



Metal Enclosed Door Interlocked Changeover Switches 160-800A

Technical Data

- KEMA Certified
- EN 60947-1 and 3 compliant
- IP65



It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the machinery directive and current health and safety legislation must also be adhered to.

Terminals, including factory fitted, should be checked periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS

For any further comments or assistance please contact:

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Data	Units	Range	Part Number			
			ERSMCO1603PN	ERSMCO2003PN	ERSMCO2503PN	ERSMCO3153PN
Rated Thermal Current I _{th} at 40°C	Amps	A	160	200	250	315
Rated Insulation Voltage U _i	Volts	V	1000	1000	1000	1000
Rated Dielectric Strength	Volts	kV	4	5	5	6
Rated Impulse Voltage U _{imp}	Volts	kV	8	8	8	8
Rated Operational Current I _e at 400V AC-22	Amps	A	160	200	250	315
Rated Operational Current I _e at 400V AC-23	Amps	A	160	160	160	200
Rated Operational Power I _e at 400V AC-23	Watts	kW	89	89	89	100
Rated Breaking Capacity	Amps	A	1,280	1,280	1,280	1,600
Rated Making Capacity	Amps	kV	1,600	1,600	1,600	2,000
Rated Short Circuit Making Capacity (peak value) I _{cm}	Amps	kA	13	13	13	12
Rated Short-Time Withstand Current (1sec) rms I _{cw}	Amps	kA	7	7	7	8
Minimum Number of Mechanical Operations	-	Cycles	10,000	10,000	10,000	10,000
Minimum Number of Electrical Operations @ 400 AC-23	-	Cycles	1,000	1,000	1,000	1,000
Terminal Capacity (Rigid Copper Cable)	-	mm ²	95	120	120	240
Lug Bolt Size	-	-	M10	M10	M10	M10
Maximum Size of Busbar Connection	-	mm	5x30	5x30	5x30	2x5x30
Tightening Torque	-	Nm	13	13	13	24

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Data	Units	Range	Part Number		
			ERSMCO4003PN	ERSMCO6303PN	ERSMCO8003PN
Rated Thermal Current I _{th} at 40°C	Amps	A	400	630	800
Rated Insulation Voltage U _i	Volts	V	1,000	1,000	1,000
Rated Dielectric Strength	Volts	kV	6	8	8
Rated Impulse Voltage U _{imp}	Volts	kV	8	12	12
Rated Operational Current I _e at 400V AC-22	Amps	A	400	630	800
Rated Operational Current I _e at 400V AC-23	Amps	A	250	500	630
Rated Operational Power I _e at 400V AC-23	Watts	kW	125	250	315
Rated Breaking Capacity	Amps	A	2,000	4,000	4,000
Rated Making Capacity	Amps	kV	2,500	5,000	5,000
Rated Short Circuit Making Capacity (peak value) I _{cm}	Amps	kA	12	20	20
Rated Short-Time Withstand Current (1sec) rms I _{cw}	Amps	kA	8	13	13
Minimum Number of Mechanical Operations	-	Cycles	10,000	10,000	10,000
Minimum Number of Electrical Operations @ 400 AC-23	-	Cycles	200	1,000	100
Terminal Capacity (Rigid Copper Cable)	-	mm ²	240	2x40	2x40
Lug Bolt Size	-	-	M10	M12	M12
Maximum Size of Busbar Connection	-	mm	2x5x30	2x6x45	2x6x45
Tightening Torque	-	Nm	24	45	45

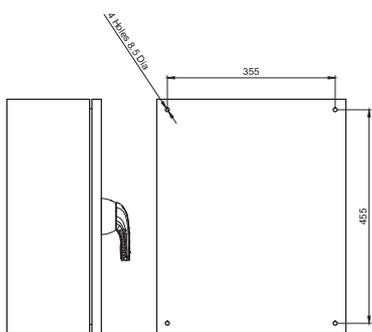
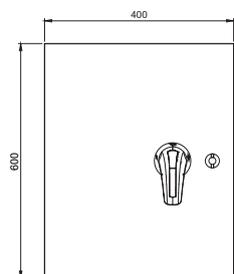
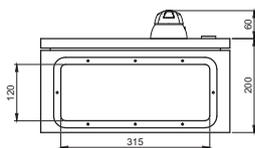
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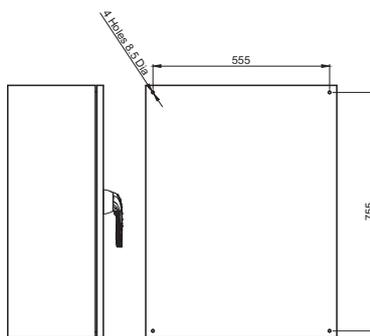
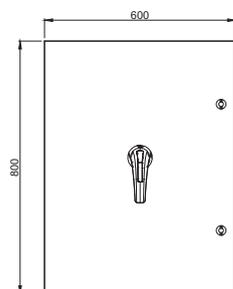
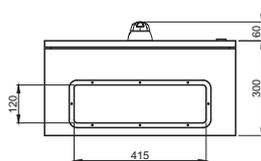


Dimensions

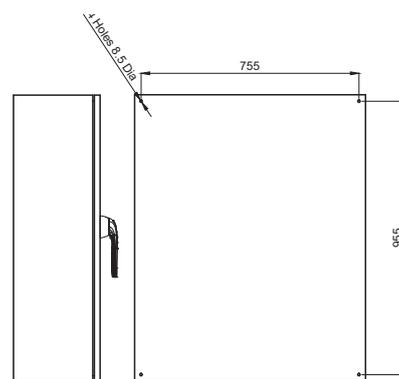
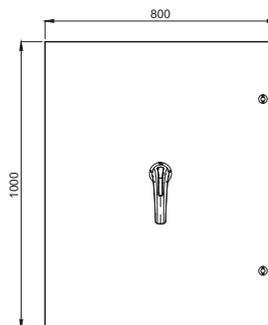
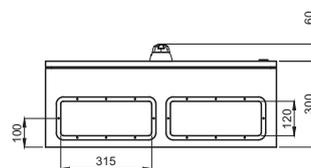
ERSMCO1603PN,
ERSMCO2003PN &
ERSMCO2503PN



ERSMCO3153PN &
ERSMCO4003PN



ERSMCO6303PN &
ERSMCO8003PN

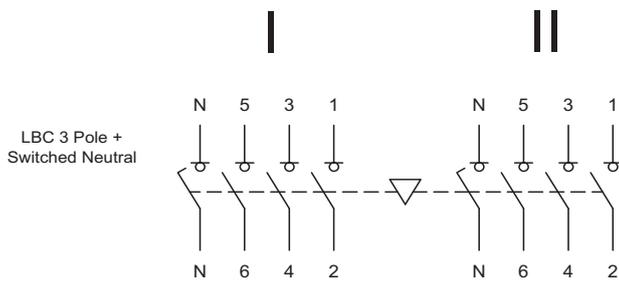


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Terminal Configuration

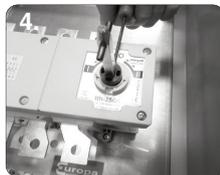


Assembly



Handle Assembly

1. Ensure that the handle is in the off position and locate the handle on to the door with the handle showing the off position at 9 o'Clock.
2. Tighten the four M5 flange nuts to 1.5Nm



Shaft Assembly

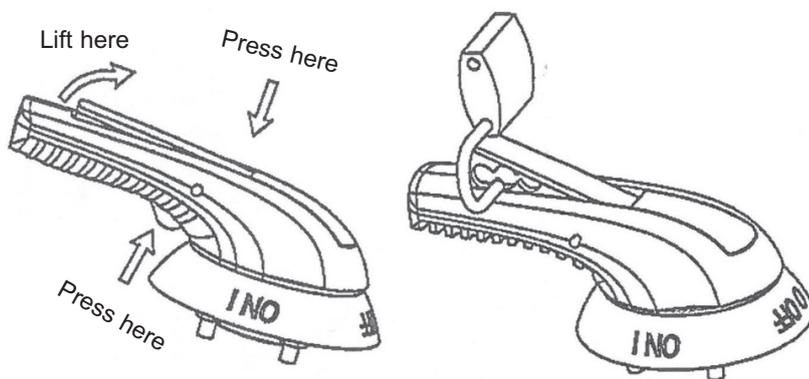
3. Ensure that the switch is in the off position and fully insert the shaft into the switch with the cross pin in a horizontal position
4. Tighten the M5 shaft grub screw to 1.2Nm using a 2.5mm A/F allen key

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Padlock Operation



Door Interlock Defeat Mechanism (For Authorised personnel only)



WARNING! ACCESS TO LIVE PARTS

- Ensure that the door is closed and the handle is in the on position
- Locate the hole on the right side of the handle, then push and hold a small pin into the hole to activate the defeat mechanism
- The door can now be opened in the on position. Remove pin and close the door to reset the mechanism

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