

LX_VMA v1.0

***Voltage Match for Digital LX AVR's
with A1 A2 input***



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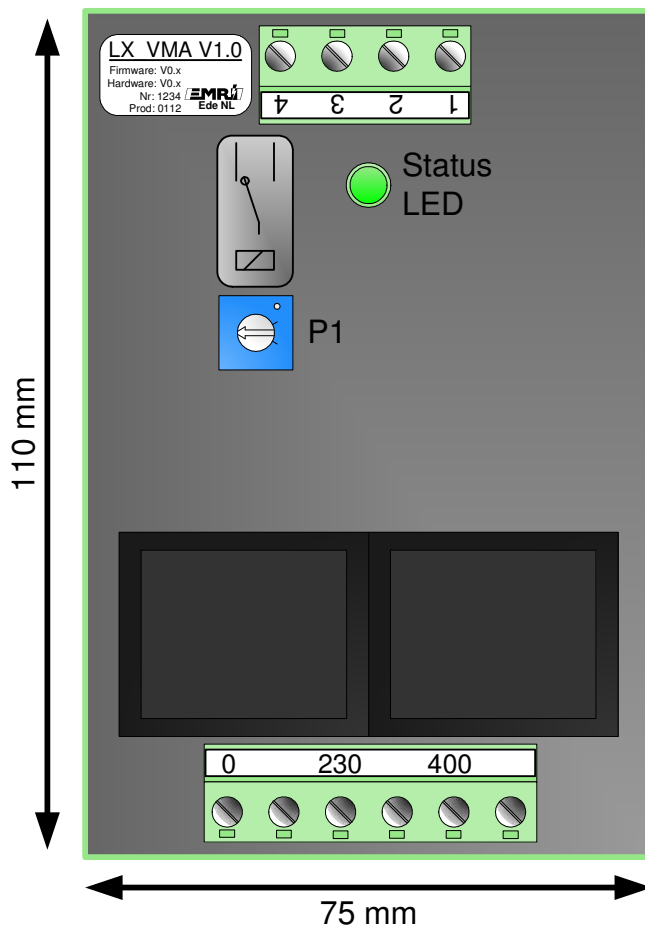
Quick Reference



The Voltage Matching Auxiliary (LX_VMA) unit can be connected to the auxiliary input A1/A2 of the LX Automatic Voltage Regulator's. When input 1-2 is closed and mains voltage is applied, then LX_VMA will be active. This is visualized by the green status LED that will turn ON. The LX_VMA adjusts the generator voltage by means of two phase mains sensing connected to the net sensing inputs 0 – 230V or 0 – 400V. By opening input 1-2 the LX_VMA will be de-activated and the AVR will control the voltage according to it's own voltage setpoint. When the LX_VMA is de-activated the status LED will turn OFF.

Values noted in this document apply to the EMRI LX449 AVR's. Other AVR's can be connected but influence could differ.

Q.1 Terminals



Terminal	Description	Notes
1	Enable contact input	
2	Enable contact input	
3	Ouput +	
4	Ouput -	
0	Input sensing voltage	Common
230	Input sensing voltage	
400	Input sensing voltage	

Table 1. Terminals

Q.2 Characteristics

Terminal	Parameter	Condition	Min.	Typ.	Max.	Unit
1,2	Input	Potential free contact	-	Closed Open	-	ON OFF
3,4	Output	Mains 400V/50Hz	-	8	-	V _{DC}
0, 230	Input 230V sensing	50/60Hz	100	230	250	V _{AC}
0, 400	Input 400V sensing	50/60Hz	100	400	480	V _{AC}
	Mounting	DIN rail				

Table 2. Electrical characteristics

Q.3 Absolute maximum ratings

Terminal	Parameter	Condition	Min	Typ.	Max.	Unit
1,2	Input	Potential free contact	-	Closed	-	
3,4	Output		0	-	10	V _{DC}
0, 230	Input 230V sensing		100	230	290	V _{AC}
0, 400	Input 400V sensing		100	400	500	V _{AC}

Table 3. Absolute maximum ratings

Q.4 Settings

Symbol	Parameter	Condition
P1	Voltage match setpoint	C.C.W. = lower setpoint C.W. = higher setpoint
Status LED	Voltage match active	On = Active Off = Not Active

Table 4. Settings

Stresses above those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operation listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability and lifetime.

Q.4 Connection diagram

