

# SYST M

## pre-assembled enclosed starters



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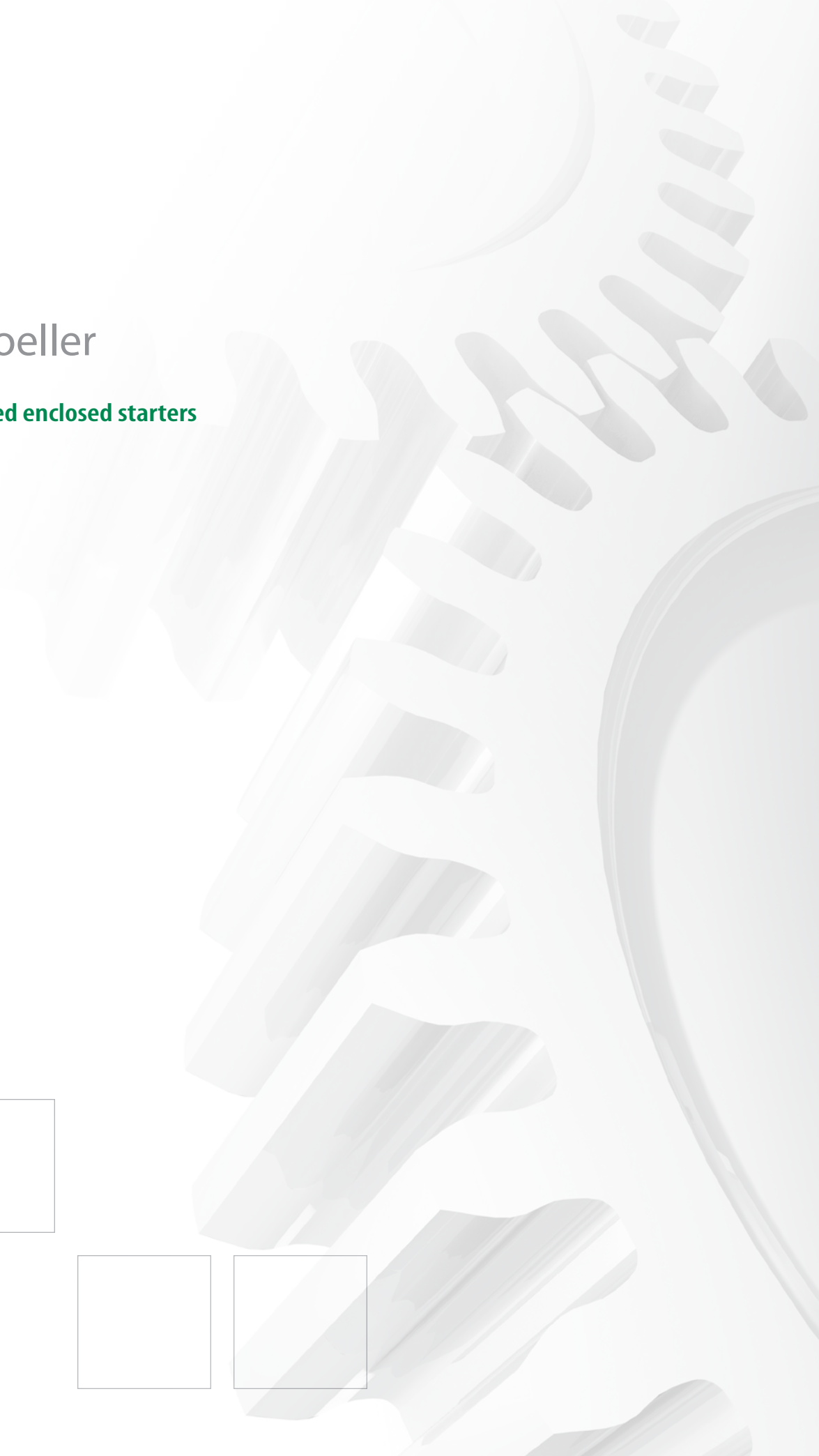
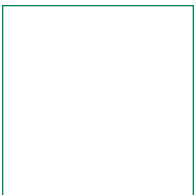
# Start with Moeller



pre-assembled enclosed starters



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Enclosed Starters



# SYST-M starters from Moeller

Economical, ready-made starters to 60HP (at 575V)



# SYST M



- > Pre-assembled, ready made starters to 60HP (at 575V)
- > Non-reversing, reversing, combination and non-combination models available
- > Heavy duty NEMA 1 enclosure for rugged performance
- > Many pilot device control options available
- > Convenient plug-in technology

Moeller has designed a complete line of enclosed, ready-made starters, called SYST-M, that you can install and use immediately. The entire SYST-M family is designed to be fully modular, so availability is generally from stock. The line is designed for a variety of applications to 60HP (@575V), including basic non-reversing and reversing starters. Both configurations are also available in fused combination designs.

## Ready-made and rugged

At the heart of every SYST-M starter is the new Moeller DIL M contactor (with 120V coil) and a ZB overload relay. These starter components are the newest and most modern on the market today.

All starters are housed in a heavy duty NEMA 1 enclosure with back plate, grounding terminals and knockouts.

## Plug-in speed and convenience



The essence of SYST-M starters is their modularity. All starters come equipped with plug-in connectors for pilot device modules and optional control power transformers. This not only allows us to build and ship the starters quickly, but allows you to change or add components in a snap.

## A variety of control

Pre-assembled pilot device kits come in many configurations, from simple 2-position and H-O-A selector switches, to START/STOP pushbuttons with a pilot light. A manual RESET button is also pre-installed on the front cover. All pilot devices are selected from Moeller's exceptional RMQ-Titan line that is rugged and good looking.

## Optional accessories available

Optional Control Power Transformers (CPT) are available with both a fused primary and secondary. There are four incoming voltages to choose, including 208, 240, 480 and 600. Output voltage is 120V to match the contactor. You may also choose a Remote Adaptor for use when the starter is being controlled from a remote location. As with all SYST-M components, all accessories are pre-wired with plug-in technology that installs in seconds.

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- > Ready made, economical AC, magnetic, non-reversing starters in a heavy duty NEMA 1 enclosure
- > SYST-M starters are in-stock for immediate delivery, or available in 24 hour turn
- > Convenient plug-in technology allows quick-build and quick-change of components
- > All SYST-M starters utilize Moeller contactors... the newest and most modern on the market today.



Pre-assembled Enclosed Starters

### SYST-M Base Unit ② – Full Voltage, Non-Reversing, Non-Combination

Maximum UL / CSA Horsepower Ratings				Auxiliary Contacts		Dimensions centimeters (inches)			Catalog Number	Price ②
Three Phase						H	W	D		
200 V	230 V	460 V	575 V	NO	NC					
3	3	10	10	1	0	24 (9.5)	17 (6.7)	15 (5.9)	SYSTM-STR-10	304
10	10	20	25	1	0	24 (9.5)	17 (6.7)	15 (5.9)	SYSTM-STR-20	449
20	25	50	60	1	1	40 (15.8)	23 (9.1)	20 (7.9)	SYSTM-STR-30	936

#### SYST-M Base Units Include ①②

- NEMA 1 heavy gauge enclosure with back plate, lift-off cover and knockouts
- Moeller DILM contactor (mounted) with 120V coil
- Plug-in quick connector for pilot device module (must order Pilot Device module for a complete SYSTM starter)
- Quick connector for an optional Control Power Transformer (CPT)
- Reset push button pre-mounted on cover
- Pre-installed grounding terminals

### Ordering Instructions

- 1 Locate the desired SYSTM base unit.
- 2 Select appropriate overload relay on page G8.
- 3 Select pilot device control kit on pages G9 – G10.
- 4 Select optional accessories on page G11.

- ① All SYSTM starters are designed in a heavy duty NEMA 1 enclosure with 120V AC control. Moeller offers a wide array of custom control panels for any application. If other starter types, enclosures or coil voltages are required, please contact your Moeller representative for a custom solution.
- ② Must order an overload relay and pilot device module for a complete SYSTM starter.

- > Ready made, economical, AC reversing starters, in a heavy duty NEMA 1 enclosure
- > SYST-M starters are in-stock for immediate delivery, or available in 24 hour turn
- > Convenient plug-in technology allows quick-build and quick-change of components
- > All SYST-M starters utilize Moeller contactors... the newest and most modern on the market today.



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**SYST-M Base Unit ② – Full Voltage, Reversing, Non-Combination**

Maximum UL / CSA Horsepower Ratings				Auxiliary Contacts		Dimensions centimeters (inches)			Catalog Number	Price ②
Three Phase						H	W	D		
200 V	230 V	460 V	575 V	NO	NC					
3	3	10	10	1	1	24 (9.5)	17 (6.7)	15 (5.9)	SYSTM-STR-10R	734
10	10	20	25	1	1	40 (15.8)	23 (9.1)	20 (7.9)	SYSTM-STR-20R	1245
20	25	50	60	1	1	40 (15.8)	23 (9.1)	20 (7.9)	SYSTM-STR-30R	1798

**SYST-M Base Units Include ① ②**

- NEMA 1 heavy gauge enclosure with back plate, lift-off cover and knockouts
- Moeller DILM reversing contactors (mounted) with 120V coil
- Plug-in quick connector for pilot device module (must order Pilot Device module for a complete SYSTM starter)
- Quick connector for an optional Control Power Transformer (CPT)
- Reset push button pre-mounted on cover
- Pre-installed grounding terminals

**Ordering Instructions**



- 1** Locate the desired SYSTM base unit.
- 2** Select appropriate overload relay on page G8.
- 3** Select pilot device control kit on pages G9 – G10.
- 4** Select optional accessories on page G11.

- ①** All SYSTM starters are designed in a heavy duty NEMA 1 enclosure with 120V AC control. Moeller offers a wide array of custom control panels for any application. If other starter types, enclosures or coil voltages are required, please contact your Moeller representative for a custom solution.
- ②** Must order an overload relay and pilot device module for a complete SYSTM starter.

- > Ready made, economical AC, combination fusible (HRC 1J), non-reversing starters in a heavy duty NEMA 1 enclosure
- > SYSTM starters are in-stock for immediate delivery, or available in 24 hour turn
- > Convenient plug-in technology allows quick-build and quick-change of components
- > All SYSTM starters utilize Moeller contactors... the newest and most modern on the market today.



### SYSTM Base Unit ② – Full Voltage, Non-Reversing, Combination, Fusible (HRC 1J)

Maximum UL / CSA Horsepower Ratings				Fused Disconnect [A]	Auxiliary Contacts		Dimensions centimeters (inches)			Catalog Number	Price ②
Three Phase					NO	NC	H	W	D		
200 V	230 V	460 V	575 V								
3	3	10	10	30	1	0	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-11C	1006
7½	7½	15	20	30	1	0	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-21C	1081
10	10	20	25	60	1	0	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-22C	1253
10	15	30	40	60	1	1	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-32C	1313
20	25	50	60	100	1	1	60 (23.6)	50 (19.7)	20 (7.9)	SYSTM-STR-33C	1945

#### SYSTM Base Units Include ①②

- NEMA 1 heavy gauge enclosure with back plate, lift-off cover and knockouts
- Moeller DILM contactor (mounted) with 120V coil
- Fused disconnect (HRC 1J) with rotary handle (fuses not included)
- Plug-in quick connector for pilot device module (must order Pilot Device module for a complete SYSTM starter)
- Quick connector for an optional Control Power Transformer (CPT)
- Reset push button pre-mounted on cover
- Pre-installed grounding terminals

### Ordering Instructions

- 1 Locate the desired SYSTM base unit.
- 2 Select appropriate overload relay on page G8.
- 3 Select pilot device control kit on pages G9 – G10.
- 4 Select optional accessories on page G11.

- ① All SYSTM starters are designed in a heavy duty NEMA 1 enclosure with 120V AC control. Moeller offers a wide array of custom control panels for any application. If other starter types, enclosures or coil voltages are required, please contact your Moeller representative for a custom solution.
- ② Must order an overload relay and pilot device module for a complete SYSTM starter.

- > Ready made, economical AC reversing, combination fusible (HRC 1J) starters in a heavy duty NEMA 1 enclosure
- > Popular SYST-M starters are in-stock for immediate delivery, or available in 24 hour turn
- > Convenient plug-in technology allows quick-build and quick-change of components
- > All SYST-M starters utilize Moeller contactors... the newest and most modern on the market today.



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**SYST-M Base Unit ② – Full Voltage, Reversing, Combination, Fusible (HRC 1J)**

Maximum UL / CSA Horsepower Ratings				Fused Disconnect [A]	Auxiliary Contacts		Dimensions centimeters (inches)			Catalog Number	Price ②
Three Phase					NO	NC	H	W	D		
200 V	230 V	460 V	575 V								
3	3	10	10	30	1	1	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-11CR	1443
7½	7½	15	20	30	1	1	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-21CR	1496
10	10	20	25	60	1	1	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-22CR	1611
10	15	30	40	60	1	1	60 (23.6)	27 (10.6)	20 (7.9)	SYSTM-STR-32CR	2264
20	25	50	60	100	1	1	60 (23.6)	50 (19.7)	20 (7.9)	SYSTM-STR-33CR	2553

**SYST-M Base Units Include ①②**


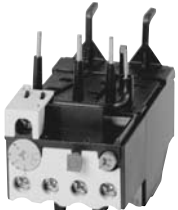

- NEMA 1 heavy gauge enclosure with back plate, lift-off cover and knockouts
- Moeller DILM reversing contactors (mounted with 120V coil)
- Fused disconnect (HRC 1J) with rotary handle (fuses not included)
- Plug-in quick connector for pilot device module (must order Pilot Device module for a complete SYSTM starter)
- Quick connector for an optional Control Power Transformer (CPT)
- Reset push button pre-mounted on cover
- Pre-installed grounding terminals

**Ordering Instructions**

- 
- 1** Locate the desired SYSTM base unit.
  - 2** Select appropriate overload relay on page G8.
  - 3** Select pilot device control kit on pages G9 – G10.
  - 4** Select optional accessories on page G11.

- ① All SYSTM starters are designed in a heavy duty NEMA 1 enclosure with 120V AC control. Moeller offers a wide array of custom control panels for any application. If other starter types, enclosures or coil voltages are required, please contact your Moeller representative for a custom solution.
- ② Must order an overload relay and pilot device module for a complete SYSTM starter.

**Direct Mount ZB Thermal Overload Relays for SYST-M Starters**

Overload Relay	Adjustable Setting Range	Auxiliary Contacts		For use with SYST-M starter...	Short-Circuit Protection (Max 600V AC) ①		Catalog Number	Price
		NO	NC		Fuses [A]	Circuit Breaker [A]		
	0.1 – 0.16	1	1	All series "10"	1	25	ZB12-0,16	144
	0.16 – 0.24	1	1		1	25	ZB12-0,24	144
	0.24 – 0.4	1	1		1	25	ZB12-0,4	144
	0.4 – 0.6	1	1		1	25	ZB12-0,6	144
	0.6 – 1	1	1		3	25	ZB12-1	144
	1 – 1.6	1	1		6	25	ZB12-1,6	144
	1.6 – 2.4	1	1		6	25	ZB12-2,4	144
	2.4 – 4	1	1		15	25	ZB12-4	144
	4 – 6	1	1		20	25	ZB12-6	144
	6 – 10	1	1		40	25	ZB12-10	144
	9 – 12	1	1		60	30	ZB12-12	144
	12 – 16	1	1		60	30	ZB12-16	144
	10 – 16	1	1	All series "20"	60	30	ZB32-16	152
	16 – 24	1	1		90	30	ZB32-24	152
	24 – 32	1	1		125	40	ZB32-32	192
	24 – 40	1	1	All series "30"	125	125	ZB65-40	236
	40 – 57	1	1		200	150	ZB65-57	260
	50 – 65	1	1		200	150	ZB65-65	260

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**Ordering Instructions**

- 1 Locate the desired SYST-M base unit.
- 2 Select appropriate overload relay on this page.
- 3 Select pilot device control kit on pages G9 – G10.
- 4 Select optional accessories on page G11.

① Observe the maximum permissible fuse of the contactor with direct device mounting.

**Pilot Device Kits for Non-reversing SYSTM-M Starters**

Kit	Description	Catalog No.	Price
	<ul style="list-style-type: none"> <li>One green START pushbutton</li> <li>One red STOP pushbutton</li> </ul>	SYSTM-SS	109
	French inscriptions <ul style="list-style-type: none"> <li>One green MARCHE pushbutton</li> <li>One red ARRÊT pushbutton</li> </ul>	SYSTM-SS-F	109
	<ul style="list-style-type: none"> <li>One green START pushbutton</li> <li>One red STOP pushbutton</li> <li>One red pilot light with ON legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-SS/PL	174
	French inscriptions <ul style="list-style-type: none"> <li>One green MARCHE pushbutton</li> <li>One red ARRÊT pushbutton</li> <li>One red pilot light with MARCHE legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-SS/PL-F	174
	<ul style="list-style-type: none"> <li>One red pilot light with ON legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-PL	91
	French inscriptions <ul style="list-style-type: none"> <li>One red pilot light with MARCHE legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-PL-F	91
	<ul style="list-style-type: none"> <li>Two-position OFF-ON selector switch</li> </ul>	SYSTM-OO	83
	French inscriptions <ul style="list-style-type: none"> <li>Two-position MARCHE-ARRÊT selector switch</li> </ul>	SYSTM-OO-F	83




Kit	Description	Catalog No.	Price
	<ul style="list-style-type: none"> <li>Two-position OFF-ON selector switch</li> <li>One red pilot light with ON legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-OO/PL	147
	French inscriptions <ul style="list-style-type: none"> <li>Two-position MARCHE-ARRÊT selector switch</li> <li>One red pilot light with MARCHE legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-OO/PL-F	147
	<ul style="list-style-type: none"> <li>Three-position HAND-O-AUTO selector switch</li> </ul>	SYSTM-HOA	117
	French inscriptions <ul style="list-style-type: none"> <li>Three-position MAN-O-AUTO selector switch</li> </ul>	SYSTM-HOA-F	94
	<ul style="list-style-type: none"> <li>Three-position HAND-O-AUTO selector switch</li> <li>One red pilot light with ON legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-HOA/PL	160
	French inscriptions <ul style="list-style-type: none"> <li>Three-position MAN-O-AUTO selector switch</li> <li>One red pilot light with MARCHE legend plate (LED element with 85 – 264V operating range)</li> </ul>	SYSTM-HOA/PL-F	160

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**Ordering Instructions**

- 1** Locate the desired SYSTM-M base unit.
- 2** Select appropriate overload relay on page G8.
- 3** Select pilot device control kit on this page or next.
- 4** Select optional accessories on page G11.

**Pilot Device Kit for Reversing SYST-M Starters**


Kit	Description	Catalog Number	Price
	<ul style="list-style-type: none"> <li>• One black FORWARD pushbutton</li> <li>• One black REVERSE pushbutton</li> <li>• One red STOP pushbutton, raised</li> </ul>	<b>SYSTM-SFR</b>	196
	<p>French inscriptions</p> <ul style="list-style-type: none"> <li>• One black AVANT pushbutton</li> <li>• One black ARRIERE pushbutton</li> <li>• One red ARRÊT pushbutton, raised</li> </ul>	<b>SYSTM-SFR-F</b>	196
	<ul style="list-style-type: none"> <li>• Three-position FWD-0-REV selector switch with thumb grip handle</li> </ul>	<b>SYSTM-FOR</b>	102
	<p>French inscriptions</p> <ul style="list-style-type: none"> <li>• Three-position AV-0-AR selector switch with thumb grip handle</li> </ul>	<b>SYSTM-FOR-F</b>	102
	<ul style="list-style-type: none"> <li>• Three-position FWD-0-REV selector switch with thumb grip handle</li> <li>• Two red pilot lights (LED element with 85 – 264V operating range):                             <ul style="list-style-type: none"> <li>- one with FORWARD legend plate</li> <li>- one with REVERSE legend plate</li> </ul> </li> </ul>	<b>SYSTM-FOR/PL/PL</b>	221
	<p>French inscriptions</p> <ul style="list-style-type: none"> <li>• Three-position AV-0-AR selector switch with thumb grip handle</li> <li>• Two red pilot lights (LED element with 85 – 264V operating range)                             <ul style="list-style-type: none"> <li>- one with AVANT legend plate</li> <li>- one with ARRIERE legend plate</li> </ul> </li> </ul>	<b>SYSTM-FOR/PL/PL-F</b>	221

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**Ordering Instructions**

- 1** Locate the desired SYST-M base unit.
- 2** Select appropriate overload relay on page G8.
- 3** Select pilot device control kit on this page or previous.
- 4** Select optional accessories on page G11.

**Control Transformers (optional)**

Transformer	VA Rating [VA]	Maximum Primary Fuse [A]	Maximum Secondary Fuse [A]	Primary Voltage	Secondary Voltage	Catalog Number	Price
	50	1½	¼	208	120	SYSTM-T50-208/120-NA	240
	50	1	¼	240	120	SYSTM-T50-240/120-NA	
	50	½	¼	480	120	SYSTM-T50-480/120-NA	
	50	¼	¼	600	120	SYSTM-T50-600/120-NA	

**Remote Control Adaptor (optional)**

Adaptor	Description	Catalog Number	Price
	5-wire plug-in adaptor. For use when the starter is controlled from a remote location only.	SYSTM-RA	21

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