
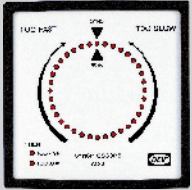


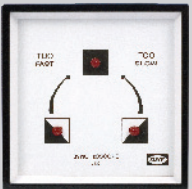

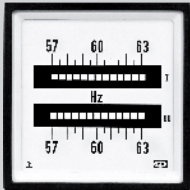

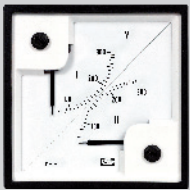



	LED Synchrosopes, RSQ-3 	Check Synchronising Relays, CSQ-3 	
Main function:	Electronic synchroscope.	Combined check synchronising relay and synchroscope.	
Size (mm):	Q96	Q96	
Customised scale:	✓	✓	
Exchangeable scale:	–	–	
Protection IP52:	✓	✓	
Protection IP54 on request:	–	–	
Mains voltage:	100...127V AC (115V AC) 220...240V AC (230V AC) 380...415V AC (400V AC) 440...480V AC (450V AC)	100...127V AC (115V AC) 220...240V AC (230V AC) 380...415V AC (400V AC) 440...480V AC (450V AC)	
Frequency range:	40...70 Hz	40...70 Hz	
Contact rating:	–	250 V - 8 A - 2000 VA (AC) 24 V - 8 A - 200 W (DC)	
Approved by classification societies:	–	✓	
	Phase Sequence Meters, PHQ 	Phase Sequence Relays, RMT-111Q96 	Lamp Synchrosopes, LSQ 
Main function:	PHQ is a solid state phase sequence meter provided with 2 glow discharge lamps for indication of correct or incorrect connection of the phases and phase breakage.	RMT-111Q96 is a phase sequence relay with contacts and is applied for check of the phase sequence. Provided with long-life LED indicators.	Lamp synchroscope for indication of phase sequence accordance between generator and busbar prior to connection.
Size (mm):	Q96	Q96 (flush mounting)	Q96, Q144
Customisable scale:	✓	✓	✓
Exchangeable scale:	–	–	–
Protection IP52:	✓	✓	✓
Protection IP54 on request:	✓	✓	–
Mains voltage:	380...440V AC	230V AC ±20% Max. 3 W 400V AC ±20% Max. 3 W	100-110 / 220-230-240 / 380-415-440V AC ±20%
Frequency range:	45...65 Hz	47...63 Hz	40...70 Hz
Relay output:	–	Changeover switch	–
Approved by classification societies:	–	✓	–

	Double Frequency Meters, 2FQ 	Double Frequency Meters, 2FTQ 	Zero Voltage Meters, NEQ 
Main function	Double pointer frequency meter, based on 2 moving coil instruments mounted diagonally. Accurate and linear read-out.	Double reed frequency meter with 2 rows of reeds.	Zero voltage meter for indication of voltage match between generator and busbar prior to connection.
Size (mm):	Q96	Q96, Q144	Q72, Q96
Pointer deflection:	90°	–	90°
Customised scale:	✓	✓	✓
Exchangeable scale:	–	–	–
Protection IP52:	✓	✓	✓
Protection IP54 on request:	–	✓	–
Accuracy class:	0.5	0.5	1.5 and 3.0
Scale/measuring range:	45...55 / 55...65 / 45...65 Hz Others on request	45...55 / 57...63 / 55...65 Hz	110-220 / 220-440 / 400-800V AC (1.5...4 VA)
Measuring voltage:	100...230V AC ±15% 400...440V AC ±15%	100-110-220-230-240-380-400-415-440V AC ±15%	–
	Double Voltmeters, 2EVQ 	Double Voltmeters, 2EQ 	
Main function:	Double voltmeter based on 2 moving iron systems mounted diagonally.	Double voltmeter based on 2 independent moving iron systems with joint scale.	
Size (mm):	Q96	Q96	
Pointer deflection:	90°	90°	
Customised scale:	✓	✓	
Exchangeable scale:	–	–	
Protection IP52:	✓	✓	
Protection IP54 on request:	–	–	
Accuracy class:	1.5	1.5	
Scale/measuring range:	0...150 / 300 / 600 V	0...150 / 250 / 500 V	
Measuring frequency:	50 or 60 Hz	50 or 60 Hz	

Electronic Potentiometers, EPQ96-2



Main function:	Maintenance-free electronic potentiometer for control of AVR's and speed governors.
Size (mm):	Q96
Start/end value adjustment:	-/+10 V or -/+20 mA
PWM output:	0...6V DC 500 Hz ±50 Hz
Ripple:	2.5 mV or 5 uA RMS (13 bit)
Resolution:	5 m DC (12-bit D/A-converter)
Integrating time:	2.5...25 s or 12.5...125 s
Response time:	< 0.1 s
Accuracy of adjustment:	±20% of potentiometer full scale
Supply voltage:	12...24V DC -25%/+30%
Protection:	IP52 (panel front), IP20 (panel rear)