



MTS

Manual Transfer Switch

User-friendly Installation | Safe Changeover

MANUALLY CONTROL YOUR POWER SOURCE

Elmeasure Manual Transfer Switch (MTS) is designed to provide smooth and safe transmission of load from one power source to another and back again. MTS is reliable, safe and is operated with a single handle manually to ensure supply continuity

Features:

- MTS has a 3 position switch I-O-II
- Conformity to IS/IEC 60947-3
- Utilization category AC 23
- Robust and easy-to-use
- Modular and compact design
- Designed to withstand high thermal conditions
- Wide range from 63 to 630A
- Operating handle with provision to lock in ON/OFF position
- User-friendly installation and operation
- Quick-make & quick-break operation for transferring of loads
- Tolerance to high electrical and mechanical characteristic
- Incoming and outgoing terminal interchangeability
- Terminals suitable for aluminum and copper conductor Connectivity.

Benefits:

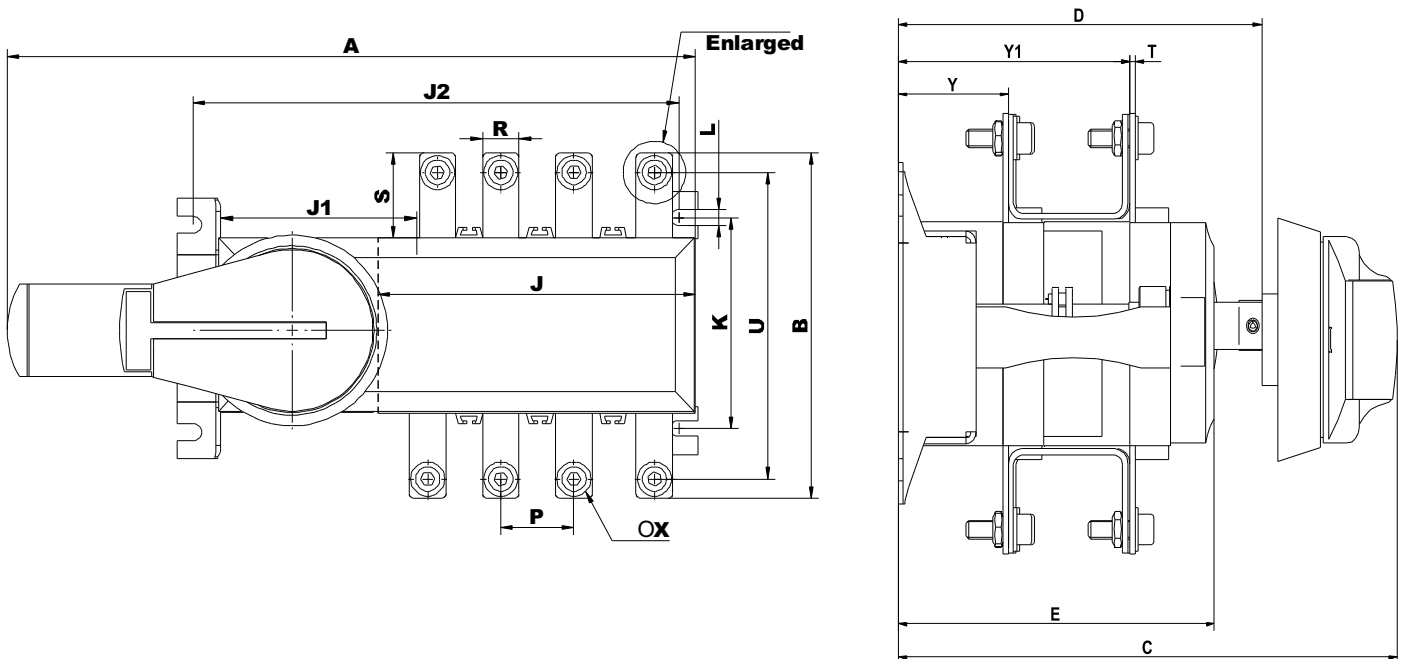
- The safest changeover during the failure of a primary source
- High short-circuit withstand capacity
- facilitate easy installation and simplified wiring connections
- Reliable and maintenance free operation.
- Reduce installation time and cost.
- High electrical and mechanical life
- Customized Incoming and Outgoing Terminal interchangeability
- Terminal shrouds and phase barriers provides complete safety
- Rugged design to compact environmental conditions

Application:

- Generator OEM's
- Commercial buildings
- Automobile Industry
- Manufacturing Industry
- Power distribution and Load Management

Mechanical Specification (mm)

63 - 630A



Specifications	Dimensions Details																	
	A	B	C	D	E	J	J1	J2	K	L	P	R	S	T	U	ØX	Y	Y1
63A-630A 4 POLE MTS DIMENSIONS																		
MTS-63A	265	116	185	140	125	125	82	200	86	6.5	30	13	23	2.5	103	8	42	92
MTS-100A	265	116	185	140	125	125	82	200	86	6.5	30	13	23	2.5	103	8	42	92
MTS-FR1-125A	265	116	185	140	125	125	82	200	86	6.5	30	13	23	2.5	103	8	42	92
MTS-FR2-125A	327	139	235	185	165	173	97	257	102	6.5	35	22	26	3.5	115	8	57	127
MTS- 160A	315	135	220	185	165	173	95	255	102	6.5	38	25	25	3.5	115	8	56	126
MTS-200A	370	185	225	215	200	228	95	305	110	6.5	55	25	40	3.5	148	10.8	72	153
MTS-250A	370	185	225	215	200	228	95	305	110	6.5	55	30	40	3.5	148	10.8	72	153
MTS-315A	370	185	255	215	200	228	95	305	108	6.5	55	30	40	3.5	148	12	72	152
MTS-400A	500	241	320	265	245	290	110	385	180	9.5	72	40	40	5	205	12	83	195
MTS-630A	500	260	320	265	245	290	117	385	180	9.5	65	42	55	6	225	12	83	195

* 125A FR2 on Request only.

Technical Specification:

	MTS 63A-4P	MTS 100A-4P	MTS -FR1 125A-4P	MTS 160A-4P	MTS 200A-4P	MTS 250A-4P	MTS 315A-4P	MTS 400A-4P	MTS 630A-4P
GENERAL CHARACTERISTICS									
Thermal current I_{th} (40°C)	63 A	100 A	125 A	160 A	200 A	250 A	315 A	400 A	630 A
Max. Normal rating of fuses	63	100	125	160	200	250	315	400	630
Insulation voltage U _i (V)	750	750	750	750	1000	1000	1000	1000	1000
Dielectric strength (V) 50 Hz 1 mn.	4000	4000	5000	5000	5000	5000	5000	8000	8000
Impulse voltage (kV)	6	6	6	6	8	8	8	12	12
Rated operational currents I_e (A)									
415 VAC-AC 23A	63	100	125	160	200	250	320	400	630
500 VAC-AC 23A	55	55	100	130	160	200	250	315	315
440 VDC-DC 21A	63	100	125	160	200	250	320	400	500
440 VDC-DC 22A	63	100	125	130	160	200	250	400	500
440 VDC-DC 23A	63	63	125	130	160	200	250	400	500
Protection									
Short-circuit current with fuses (kA rms)	80	80	80	80	80	80	80	80	80
Fuse rating	63	100	125	160	200	250	315	400	630
Peak short-circuit making capacity (kA rms)	15	15	20	20	20	30	45	45	45
Admissible short time current 1 sec (kA rms)	5	5	7	7	7	9	13	13	13
Making & Breaking Characteristics									
Breaking Capacity (Arms) 415 VAC pf-0.35	504	504	1000	1280	1600	2000	2520	3200	5040
Making Capacity (Arms) 415 VAC pf-0.35	630	630	1250	1600	2000	2500	3150	4000	6300
Endurance									
Mechanical No. of Operations	10000	10000	8000	8000	8000	8000	5000	5000	5000
Electrical No. of Operations	2500	1500	1000	1000	1000	1000	1000	1000	1000
Operating Force (Nm)	3.5	3.5	9.5	9.5	9.5	11	11	17	17
Connection									
Min. Cu Cable / Bus bar size (mm ²)	16	35	50	70	95	120	185	240	40 x 8
Min. Al Cable / Bus bar size (mm ²)	25	2 x 25	70	95	150	185	240	300	40 x 8 x 2