

For detailed information about TeSys U, visit www.schneider-electric.com/us.



Power Base

TeSys U Selection

The NEMA style TeSys U motor starter is an integrated product—simple to choose and to install—consisting of a control unit snapped into a power base. TeSys U can be configured to fit specific applications as well. The NEMA style TeSys U starter uses the same optional accessories—reverser, current limiter, predictive maintenance options, and communication options—as the IEC TeSys U.

Selecting a NEMA TeSys U Motor Starter in Three Steps



Table 16.30: Step 1. Select Power Base

Control Connection	NEMA Size	Max. hp, Three Phase				Max. hp, Single Phase		Power Bases Catalog Number
		200/208 V	220/240 V	460 V	575/600 V	120 V	240 V	
With screw terminations	1	7.5	7.5	10	10	2	3	LUB32NR

Table 16.31: Voltage Codes

Volts	24	48–72	110–240
DC	BL ^[1]	—	—
AC	B	—	—
DC or AC	—	ES ^[2]	FU

Table 16.32: Step 2. Select Control Unit ^[3]

Setting Range A	Standard 3-phase Class 10 trip ^[4]	Advanced 3-Phase Class 10 trip ^[4]	Advanced Single-Phase Class 10 trip ^[4]	Advanced 3-Phase Class 20 trip ^[4]
0.15–0.6	LUCAX6**	LUCBX6**	LUCCX6**	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 16.33: Step 3. Select Auxiliary Contacts (optional)

Terminals	Contact Indicates	Normal Contact Status	Contact State for Each Mode ^[5]						Catalog Number
			Off	Ready	Run	Short Circuit Trip	Overload Trip (Manual Reset)	Overload Trip (Remote/Auto Reset) ^[6]	
			Ready condition	Fault condition	Ready condition	Fault condition	Ready condition	Fault condition	
Screw	Ready condition	N.O.	O	I	I	O	O	I	LUA1C11
	Fault condition	N.C.	I	I	I	O	O	I	
Screw	Ready condition	N.O.	O	I	I	O	O	I	LUA1C20
	Fault condition	N.O.	O	O	O	I	I	O	



Control Unit



Auxiliary Contact

Table 16.34: TeSys U Auxiliary Contact Function Modules

Terminals	Contact Indicates	Normal Contact Status	Catalog Number
Screw	Power pole status	2 N.O.	LUFN20
Screw	Power pole status	1 N.O. and 1 N.C.	LUFN11
Screw	Power pole status	2 N.C.	LUFN02

Table 16.35: TeSys U Accessories

Accessories for LUB32NR	Quick Description	For details and selection, see pages:
Current limiter	Increases the breaking capacity to 130kA @ 460 V	18-25
Reverser	Stacked or side mounted (LU6MB0** ^[4] only)	18-25
Line phase barrier	Required for use as a self-protected combination starter (UL508 Type E)	18-25
Multifunction control unit	Has functions for monitoring and predictive maintenance	18-25
Function modules	Fault differentiation, thermal overload, motor load indication	18-25
Communication modules	Integrates into existing networks, major protocols available	18-26
Soft starter + TeSys U	Use Altistart U01Soft Starter with TeSys U	18-42
Power bus bars	TeSys U cabling accessory	18-26
Control circuit accessories	Control circuit contact block, external handles, and control circuit filters	18-26

Accessories and Dimensions: See Section 18.



E164862
CCN NLDX



LR43364
Class 3211 08



^[1] DC voltage with range of 0.90 to 1.10 of nominal.

^[2] 48–72 Vdc; 48 Vac

^[3] 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 Section 18.

^[4] Complete the catalog number by adding the appropriate voltage code from Table 16.31. For example: LUCAX6FU.

^[5] I = closed contact; O = open contact

^[6] Requires a multifunction or advanced control unit, plus fault differentiation module LUFDDA10.