

Product data sheet

Specifications



switch disconnecter, Compact INV160, visible break, 160 A, standard version with black rotary handle, 4 poles

31165

Main

Range	ComPact
Product name	Compact INV
Product or component type	Switch disconnecter
Poles description	4P
Network type	DC AC
Network frequency	50/60 Hz
Handle colour	Black
[Ie] rated operational current	AC-21A: 160 A AC 50/60 Hz 220/240 V AC-21A: 160 A AC 50/60 Hz 380/415 V AC-21A: 160 A AC 50/60 Hz 440/480 V AC-21A: 160 A AC 50/60 Hz 480 V NEMA AC-21A: 160 A AC 50/60 Hz 500/525 V AC-21A: 160 A AC 50/60 Hz 660/690 V AC-22A: 160 A AC 50/60 Hz 220/240 V AC-22A: 160 A AC 50/60 Hz 380/415 V AC-22A: 160 A AC 50/60 Hz 440/480 V AC-22A: 160 A AC 50/60 Hz 480 V NEMA AC-22A: 160 A AC 50/60 Hz 500/525 V AC-22A: 160 A AC 50/60 Hz 660/690 V AC-23A: 160 A AC 50/60 Hz 220/240 V AC-23A: 160 A AC 50/60 Hz 380/415 V AC-23A: 160 A AC 50/60 Hz 440/480 V AC-23A: 160 A AC 50/60 Hz 480 V NEMA AC-23A: 160 A AC 50/60 Hz 500/525 V AC-23A: 160 A AC 50/60 Hz 660/690 V DC-21A: 160 A DC 125 V 2 poles in series DC-22A: 160 A DC 125 V 2 poles in series DC-23B: 160 A DC 125 V 2 poles in series DC-21A: 160 A DC 250 V 4 poles in series DC-22A: 160 A DC 250 V 4 poles in series DC-23B: 160 A DC 250 V 4 poles in series
[Ui] rated insulation voltage	750 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	160 A at 60 °C
[Icm] rated short-circuit making capacity	30 kA switch-disconnector alone 690 V AC at 50/60 Hz 330 kA with upstream protection circuit breaker 690 V AC at 50/60 Hz
[Ue] rated operational voltage	690 V AC 50/60 Hz 250 V DC
Suitability for isolation	Yes
Contact position indicator	Yes
Visible break	Yes

Pollution degree	3
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Complementary

Control type	Rotary handle
Mounting mode	Fixed
Mounting support	Plate Rail
Upside connection	Front
Downside connection	Front
Maximum power	AC-23: 110 kW at 500/525 V AC 50/60 Hz AC-23: 45 kW at 220/240 V AC 50/60 Hz AC-23: 45 kW at 230 V AC 50/60 Hz (NEMA) AC-23: 50 kW at 480 V AC 50/60 Hz (NEMA) AC-23: 75 kW at 380/415 V AC 50/60 Hz AC-23: 90 kW at 440 V AC 50/60 Hz AC-23: 90 kW at 660/690 V AC 50/60 Hz
Rated duty	Uninterrupted
[Icw] rated short-time withstand current	1.8 kA during 30 s conforming to IEC 60947-3 2.2 kA during 20 s conforming to IEC 60947-3 4.9 kA during 3 s conforming to IEC 60947-3 8.5 kA during 1 s conforming to IEC 60947-3
Mechanical durability	15000 cycles
Electrical durability	AC-22A: 1500 cycles 440 V AC 50/60 Hz AC-22A: 1500 cycles 500 V AC 50/60 Hz AC-22A: 1500 cycles 690 V AC 50/60 Hz AC-23A: 1500 cycles 440 V AC 50/60 Hz AC-23A: 1500 cycles 500 V AC 50/60 Hz AC-23A: 1500 cycles 690 V AC 50/60 Hz DC-22A: 1500 cycles 250 V DC DC-23A: 1500 cycles 250 V DC
Connection pitch	45 mm
Height	136 mm
Width	140 mm
Depth	96 mm
Net weight	2.2 kg

Environment

Standards	IEC 60947-1 IEC 60947-3
Product certifications	KEMA-KEUR CCC
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.900 cm
Package 1 Width	14.000 cm
Package 1 Length	16.100 cm
Package 1 Weight	2.409 kg

Unit Type of Package 2	S04
Number of Units in Package 2	9
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	22.528 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Recommended replacement(s)