D	372.	437.	450.	500.	525.	552.	575.	904.	1890.	1907.
NEMA 12 [Ⓞ]	0	542.	566.	566.	629.	629.	1337.	1337.	2291.	4998.	4998.
NEMA 4 [Ⓞ]	E	739.	763.	763.	826.	826.	1534.	1534.	1534.	5598.	—
NEMA 4 (SS) [Ⓞ]	W	1442.	1466.	1466.	1529.	1729.	2437.	2437.	—	—	—

[Ⓞ] Not available on NEMA 1. Order NEMA 12.

[Ⓞ] Supplied as NEMA 12, field convertible to NEMA 3R.

[Ⓞ] Supplied with bypass contactor.

[Ⓞ] For bimetal OL, order cat. no. with "91" suffix.

[Ⓞ] Specify the single phase voltage when ordering.

[Ⓞ] Surge Suppression for NEMA sizes 5 – 8 are supplied internal with the coil.

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Enclosure Options Class 14, 17, 18

Class	Enclosure Type	Change the 7th Character of the Catalog Number with Bi-Metal OL to:	Change the 8th Character of the Catalog Number with ESP OL to:	Controller Size – List Price Adder \$				
				00–1 3/4	2–2 1/2	3	3 1/2–4	5–8
14	NEMA 4 (316 Stainless Steel)	X	X	45.	149.	149.	149.	—
14 (Extra Wide)	NEMA 4 (316 Stainless Steel)	X	X	78.	78.	170.	170.	—
17 & 18	NEMA 4 (316 Stainless Steel)	X	X	245.	245.	245.	350.	—

Note: Add price to the standard 304 stainless steel unit price.

Control Relays

Description	Class	Enclosure Type	Suffix	List Price \$
Control Relay ^① 4 Poles Max	All	1, 3, 4, 7, 9, 12	R40	968.
			R22	
			R04	
Under Voltage, Phase Failure, Phase Sequence, Phase Unbalance (460V) Under Voltage, Phase Failure, Phase Sequence, Phase Unbalance (230V) Under Voltage, Phase Failure, Phase Sequence, Phase Unbalance (380V) Under Voltage, Phase Failure, Phase Sequence, Phase Unbalance (575V) Ground Fault Relay	14 ^② , 17, 18, 22 ^② , 25, 26, 30 ^② , 32, 36, 37, 40 ^② , 43 ^② , 70, 71, 83, 84, 87, 88	1, 3, 4, 7 & 9, 12	R1	905.
			R2	
			R3	
			R4	
			R5	
Electronic On Delay Relay (.15s–100h) 24V/120V ^① Electronic On Delay Relay (.15s–100h) 24V/240V ^{①②} Electronic Off Delay Relay (.15s–100s) 120V ^① Electronic Off Delay Relay (.15s–100s) 240V ^{①②}	30, 32	1, 3, 4, 7, 9, 12	T1	902.
			T2	
			T3	
			T4	
Alarm Package Includes horn, light, relay & push button	30, 32	1, 3, 12	M7	1231.
24 hour time clock 24 hour time clock with day omission 7 day time clock	LE, CLM, CM		T7 T8 T9	902.
Compelling Relay	30, 32	1, 4, 12	A6	541.
Acceleration Control	30, 32	1, 4, 12	A7	1231.
Deceleration Control			A8	

Meters—Mounted on Enclosure

Description	Class	Enclosure Type	Suffix	List Price \$
Ammeter (includes a C.T. if necessary) Ammeter and Switch (3 Phase with 3 C.T.'s) Voltmeter Voltmeter and Switch (3 Phase) Elapsed Time Meter Wattmeter	14 ^② , 17, 18, 22 ^② , 25, 26, 36, 37, 40 ^② , 43 ^② , 70, 71	1, 12	M1	1624.
			M2	2461.
			M3	1624.
			M4	2461.
			M5	476.
			M6	3330.

Function Identification Plates

Description	Class	Suffix	List Price \$
Function identification plate, with marking as specified	All	N1	80.

Terminal Blocks^①

Description	Class	Suffix	List Price \$
3 Point Terminal	All	TC3 ^②	197.
6 Point Terminal		TC6 ^②	394.
9 Point Terminal		TC9 ^②	591.
12 Point Terminal			788.

Special Ratings

Description	Class	Suffix	List Price \$
Service Entrance Rating	17, 18, 25, 26, 32, 71	N3	213.

- ① Supplied mounted and unwired.
② Not available on Class 36, 37, 70, 71.

- ③ Alarm Pkg not available.
④ ETM is only meter available. N12 only.

- ⑤ For terminal point more than 9 terminals use additional suffixes. Max 3 suffixes can be selected.