

60A Automatic Transfer Switch.

Description	
Part Number	CS-R60-4P
Conformity	Conforms to: BS EN 60947-6-1:2005 and later amendments BS EN 60947-1
Type	PC ATSE
Utilization Category	AC1
Ratings	415V 50/60Hz, 10KA, 60A

Function	
On Failure of Supply 1	<ol style="list-style-type: none"> Supply 1 contactor drops out and no supply is active. Relay R1 opens Timer TD2 activates for transfer delay After transfer delay Supply 2 contactor engages to supply the load
On Return of Supply 1	<ol style="list-style-type: none"> Delay timer of Phase Failure Relay activates to avoid nuisance tripping (0 to 60s for tolerances, instant for phase failure) Supply 2 contactor drops out and no supply is active. Timer TD1 activates for transfer delay After transfer delay Supply 1 contactor engages to supply the load
Manual / Auto Switch	
Man Mode	Switches over to Supply 2 from Supply 1
Auto Mode	Supply 1 active unless phase failure conditions are present.

Contactors	
Poles	4P
Maximum Thermal Current	60A (AC1)
Maximum Operating Rate (Operations / Hour)	3600
Average Coil Consumption (Inrush / Sealed)	200/20 VA
Heat Dissipation	6 to 10 W
Mechanical Life (Millions of Operations)	16

Connection	
Power Contact Terminal Capacity	16mm ²

Transfer Delay Timers	
Description	
TD1	Supply 2 delay
TD2	Supply 1 return delay
Feature Characteristics	
Timing Mode	On Delay
Set Time (adjustable)	0.1 seconds to 30 hrs

Phase Failure Relay	
Supply Characteristics	
Supply Voltage	UN (380...415) V AC (50/60 Hz), 3-Ph 4-Wire
Supply Variation	Umin 220 V AC, Umax 510 V AC
Frequency	47 to 63Hz
Power Consumption (Max)	11 VA (Max)
Settings	
Trip Levels :	
Under Voltage Over Voltage Trip Delay Asymmetry	Minimum voltage selector (300...400)V
	Maximum voltage selector (380...480)V
	Switch-off delay time (T on function diagrams) adjustable (0.5...60)s
	Asymmetry adjustable (4...25)% UN
Functions	
LED Indications	Window mode (overvoltage + undervoltage)
	Phase loss and rotation monitoring
	Asymmetry and Neutral loss
	Healthy
	Phase Loss
Phase Rotation	OV
	UV
	Neutral loss
	Asymmetry

Enclosure	
Dimensions	500x400x210mm
Gland Plates	Bottom
Material	Mild Steel (Powder epoxy coated)

Panel LED Indications	
Supply 1	Available (White), On Load (Green)
Supply 2	Available (White), On Load (Amber)

