



Trapped Key ISOLATOR SWITCH – Types ISB1, ISB2, ISP

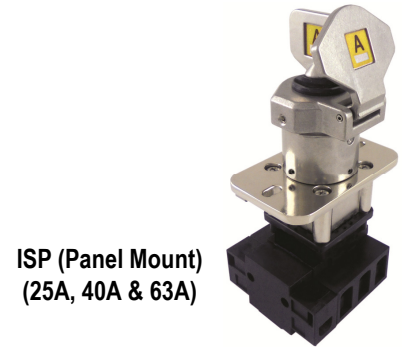
Operating Instructions



ISB1
(25A & 40A)



ISB2
(63A)



ISP (Panel Mount)
(25A, 40A & 63A)

READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING, OPERATING, OR MAINTAINING THIS EQUIPMENT.

The product is designed to be a component of a customized safety oriented control system. It is the responsibility of the user to ensure the correct overall functionality of its systems and machines. IDEM, its subsidiaries and affiliates, are not in a position to guarantee all of the characteristics of a given system or product not designed by IDEM.

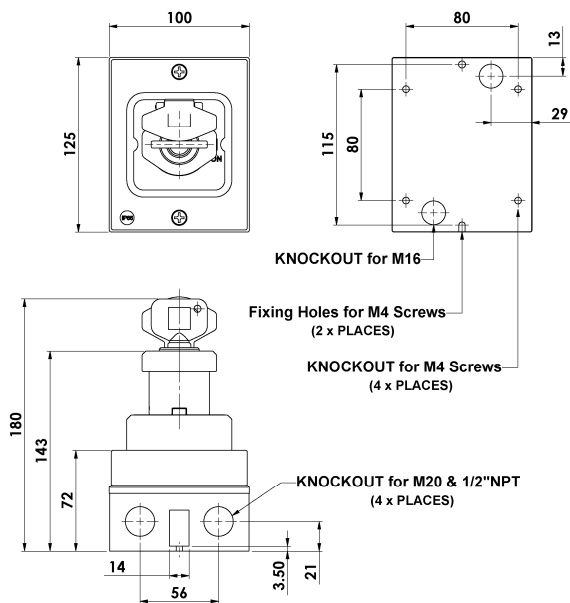
WARNING:

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.

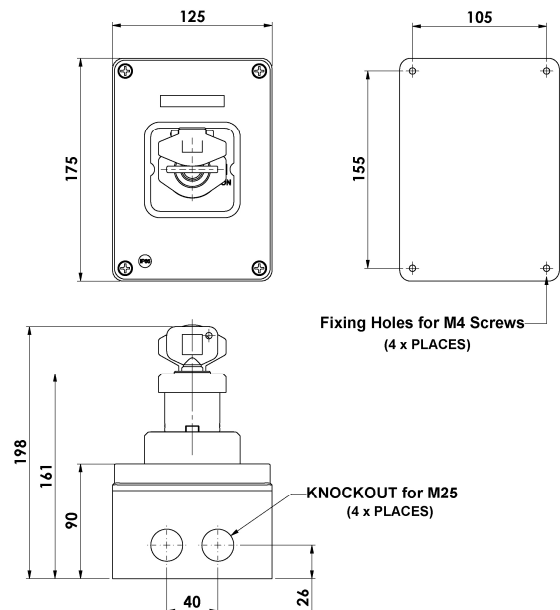
MAINTENANCE: Every month: Check correct operation of all circuits. If the key or housing display signs of mechanical damage then remove and replace. IDEM will not accept responsibility for failure of the interlock functions if the installation and maintenance requirements are not implemented. THESE INSTRUCTIONS FORM PART OF THE PRODUCT WARRANTY.

PRODUCT DIMENSIONS (mm):

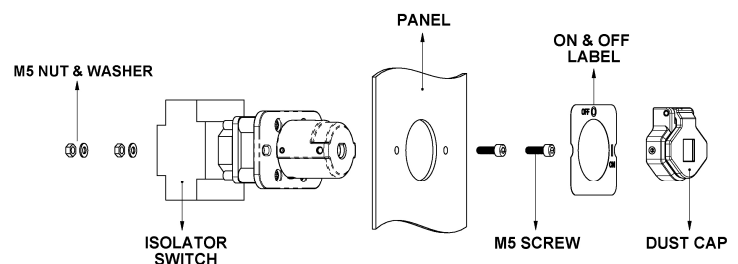
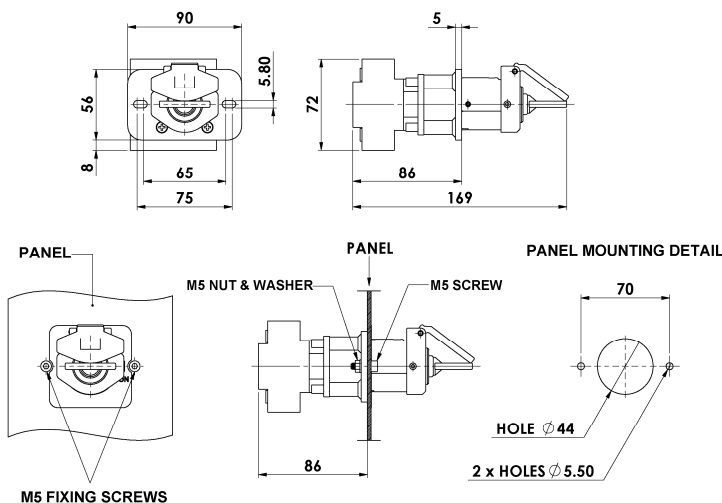
ISB1



ISB2



ISP

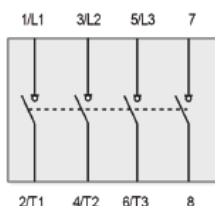


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TECHNICAL SPECIFICATIONS (ISOLATOR BLOCK):

			ISB1 25A	ISB1 40A	ISB2 63A	ISP 25A	ISP 40A	ISP 63A	
IEC & EN	Volts	V	690	690	690	690	690	690	
UL	Volts	V	600	600	600	600	600	600	
Main switch isolating voltage up to	Volts	V	750	750	750	750	750	750	
Rated impulse withstand voltage Uimp	Volts	kV	6	6	6	6	6	6	
Rated uninterrupted current Iu	Amps	A	20	32	40	25	40	63	
Rated Operational Current Ie									
IEC & EN	AC-22A	Up to 690V	A	20	32	40	25	40	63
	AC-21A	Up to 690V	A	25	40	63	32	63	80
	AC-1	Up to 690V	A	25	40	63	32	63	80
Rated Operational Power AC-23A (50-60Hz)									
IEC & EN	3 Phase	220- 240V	kW	7.5	15	22	11	22	30
		380- 440V	kW	15	22	45	22	45	45
		500- 690V	kW	15	22	45	22	45	45
Rated Operational Power AC-3 (50-60Hz)									
IEC & EN	3 Phase	220- 240V	kW	5.5	11	15	8	15	22
		440V	kW	11	15	30	15	30	30
		690V	kW	11	15	30	15	30	30
UL Power Rating									
DOL	3 Phase	120V	hp	1.5	3	5	3	5	7.5
		240V	hp	3	7.5	10	7.5	10	15
		480V	hp	7.5	20	20	15	20	25
		600V	hp	10	25	30	20	30	30
	1 Phase	120V	hp	0.5	2	3	1.5	3	3
		240V	hp	1.5	3	5	2	5	7.5
UL Short Circuit Ratings									
Fuse Rating, Class J	Amps	A	-	45	70	45	70	70	
Fuse Rating, Class RK5	Amps	A	20	-	-	-	-	-	
Rated Fuse Short Circuit Current	Amps	kA	10	10	10	10	10	10	
Short Circuit Capacity (IEC)									
Maximum Fuse Size Type gl	Amps	A	20	32	63	32	63	63	
Rated Fuse Short Circuit Current	Amps	kA	5	30	30	30	30	30	
Terminal Specification									
Single/Multiple Strand Wire	Min-mm ²	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	Max-mm ²	10	10	25	10	25	25	25	
Fine Strand with Sleeve	Min-mm ²	0.75	0.75	2.5	0.75	2.5	2.5	2.5	
	Max-mm ²	6	6	10	6	10	10	10	
American Wire Gauge	AWG	10	10	6	10	6	6	6	
Recommended Tightening Torque	Nm	1.7	1.7	2.0	1.7	2.0	2.0	2.0	

SCHEMATIC:



Procedure to dismantle the cover (ISB1 & ISB2):

ISOLATE POWER.
ENSURE SWITCH IS IN THE OFF POSITION.
UNSCREW THE COVER SCREWS AND REMOVE COVER.
AFTER WIRING ENSURE COVER IS FITTED TO ORIGINAL POSITION.
DO NOT OVERTIGHTEN THE COVER SCREWS (RECOMMENDED TORQUE 0.5Nm).

TECHNICAL SPECIFICATION:

Mechanical Life (B10d)
Ambient temperature

1,000,000 cycles.
-20C / 40C.