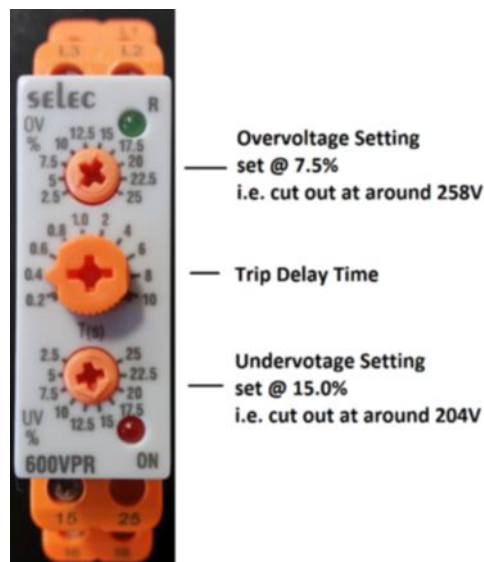


Voltage Protection Relay - 1 Phase

Extract from the Enemalta Network Code:

"DPC4.2.2 - Enemalta shall operate the distribution system so as to ensure that the voltage at the supply terminals, as defined in MSA EN 50160:2001, 'Voltage characteristics of electricity supplied by public distribution systems', complies with that standard. In line with these standards the low voltage range tolerance shall be 230V +/- 10% (phaseneutral)."

Brand:	Selec
Product No.:	600VPR-1-170/290
Description:	Voltage Monitoring Relay with preset limits for Under and Over Voltage



1 - Device front face showing Overtension, Time Delay and undervoltage Settings

Local Settings on Device:

The device is designed to work on a system voltage of 240V ac. It has over and under voltage limit settings as follows:

Nominal Voltage of 240V AC			
Overvoltage % Setting	Cut-Out if voltage goes above:	Undervoltage % Setting	Cut-Out if voltage goes below:
2.5	246	2.5	234
5.0	252	5.0	228
7.5	258	7.5	222
10.0	264	10.0	216
12.5	270	12.5	210
15.0	276	15.0	204
17.5	282	17.5	198
20.0	288	20.0	192
22.5	294	22.5	186
25.0	300	25.0	180

Clearly, in order for the device to operate as close as possible to Enemalta’s low voltage range tolerance of 230V +/- 10%, the device has to be set as follows:

Over Voltage Knob: 7.5%
Under Voltage Knob: 15.0%
Trip Delay Time: 0.4s