



Moulded Case Circuit Breaker h3+ P250 TM ADJ 4P4D N0-100% 100A 50kA FTC

Technical properties

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Architecture	
Type of order	Toggle
Neutral position	left
Number of protected poles	4
Number of poles	4 P
Type of pole	4P4D N:0/100%
Type of case	Fixed built-in
Functions	
Complete device with protection unit	Yes
Reversing switch	No
Version as main switch	Yes
Version as emergency stop installation	No
Version as safety switch	No
Version as maintenance-/service switch	Yes
Trip Unit	TM A/A
Integrated earth fault protection	No
Concurrently switching N-neutral	Yes
Controls and indicators	
Motor drive integrated	No
Main electrical features	
Rated operational voltage Ue	220 / 690 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV
With under voltage release	No
Electric current	
Rated current	100 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
D. I	
Rating current 10°C according to IEC 60947	129.6 A
Rating current 10°C according to IEC 60947 Rating current 15°C according to IEC 60947	129.6 A 126.3 A

Rating current 30°C according to IEC 60947 115.8 A Rating current 40°C according to IEC 60947 108.2 A Rating current 40°C according to IEC 60947 100.2 A Rating current 45°C according to IEC 60947 100.0 A Rating current 50°C according to IEC 60947 95.7 A Rating current 60°C according to IEC 60947 91.1 A Rating current 65°C according to IEC 60947 86.3 A Rating current 70°C according to IEC 60947 81.2 A Rated service breaking capacity ics under 6600 Ac according IEC 60947-2 6 kA Breaking capacity on 1 pole for IT 230V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 6 kA Breaking capacity on 1 pole for IT 400V NF 60947-2 65 kA Rated ultimate short-circuit breaking capacity ics under 6000 AC IEC 60947-2	Rating current 25°C according to IEC 60947	119.4 A
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capacity Icu under 240V AC IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 50 kA Range of the thermal adjustment 63 / 80 / 100 A Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 66 kA Dimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.63*In 11.52 W Total power loss under IN 18 W	5	65 kA
capacity Icu under 400V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 Range of the thermal adjustment Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit breaking capacity Icu under 650 kA Bated ultimate short-circuit b	9	65 kA
capacity Icu under 415V AC IEC 60947-2 Range of the thermal adjustment Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 Beth of installed product Power Installed product Prequency Frequency Frequency Fower Ioss per pole at 0.63*In Total power Ioss at 0.63*In Total power Ioss under IN Total power Ioss under IN Total power Ioss under IN Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 So k	5	50 kA
Rated service breaking capacity lcs under 110-138V AC according IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity lcu under 220V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity lcu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity lcu under 660V AC IEC 60947-2 6 kA Poimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Total power loss at 0.63*In 7.14 W Total power loss under IN 18 W Total power loss under IN 18 W		50 kA
110-138V AC according IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 55 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 66 kA Dimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 1440 mm Frequency Frequency Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Range of the thermal adjustment	63 / 80 / 100 A
capacity Icu under 220V AC IEC 60947-2 65 kA Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 66 kA Dimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency Fower 50 to 60 Hz Power 0ss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss under IN 18 W		65 kA
capacity Icu under 380V AC IEC 60947-2 50 kA Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 6 kA Dimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency Frequency 50 to 60 Hz Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	3	65 kA
Dimensions Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	5	50 kA
Depth of installed product 97 mm Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.63*In 11.52 W Total power loss at 0.8*In 11.52 W	9	6 kA
Height of installed product 165 mm Width of installed product 140 mm Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Dimensions	
Frequency Frequency Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In Power loss per pole at 0.8*In Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN	Depth of installed product	97 mm
Frequency 50 to 60 Hz Power Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Height of installed product	165 mm
Frequency50 to 60 HzPowerPower loss per pole at 0.63*In2.38 WPower loss per pole at 0.8*In3.84 WTotal power loss at 0.63*In7.14 WTotal power loss at 0.8*In11.52 WTotal power loss under IN18 W	Width of installed product	140 mm
PowerPower loss per pole at 0.63*In2.38 WPower loss per pole at 0.8*In3.84 WTotal power loss at 0.63*In7.14 WTotal power loss at 0.8*In11.52 WTotal power loss under IN18 W	Frequency	
Power loss per pole at 0.63*In 2.38 W Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Frequency	50 to 60 Hz
Power loss per pole at 0.8*In 3.84 W Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W		
Total power loss at 0.63*In 7.14 W Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Power loss per pole at 0.63*In	2.38 W
Total power loss at 0.8*In 11.52 W Total power loss under IN 18 W	Power loss per pole at 0.8*In	3.84 W
Total power loss under IN 18 W	Total power loss at 0.63*In	7.14 W
·	Total power loss at 0.8*In	11.52 W
Power loss per pole at In 6 W	Total power loss under IN	18 W
	Power loss per pole at In	6 W

Tripping	
Short-time delayed tripping	No
Endurance	
Electric endurance in number of cycles	10000
Number of mechanical operations	40000
Cover, door	
Interlockable	Yes
Installation, mounting	
Tightening torque	12Nm
DIN rail mounting with optional adaptator	No
Suitable for front mounting center	No
Suitable for front mounting	No
Suitable for ground mounting	Yes
Connection	
Connection cross-sect. flexible conductor	35 / 150mm ²
Connection cross-sect. rigid cable	35 / 185mm²
Connection	Front connection
Type of connection	Termina
Protection	
Instantaneous protection (Ii): type	without
Cable	
Cable Material	Cu / Al
Settings	
Range of the magnetic adjustment	600 / 800 / 1000 / 1300 A
Magnetic protection nob setting xIN	6 / 8 / 10 / 13
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change- over contact	C
Motor drive optional	Yes
Can be accessorized	Yes
Use cases	
Category of use	A
Use	
Vibrations and shocks withstand	IEC 68068-2-52 Test FC
Standards	
Standard text	IEC 60947-2

temperatur	
Air humidity protection	95%HR 55°C sev Kn (IEC 68-2-30/52)
Altitude	2000 m
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Use conditions	
Halogen free	No
RoHS conform	Yes
REACH conform	Yes
Safety	

Temperature of calibration

50 °C