



Main

Range	MasterPacT
Product name	MasterPact NW DC
Circuit breaker name	MasterPact NW40NDC-C
Product or component type	Circuit breaker
Device application	DC voltage switching
Poles description	3P
Control unit	Without control unit
[In] rated current	4000 A at 40 °C
Performance type	N 35 kA 500 V DC
[Ue] rated operational voltage	500/900 V DC
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Selectivity category	Category B
Control type	Push-button
Mounting mode	Fixed

Complementary

[Icu] rated ultimate short-circuit breaking capacity	25 kA Icu at 500 V DC L/R = 30 ms 35 kA Icu at 500 V DC L/R = 15 ms 85 kA Icu at 500 V DC L/R = 5 ms
[Ics] rated service breaking capacity	25 kA at 500 V DC (L/R = 30 ms) 35 kA at 500 V DC (L/R = 5 ms) 85 kA at 500 V DC (L/R = 5 ms)
[Icw] rated short-time withstand current	50 kA 1 s
[Icm] rated short-circuit making capacity	25 kA L/R = 30 ms 500 V DC 35 kA L/R = 15 ms 500 V DC 85 kA L/R = 5 ms 500 V DC
Sensor rating	4000 A
[Ui] rated insulation voltage	1000 V DC
[Uimp] rated impulse withstand voltage	12 kV
Power dissipation in W	4000 W
Maximum breaking time	30...75 ms
Maximum closing response time	70 ms
Mounting support	Backplate Rails
Upside connection	Rear
Downside connection	Rear
Connection pitch	150 mm
Mechanical durability	10000 Cycles without maintenance conforming to IEC 60947-2 20000 cycles with maintenance conforming to IEC 60947-2
Electrical durability	2000 cycles 500 V DC without maintenance conforming to IEC 60947-2
Height	352 mm
Width	422 mm
Depth	527 mm
Net weight	60...86 kg
Standards	IEC 60947-2
Product certifications	ASEFA[RETURN]ASTA

Environment

Pollution degree	4 conforming to IEC 60664-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.1 cm
Package 1 Width	0.1 cm
Package 1 Length	0.2 cm
Package 1 Weight	172.284 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Contractual warranty

Warranty	18 months
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