

# 31690

circuit breaker Compact NS250H - TMD - 250 A -  
4 poles 4d



ⓘ Discontinued

31690 has not been replaced. Please contact your customer care center for more information.

## Main

Range of product	Compact NS100...630
Product or component type	Circuit breaker
Device short name	Compact NS250H
Circuit breaker name	Compact NS250H
Device application	Distribution
Poles description	4P
Protected poles description	4t
Neutral position	Left
Network type	AC DC
Network frequency	50/60 Hz
[In] rated current	220 A 65 °C 250 A 40 °C
[Ui] rated insulation voltage	750 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2 750 V DC conforming to IEC 60947-2
Breaking capacity code	H
Breaking capacity	50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC 18 kA at 600 V AC 50/60 Hz conforming to UL 508 35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 HIC 65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC 65 kA at 480 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508
[Ics] rated service breaking capacity	Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 100 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 65 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 70 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2
Utilisation category	Category A
Trip unit name	TM-D

Trip unit technology	Thermal-magnetic
Trip unit rating	250 A
Protection type	Overload protection (thermal) Short-circuit protection (magnetic) Protection of the fourth pole
Pollution degree	3 conforming to IEC 60947

### Complementary

Control type	Toggle
Mounting mode	Fixed
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Mechanical durability	20000 cycles
Electrical durability	10000 cycles 440 V AC 50/60 Hz $I_n$ conforming to IEC 60947-2 20000 cycles 440 V AC 50/60 Hz $I_n/2$ conforming to IEC 60947-2
Connection pitch	35 mm
Local signalling	Positive contact indication
Neutral protection setting	1 x $I_r$
Long time pick-up adjustment type $I_r$	Adjustable
Long time pick-up adjustment range	0.8...1 x $I_n$
Instantaneous pick-up adjustment type $I_i$	Adjustable
Instantaneous pick-up adjustment range	5...10 x $I_n$
Height	161 mm
Width	140 mm
Depth	86 mm

### Environment

Standards	IEC 60947-2
Product certifications	ASTA LCIE ASEFA KEMA
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

### Contractual warranty

Warranty period	18 months
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