



HP Rated Control

Selection

Factory Modifications

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. Any specified special components other than Siemens

components or modifications not listed in these pages, must be referred to the local sales office with complete description for special pricing as required. Standard equipment dimensions and enclosure construction may

not apply when certain modifications and special features are added. Consult the local sales office with complete description when accurate dimensions are required.

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Modification Description	Catalog No Suffix ^①	NEMA Enclosure Type	Starter Hp Size/Price \$ ^②					
			HA-HD	HE	HG	HH-HJ	HL-HR	HT
Pilot Devices^③								
On-Off Pushbutton	A1	All	112.	112.	112.	112.	112.	181.
Start-Stop Pushbutton	A	1	112.	112.	112.	112.	181.	181.
Start-Stop Pushbutton	A	3R, 4, 4X, 12	181.	181.	181.	181.	181.	181.
Forward-Reverse-Off Pushbutton	B	All	308.	308.	308.	308.	308.	308.
Hand-Off-Auto Selector Switch	C	1	112.	112.	112.	112.	181.	181.
Hand-Off-Auto Selector Switch	C	3R, 4, 4X, 12	181.	181.	181.	181.	181.	181.
Start-Stop Selector Switch	D	All	181.	181.	181.	181.	181.	181.
Forward-Off-Reverse Selector Switch	E	All	181.	181.	181.	181.	181.	181.
Forward-Reverse Selector Switch	F	All	181.	181.	181.	181.	181.	181.
Key Operated Selector Switch (Specify Marking and Key Withdrawal Position)	—	All	216.	216.	216.	216.	216.	216.
Illuminated Selector Switch (Specify Marking)	—	All	285.	285.	285.	285.	285.	285.
Illuminated Pushbutton (Specify Marking)	—	All	285.	285.	285.	285.	285.	285.
Single Oiltight Pushbutton (Specify Marking)	—	All	181.	181.	181.	181.	181.	181.
Pilot Light with Red Lens "Run" (Does Not Include Auxiliary Contact)	G	All	181.	181.	181.	181.	181.	181.
Pilot Light with Green Lens "Off" (Does Include Auxiliary Contact)	H	All	266.	266.	266.	266.	266.	266.
Pilot Light with Red Lens "Run" (2 Auxiliary Contacts for Reversing)	G	All	350.	350.	350.	350.	350.	350.
Push to Test Pilot Light with Red Lens "Run" (Does Not Include Auxiliary Contact)	L0	All	235.	235.	235.	235.	235.	235.
Push to Test Pilot Light with Green Lens "Off" (Does Not Include Auxiliary Contact)	L1	All	320.	320.	320.	320.	320.	320.
Overload Relay "Trip" Alarm Light	G0	All	266.	266.	266.	266.	266.	266.
Pilot Light with Red Lens "Off"	M	All	266.	266.	266.	266.	266.	266.
Pilot Light with Red Lens "On"	G1	All	181.	181.	181.	181.	181.	181.
Pilot Light with Green Lens "Run"	N	All	181.	181.	181.	181.	181.	181.
Push to test Pilot Light with Green Lens "Run"	N1	All	181.	181.	181.	181.	181.	181.
Pilot Light with Green Lens "On"	W	All	181.	181.	181.	181.	181.	181.
Push to test Pilot Light with Green Lens "On"	W1	All	181.	181.	181.	181.	181.	181.
Extra Auxiliary Contact Blocks^④								
Factory Installed 1 NO	A01	All	85.	85.	85.	85.	85.	85.
Factory Installed 1 NO and 1 NC	A11	All	169.	169.	169.	169.	169.	169.
Factory Installed 2 NO and 2 NC	A22	All	—	—	339.	339.	339.	339.
Meters								
Ammeter (Includes Current Transformer if necessary)	Q2	1, 12	539.	539.	1078.	1078.	1525.	1525.
Voltmeter	Q3	1, 12	1525.	1525.	1525.	1525.	1525.	1525.
Ammeter with Switch with Three Current Transformers	Q4	1, 12	2850.	2850.	2850.	2850.	2850.	2850.
Voltmeter with Switch	Q5	1, 12	2311.	2311.	2311.	2311.	2311.	2311.
Elapsed Time Meter	Q6	All	447.	447.	447.	447.	447.	447.
Control Options								
ETI Alarm Switch	L8	All	635.	635.	635.	635.	635.	635.
Isolated Alarm Circuit Contact on Overload Relay	L9	All	96.	96.	96.	96.	96.	96.
Separate Control Fuse Block (1)	R0	All	85.	85.	85.	85.	85.	85.
Separate Control Fuse Block (2)	R1	All	169.	169.	169.	169.	169.	169.
Lightning Arrestors	FLA	All	308.	308.	308.	308.	308.	308.
Ground Lug	R3	All	15.	15.	15.	15.	15.	15.
Control Relays^{⑤⑥}								
Relay 2 NO/2 NC	S0	All	393.	393.	393.	393.	616.	693.
Relay 4 NO	S1	All	393.	393.	393.	393.	616.	693.
Relay 4 NC	S2	All	393.	393.	393.	393.	616.	693.
Timing Relay, on Delay 5-100 SEC	S5	All	647.	647.	647.	647.	647.	647.
Phase Failure and Reverse Phase Relay and Undervoltage	S6	All	1356.	1356.	1356.	1356.	1356.	1356.
Coil Transient Suppressor-Per Coil	—	All	85.	85.	85.	85.	85.	85.
Brake Relay	—	All	755.	755.	755.	755.	755.	755.
Undervoltage Relay Single Phase Non-Adjustable	S7	All	520.	520.	520.	520.	520.	520.
Terminal Board For Control Wiring (Wired)								
3 Pole 3WA1 Terminal Board	T0	All	185.	185.	185.	185.	185.	185.
6 Pole 8WA1 Terminal Board	T1	All	370.	370.	370.	370.	370.	370.
9 Pole 8WA1 Terminal Board	T2	All	555.	555.	555.	555.	555.	555.
NEMA 1 Gasketed Enclosure^⑦								
Enclosure Unit Nameplate (Engraving to be specified)	—	All	39.	39.	39.	39.	39.	39.

①Modifications not covered by a Catalog Number Suffix should be ordered by description.

②Do not use open component pricing for enclosed starters.

③Pilot lights are full voltage type as standard. To order

transformer type add \$15. List and order by description.

④For standard and extra auxiliary contact configurations, see page 191.

⑤Relays and timers will be supplied mounted but unwired unless a wiring diagram is supplied with the order.

⑥Timers are available in 24V, 120V and 240 volt coils. For other voltage consult sales office.

⑦Change character of enclosure position of starter Catalog Number. Combination starters only.



Factory Modifications

Modification Description	Catalog Number Suffix ^①		NEMA Enclosure Type	Starter Hp Size/Price \$ ^②					
	24 Volt Secondary	120 Volt Secondary		HA–HD	HE	HG	HH–HJ	HL–HN	HR–HT
Control Transformer Standard Capacity^③ With 1-Secondary Fuse									
208 Volt Primary	0G	0H	All	208.	208.	293.	—	—	—
277 Volt Primary	02	03		208.	208.	293.	—	—	—
240 Volt Primary	04	07		208.	208.	293.	—	—	—
480 Volt Primary	05	08		208.	208.	293.	—	—	—
575 Volt Primary	06	09		208.	208.	293.	—	—	—
Control Transformer Standard Capacity With 2-Primary and 1-Secondary Fuse									
208 Volt Primary	GP	HP	All	377.	377.	462.	601.	693.	762.
277 Volt Primary	2P	3P		377.	377.	462.	601.	693.	762.
240 Volt Primary	4P	7P		377.	377.	462.	601.	693.	762.
480 Volt Primary	5P	8P		377.	377.	462.	601.	693.	762.
575 Volt Primary	6P	9P		377.	377.	462.	601.	693.	762.
Control Transformer with 50VA Extra Capacity With 2-Primary and 1-Secondary Fuse									
208 Volt Primary	GPJ	HPJ	All	539.	539.	647.	770.	847.	924.
277 Volt Primary	2PJ	3PJ		539.	539.	647.	770.	847.	924.
240 Volt Primary	4PJ	7PJ		539.	539.	647.	770.	847.	924.
480 Volt Primary	5PJ	8PJ		539.	539.	647.	770.	847.	924.
575 Volt Primary	6PJ	9PJ		539.	539.	647.	770.	847.	924.
Control Transformer with 100VA Extra Capacity With 2-Primary and 1-Secondary Fuse									
208 Volt Primary	GPV	HPV	All	539.	539.	647.	770.	847.	924.
277 Volt Primary	2PV	3PV		539.	539.	647.	770.	847.	924.
240 Volt Primary	4PV	7PV		539.	539.	647.	770.	847.	924.
480 Volt Primary	5PV	8PV		539.	539.	647.	770.	847.	924.
575 Volt Primary	6PV	9PV		539.	539.	647.	770.	847.	924.
Control Transformer with 150VA Extra Capacity With 2-Primary and 1-Secondary Fuse									
208 Volt Primary	GPK	HPK	All	670.	670.	793.	917.	1002.	1078.
277 Volt Primary	2PK	3PK		670.	670.	793.	917.	1002.	1078.
240 Volt Primary	4PK	7PK		670.	670.	793.	917.	1002.	1078.
480 Volt Primary	5PK	8PK		670.	670.	793.	917.	1002.	1078.
575 Volt Primary	6PK	9PK		670.	670.	793.	917.	1002.	1078.
Control Transformer with Non-Standard Primary or Secondary Voltage-Price Adder^④	—	—	All	39.	39.	39.	39.	39.	39.

- ①Catalog Suffix for 24V or 120V secondary are both same price.
- ②Do not use open component pricing for enclosed starters.
- ③The standard control transformer supplied for starter sizes HA and HG will be rated 45 VA 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 50 VA that are inherently protected.
- ④Specify primary and secondary voltage on order.

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Field Modifications



NEMA 1, 3R, 4 and 12 (with "T" suffix)
Hinged Cover Enclosure (will accept control power transformer) Uses P30 Pilot Devices Only.

NEMA 1
Lift Off Cover Enclosure (will not accept control power transformer) Uses KX Series Pilot Devices Only.

Ordering Information

- ▶ Specify complete Catalog Number from chart shown to the right.
- ▶ Field Modifications see pages 185–189.
- ▶ Dimensions see pages 192–196.

Catalog Number Breakdown Example

E	N	C	1	F	4	4	T
---	---	---	---	---	---	---	---

Separate Enclosure
NEMA

Enclosure Type

1 = NEMA 1
2 = NEMA 3R/12
S = NEMA 4 Stainless Steel

Enclosure Arrangement

Enclosure Size Suitable for Mounting a Control Transformer

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Application

ENC separate enclosures are designed for field assembly of a wide range of Siemens open style control components and field modification kits as listed in the chart shown on this page. Each enclosure comes with instruction sheets, reset assemblies and mounting hardware for field installation. By stocking the ENC separate enclosures along with Siemens control components, you can realize the versatility of the Siemens product offering while maximizing your stock.

Specifications

The ENC enclosures are UL labeled and offered in NEMA 1, 3R/12 and 4 designs.

Separate Enclosure Kits Class ENC

NEMA Type Enclosure	Suitable for Installing the Following HP Rated Components	Control Transformer Installation Capability	Catalog No	Price \$
NEMA 1 Lift Off Cover (Suitable for one KX Series Pilot Device Kit Only Mounted in Cover)	3TF30... thru 3TF33... 3TF40... thru 3TF45... 3UA5000... thru 3UA5500...	Space Not Available for Control Transformer	ENC1F44	54.
	3TF34... 3TF35... 3TF44... 3TF45... 3TF46... 3TF47... 3UA5800...	Space Not Available for Control Transformer	ENC1F46	77.
	3TF48... 3UA5800...	Space Not Available for Control Transformer	ENC1F48	154.
NEMA 1 Hinged Cover (Suitable for 3SB03 30 mm Pilot Device Kits Mounted in Cover)	3TF30... thru 3TF35... 3TF40... thru 3TF45... 3UA5000... thru 3UA5500... Reversing Contactors and Starters using 3TF30... thru 3TF34... and 3TF40... thru 3TF45...	Suitable Space Available for Max 150 VA Control Transformer Kits shown on page 188	ENC1F44T	146.
	3TF46... 3TF47... 3UA5800... Reversing Contactors and Starters using 3TF46... and 3TF47...	Suitable Space Available for Max 200 VA Control Transformer Kits shown on page 188	ENC1F46T	247.
	3TF48... 3UA5800... 3TF50... 3UA6000... Reversing Contactors and Starters using 3TF48...	Suitable Space Available for Max 300 VA Control Transformer Kits shown on page 188	ENC1F48T	393.
NEMA 3R/12 [Ⓞ] Hinged Cover (Suitable for 3SB03 30 mm Pilot Device Kits Mounted in Cover)	3TF40... thru 3TF47... 3TF30... thru 3TF35... 3UA5000... thru 3UA5800... Reversing Contactors and Starters using 3TF40... thru 3TF44... and 3TF30... thru 3TF34...	Suitable Space Available for Max 150 VA Control Transformer Kits shown on page 188	ENC2F46T	262.
	3TF48... 3TF50... 3UA5800... 3UA6000... Reversing Contactors and Starters using 3TF46... and 3TF48...	Suitable Space Available for Max 300 VA Control Transformer Kits shown on page 188	ENC2F48T	482.
NEMA 4 Stainless Steel Hinged Cover (Suitable for 3SB03 30 mm Pilot Device Kits Mounted in Cover)	3TF40... thru 3TF47... 3TF30... thru 3TF35... 3UA5000... thru 3UA5800... Reversing Contactors and Starters using 3TF30... thru 3TF34... and 3TF40... thru 3TF44...	Suitable Space Available for Max 150 VA Control Transformer Kits shown on page 188	ENC3F46T	647.
	3TF48... 3TF50... 3UA5800... 3UA6000... Reversing Contactors and Starters using 3TF46... 3TF48...	Suitable Space Available for Max 300 VA Control Transformer Kits shown on page 188	ENC3F48T	955.

[Ⓞ]NEMA 12 Enclosure is UL Listed for NEMA 3R outdoor applications. Watertight conduit hubs or equivalent provision for watertight connection at the conduit entrance shall be used.