

TeSys™ U Simple Motor Starter

Table 18.89: Line Phase Barrier (optional) [8]



Line Phase Barrier



Reverser Unit Assembled under the Power Base

Description	Cat. No.
Incoming line phase barrier to allow the TeSys U to be used as a self-protected combination starter according to UL508 Type E	LU9SP0

Table 18.90: Reverser

Control Connection	Max. Current (A)	Maximum Horsepower Ratings						Self-Protected Starter Base Catalog Number
		Three-Phase			Single-Phase			
		200 V	230 V	460 V	575 V	115 V	230 V	
With screw terminations	12	3	3	7.5	10	1.5	2	LU2B12[9]
	32	10	10	20	25	2	5	LU2B32[9]

Table 18.91: Select Control Unit Options [10][11]

Setting Range (A)	Standard Three-Phase Class 10 trip [12]	Advanced Three-Phase Class 10 trip [12]	Advanced Single-Phase Class 10 trip [12]	Advanced Three-Phase Class 20 trip [12]
0.15–0.6	LUCAX6●●	LUCB6●●	LUCC6●●	LUCDX6●●
0.3–1.4	LUCA1X●●	LUCB1X●●	LUCC1X●●	LUCD1X●●
1.25–5.0	LUCA05●●	LUCB05●●	LUCC05●●	LUCD05●●
3–12	LUCA12●●	LUCB12●●	LUCC12●●	LUCD12●●
4.5–18	LUCA18●●	LUCB18●●	LUCC18●●	LUCD18●●
8–32	LUCA32●●	LUCB32●●	LUCC32●●	LUCD32●●

Table 18.92: Voltage Codes

Volts	24	48–72	110–240
DC	BL[13][14]	—	—
AC	B	—	—
DC or AC	—	ES[15]	FU

Table 18.93: Reversing Modules for Field Addition

Mounting	Catalog No.	Wiring Adapter	
Beneath	LU2MB0	LU9MR1C	Note: For LU2MB0 and LU6MB0, voltage code required; must match control unit.
Beside	LU6MB0	LU9MR1	

Table 18.94: Current Limiter [16][17]

Accessory	Application	Technical Data	Mounting	Cat. No.
Current limiter/isolator	Additional current limiting aspects for the starter	130 kA at 460 V 65 kA at 575 V	Direct mounting to LUB● and LU2B●	LUALB1
Limiter cartridge	Replacement cartridge for LUALB1	130 kA at 460 V 65 kA at 575 V	—	LUALF1

Table 18.95: Control Unit Multifunction [16][18]

Setting Range (A)	Multifunction programmable
0.15–0.6	LUCMX6BL
0.3–1.4	LUCM1XBL
1.25–5.0	LUCM05BL
3–12	LUCM12BL
4.5–18	LUCM18BL
8–32	LUCM32BL

Table 18.96: Function Modules [16][19]

Module	Description	For use with:	Operation Requirements	Catalog Number
Fault differentiation with manual reset (thermal overload)	Provides indication between an overload trip and a short circuit trip.	Advanced control units only	24–250 Vac or Vdc (power from control unit)	LUFDH11
Fault differentiation with auto reset				LUFDA10
Thermal overload pre-alarm	Signals when the motor current reaches 1.05 of the full load setting on the control unit.	Advanced control units only	24–250 Vac or Vdc (power from control unit)	LUFW10
Motor load indication	Provides a signal proportional to the average currents in the three phases divided by the full load current setting of the control unit. The output corresponds to a load status of 0–2 times the full load setting of the control unit.	Advanced or multi-function control units	4–20 mA (requires separate 24 Vdc power supply)	LUFV2
Parallel wiring	Provides a convenient way to reduce control wiring and allow for connecting starters to a communications network by providing 24 Vdc for the starters.	Advanced or multi-function control units (24 Vdc only) and LU9BN11C or LU9MRC prewired connector	LU9G02 splitter box and PLC network	LUFC00



Control Unit Multifunction



Alarm Differentiation



Parallel Wiring



Motor Load Indicator

[8] See Power Base and Plug-in Accessories, page 18-24 for placement on the power base.

[9] Voltage code required.

[10] The control unit contains solid-state overload relay and control power source for TeSys U. For more details on the different control units, their functions, and placement on the power base see Power Base and Plug-in Accessories, page 18-24.

[11] Control units for 4.5–18 and 8–32 can be used only with 32 A rated power bases (LUB32, LUB320, and LU2B32).

[12] Complete the catalog number by adding the appropriate code from Table 18.92 Voltage Codes, page 18-25 (for example, LUCAX6FU).

[13] DC voltage with range of 0.90 to 1.10 of nominal.

[14] Voltage code to use for a power base with a communication module.

[15] 48–72 Vdc; 48 Vac

[16] See Power Base and Plug-in Accessories, page 18-24 for placement on the power base.

[17] Increases the breaking capacity of the motor starter.

[18] Offers motor management system capabilities. For more details see the LUCM on Communication Modules and Control Circuit Accessories, page 18-26

[19] Offers customization for specific application requirements.