

### Main

Device short name	Simpact NKS100R
Circuit breaker name	Simpact NKS100R
Poles description	3P
Network type	AC
Mounting mode	Fixed
[In] rated current	50 A at 40 °C
[Ue] rated operational voltage	415 V AC 50/60 Hz conforming to IEC 60947-2 415 V AC 50/60 Hz conforming to IS 13947 part 2
Circuit breaker rating code	R
Breaking capacity	I <sub>cu</sub> = 10 kA at 415 V AC , 50 Hz conforming to IEC 60947-2 I <sub>cu</sub> = 10 kA at 415 V AC , 50 Hz conforming to IS 13947 part 2
Utilisation category	Category A
Trip unit name	MA
Trip unit technology	Magnetic
Long time pick-up adjustment type I <sub>r</sub>	Fixed
Pole distance	30 mm

### Complementary

Network frequency	50 Hz
Control type	Toggle
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
[Ui] rated insulation voltage	690 V AC 50 Hz conforming to IEC 60947-2 690 V AC 50 Hz conforming to IS 13947 part 2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2 8 kV conforming to IS 13947 part 2
[Ics] rated service breaking capacity	5 kA (I <sub>cs</sub> = 50 %) at 415 V AC 50 Hz conforming to IEC 60947-2 5 kA (I <sub>cs</sub> = 50 %) at 415 V AC 50 Hz conforming to IS 13947 part 2
Mechanical durability	10000 cycles
Electrical durability	1500 cycles (at 415 V AC , 50 Hz) category A , conforming to IEC 60947-2 1500 cycles (at 415 V , conforming to IS 13947 part 2
Connection pitch	30 mm without spreader 36.5 mm with spreader
Protection type	Fully magnetic
Height	153 mm
Width	90 mm
Depth	83 mm
Mechanical robustness	Shocks conforming to IEC 68-2-27 Vibrations conforming to IEC 68-2-6

## Environment

Standards	IEC 60947-1 IEC 60947-2 IS 13947 part 1 IS 13947 part 2
IP degree of protection	IP20, with toggle (bare circuit-breaker with terminal shields) conforming to IEC 60529 IP20, with toggle (circuit-breaker installed in a switchboard) conforming to IEC 60529 IP40, with direct rotary handle (bare circuit-breaker with terminal shields) conforming to IEC 60529 IP42, with direct rotary handle (circuit-breaker installed in a switchboard) conforming to IEC 60529
IK degree of protection	IK07, with toggle (bare circuit-breaker with terminal shields) conforming to IEC 62262 IK07, with direct rotary handle (bare circuit-breaker with terminal shields) conforming to IEC 62262 IK07, with toggle (circuit-breaker installed in a switchboard) conforming to IEC 62262 IK07, with direct rotary handle (circuit-breaker installed in a switchboard) conforming to IEC 62262
Pollution degree	3 , conforming to IEC 60947
Ambient air temperature for operation	-5...50 °C
Ambient air temperature for storage	-50...85 °C
Climatic withstand	85 °C (exposure to dry heat) conforming to IEC 68-2-2 95 % relative humidity at 55 °C (continuous exposure to damp heat) conforming to IEC 68-2-30 - 55 °C (exposure to cold) conforming to IEC 68-2-1 Class 2 (salt mist) conforming to IEC 68-1-52
RoHS EUR status	Will not be compliant