C&S electric

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RoHS Compliant

Automatic Transfer Switch

CATS

- Automatic Transfer switch with inbuilt micro processor based AMF controller
- AC 32B Utilization Category and in coherence with IEC-60947-6-1
- Source I & Source II protection against under/over voltage, Single phase missing
- External remote control logic by using PLC, ATS Controller or Genset Controller
- Automatic start/stop operation of DG on mains failure
- Inbuilt control switch for selecting auto/manual mode
- High capacity to withstand short circuit
- External indication terminal output for Source healthy and load ON
- Inbuilt fuse protection to avoid failure of AMF controller
- 3 Position isolation lock for Source I - Off - Source II

We touch your electricity everyday!

Features:

- Smooth and high-speed load transfer in the event of power outage or disturbances in the power supply
- Systematized with time delays (timers) to prolong the stability of power source during automatic switching of sources in the case of blackout or loss of power
- Facilitates easy installation and ensures reliable performance



Applications:

- Airport and Railways
- IT Malls and Commercial buildings
- Automobile Industries
- Data Centre and Telecommunications
- Oil and Gas Industries
- Manufacturing Industry
- Healthcare
- Banking and Finance







Automatic Transfer Switch

CATS

Technical Characteristics

Electrical Characteristics

Rated Current (A)	40/63/80	100/125	160/200/250	315/400/630	800	1000~1600	2000~3200
No. of Poles	4	4	4	4	4	4	4
Rated Operating Voltage	415V	415V	415V	415V	415V	415V	415V
Rated Insulation Voltage (Ui) V - Power Circuit	690V	690V	690V	690V	690V	690V	690V
Rated Insulation Voltage (Ui) V - Control Circuit	500V	500V	500V	500V	500V	500V	500V
Rated impulse withstand voltage (Uimp) - Power Circuit	8kV	8kV	8kV	12kV	12kV	12kV	12kV
Rated impulse withstand voltage (Uimp) - Control Circuit	4kV	4kV	4kV	4kV	4kV	4kV	4kV
Utilization Category	AC - 32B	AC - 32B	AC - 32B	AC - 32B	AC - 32B	AC - 32B	AC - 32B
Rated control Power supply Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Rated short circuit withstand current (kA, rms) Icw (0.1/1s)	7/5 kA	9/5 kA	25/12 kA	50/25 kA	50/25 kA	65/50 kA	75/50 kA
Rated short circuit Making Capacity (KA, Peak) Icm	8 kA	8 kA	17 kA	26 kA	55 kA	55 kA	55 kA
Rated Limit short circuit current (KA) Iq	120 kA	120 kA	120 kA	120 kA	120 kA	120 kA	120 kA
Operating Cycle	10000	10000	8000	6000	5000	5000	5000
Motor operating Voltage	220V AC/50Hz	220V AC/50Hz	220V AC/50Hz	220V AC/50Hz	220V AC/50Hz	220V AC/50Hz	220V AC/50Hz
Auxiliary DC voltage	12-24V DC	12-24V DC	12-24V DC	12-24V DC	12-24V DC	12-24V DC	12-24V DC
Standard	IEC60947-6-1						

Program Configuration	
Primary Source (40-48Hz)/Over Frequency (50-60Hz) and Phase sequence Enable/Disable	Under Voltage(160-210V)/Over Voltage (240-285V), Over Load with external CT, Under Frequency Over Frequency, Phase sequence, Enable/Disable
Secondary Source (40-48Hz)/Over Frequency (50-60Hz) and Phase sequence Enable/Disable	Under Voltage(160-210V)/Over Voltage (240-285V), Over Load with external CT, Under Frequency Over Frequency, Phase sequence, Enable/Disable
Timers	Recovery delay (0 to 300s), Transfer delay (0 to 300s), Generator Start delay (0 to 60s), Generator stop delay (0 to 900s)
Priority selection	Primary/Secondary source
AC System Selection	3Phase /1Phase for Both Sources
Phase Sequence	Enable/Disable
Applications	
Transfer Between Main Power to Backup Power	Applicable
Transfer between Backup Power to Main Power	Applicable
Mode of Operation	
Selection Mode	Auto / Manual / Remote
Position order	I-OFF-II
Functionality	On Load / Off Load
Manual Emergency Operation	Available
General Characteristics	
Ambient temperature	-20 to 55ºC
Air Humidity	Not more than 50% @ 40ºC
Altitude	Not more than 2000 m
Manual Emergency Operation	Available
Electromagnetic Characteristics	
Class	Class B
Radio Frequency Transmission Test	EN55011
Radio Frequency radiation Transmission Test	EN55011

Ordering Information

CATS | **1F** | **40A** – **R**

Series

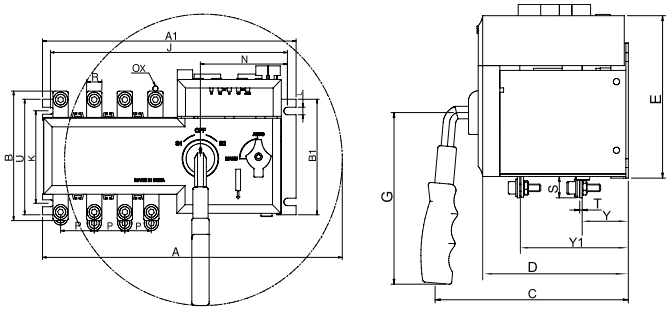
Frame Size	Current Rating
1F-Frame1	40A, 63A, 80A
2F-Frame2	100A, 125A,
3F-Frame3	160A
4F-Frame4	200A, 250A,
5F-Frame5	315A, 400A, 630A
6F-Frame6	800A, 1000A, 1200A, 1600A, 2000A, 2500A, 3200A

C
(Top Incoming, Bottom Outgoing)

R
(Bottom Incoming, Top Outgoing)

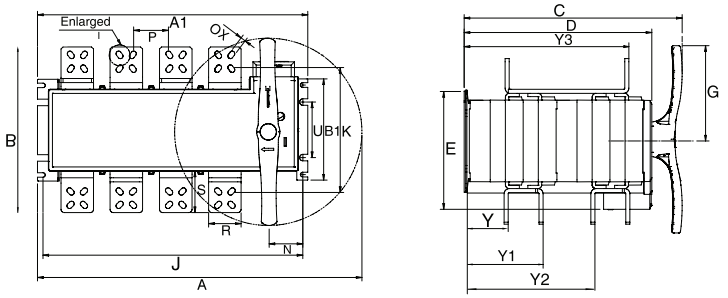
Mechanical Characteristics

Mounting	Position A	Position A	Position A	Position A	Position A	Position A
Outline Dimension in mm	226X108X195	244X119X195	302X135X204	375X165X240	436X260X290	665x350x400
Weight in kg	4	5	9	10	20	60



Mechanical Specification : 40A - 630A

Frame	Current Rating	Spec.	Outline Size (mm)						Mounting Size (mm)													
			A	A1	B	B1	C	D	E	G	J	K	L	N	P	R	S	T	U	ØX	Y	Y1
Frame 1	40/63/80A	In																				
		63	267	228	108	107	195	132	126	174	211	87	7	85	25	13	18	2.5	107	6	43	94
Frame 2	100/125A	In																				
		125	284	244	119	107	195	132	126	174	228	87	7	89	30	15	34	2.5	107	8	41	91
Frame 3	160A	In																				
		160	330	302	135	127	204	166	136	174	287	101	7	100	36	20	24	3.5	126.5	10	69	151
Frame 4	200/250A	In																				
		250	452	375	171	134	230	202	154	174	348	109	7	100	50	24	30	3.5	134	11	69	151
Frame 5	315/400/630A	In																				
		630	517	436	260	222	290	252	220	174	406	180	9	103	65	40	50	5	222	13	84	191



Mechanical Specification: 800A - 3200A

Current Rating	Outline Size (mm)						Mounting Size (mm)															
	A	A1	B	B1	C	D	E	G	J	K	L	N	P	R	S	T	U	ØX	Y	Y1	Y2	Y3
800A	845	665	350	220	400	248.3	373	450	645	220	12	85	120	60	64	8	250	12	103	227	330	427
1000A	845	665	350	220	400	248.3	373	450	645	220	12	85	120	60	64	8	250	12	103	227	330	427
1250A	845	665	355	220	400	248.3	373	450	645	220	12	85	120	80	72	8	250	13	103	227	330	427
1600A	845	665	355	220	400	248.3	373	450	645	220	12	85	120	80	72	10	250	13	103	227	330	427
2000A	845	665	355	220	530	448.1	373	450	645	220	12	85	120	80	72	10	250	13	103	227	330	427
2500A	845	665	384	220	530	448.1	373	450	645	220	12	85	120	80	90	15	250	13	103	227	330	427
3200A	845	665	384	220	530	448.1	373	450	645	220	12	85	120	120	90	15	250	13	103	227	330	427

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