

# Product datasheet

Specifications



switch disconnecter, Compact  
INS160 , 160 A, standard version  
with black rotary handle, 3 poles

28912

## Main

Range	ComPact
Product name	ComPacT INS
Product or component type	Switch disconnecter
Poles description	3P
Network type	DC AC
Network frequency	50/60 Hz
[Ie] rated operational current	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 DC-22A: 160 A DC 125 V 2 poles in series AC-22A: 160 A AC 50/60 Hz 500 V 2 poles in series AC-22A: 160 A AC 50/60 Hz 660/690 V AC-23A: 100 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 500 V DC-22A: 160 A DC 50/60 Hz 125 V 2 poles in series DC-23A: 160 A DC 50/60 Hz 125 V 2 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	154 kA with upstream protection circuit breaker 690 V AC at 50/60 Hz 20 kA switch-disconnector alone 690 V AC at 50/60 Hz
[Ue] rated operational voltage	125 V DC 690 V AC 50/60 Hz
Suitability for isolation	Yes
Contact position indicator	Yes
Visible break	No
Pollution degree	3

## Complementary

Control type	Rotary handle
Handle colour	Black
Mounting mode	Fixed

Mounting support	Plate DIN 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: 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
Intermittent duty class	Class 120 - 60 %
Enclosure dimensions for lthe	260 mm x 160 mm x 55 mm
[lcw] rated short-time withstand current	0.01 kA during 30 s conforming to IEC 60947-3 1.23 kA during 20 s conforming to IEC 60947-3 3.175 kA during 3 s conforming to IEC 60947-3 5.5 kA during 1 s conforming to IEC 60947-3
Mechanical durability	15000 cycles
Electrical durability	AC-22A: 1500 cycles 220/240 V AC 50/60 Hz AC-22A: 1500 cycles 380/415 V AC 50/60 Hz 2 poles in series AC-22A: 1500 cycles 440 V AC 50/60 Hz AC-22A: 1500 cycles 500 V AC 50/60 Hz AC-23A: 1500 cycles 220/240 V AC 50/60 Hz AC-23A: 1500 cycles 380/415 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 DC-22A: 1500 cycles 250 V DC 50/60 Hz 2 poles in series DC-23A: 1500 cycles 250 V DC 50/60 Hz 2 poles in series AC-22A: 1500 cycles 690 V AC 50/60 Hz AC-23A: 1500 cycles 690 V AC 50/60 Hz 2 poles in series
Connection pitch	30 mm
Height	100 mm
Width	135 mm
Depth	62.5 mm
Net weight	0.8 kg

## Environment

Standards	IEC 60947-3 IEC 60947-1
Product certifications	CCC KEMA-KEUR
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	13.5 cm
Package 1 Width	11.5 cm
Package 1 Length	15.5 cm
Package 1 Weight	1.032 kg
Unit Type of Package 2	S04
Number of Units in Package 2	20

Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	21.412 kg
Unit Type of Package 3	P12
Number of Units in Package 3	80
Package 3 Height	45.0 cm
Package 3 Width	80.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	98.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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)