

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



Power Base

TeSys™ Ultra Selection

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

Selecting a NEMA TeSys Ultra Motor Starter in Three Steps



Table 16.27: 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 16.28: Voltage Codes

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

Table 16.29: 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 16.30: Step 3. Select Auxiliary Contacts (optional)

Auxiliary Contact Blocks									
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]	
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	

Table 16.31: TeSys Ultra Auxiliary Contact Function Modules

Terminals	Contact Indicators	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 16.32: TeSys Ultra 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™ Ultra	Use Altistart U01Soft Starter with TeSys™ Ultra	18-42
Power bus bars	TeSys™ Ultra 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 Ultra. 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 16.28](#). For example: LUCAX6FU.

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

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