

Product data sheet

Characteristics

48653

circuit breaker Masterpact NW20HDC-E - 2000
A - 4 poles - fixed



Main

Range of product	Masterpact NW
Product or component type	Basic frame
Device short name	Masterpact NW20HDC-E
Circuit breaker name	Masterpact NW20HDC-E
Poles description	4P
Network type	DC
Breaking capacity code	H
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category B

Complementary

Control type	Push-button
Mounting mode	Fixed
[In] rated current	2000 A at 40 °C
[Ui] rated insulation voltage	1000 V DC conforming to IEC 60947-2
[Uiimp] rated impulse withstand voltage	12 kV conforming to IEC 60947-2
[Icm] rated short-circuit making capacity	100 KA L/R = 5 ms 500 V DC 25 KA L/R = 30 ms 900 V DC 35 KA L/R = 15 ms 900 V DC 50 KA L/R = 30 ms 500 V DC 50 KA L/R = 15 ms 750 V DC 50 KA L/R = 30 ms 750 V DC 85 KA L/R = 15 ms 500 V DC 85 KA L/R = 5 ms 750 V DC 85 kA L/R = 5 ms 900 V DC
[Ue] rated operational voltage	500/900 V DC conforming to IEC 60947-2
Circuit breaker CT rating	2000 A
Breaking capacity	100 KA Icu at 500 V DC L/R = 5 ms conforming to IEC 60947-2 25 KA Icu at 900 V DC L/R = 30 ms conforming to IEC 60947-2 35 KA Icu at 900 V DC L/R = 15 ms conforming to IEC 60947-2 50 KA Icu at 500 V DC L/R = 30 ms conforming to IEC 60947-2 50 KA Icu at 750 V DC L/R = 15 ms conforming to IEC 60947-2 50 KA Icu at 750 V DC L/R = 30 ms conforming to IEC 60947-2 85 KA Icu at 500 V DC L/R = 15 ms conforming to IEC 60947-2 85 KA Icu at 750 V DC L/R = 5 ms conforming to IEC 60947-2 85 kA Icu at 900 V DC L/R = 5 ms conforming to IEC 60947-2
[Ics] rated service breaking capacity	100 KA at 500 V DC conforming to IEC 60947-2 (L/R = 5 ms) 25 KA at 900 V DC conforming to IEC 60947-2 (L/R = 30 ms) 35 KA at 900 V DC conforming to IEC 60947-2 (L/R = 15 ms) 50 KA at 500 V DC conforming to IEC 60947-2 (L/R = 30 ms) 50 KA at 750 V DC conforming to IEC 60947-2 (L/R = 15 ms) 50 KA at 750 V DC conforming to IEC 60947-2 (L/R = 30 ms) 85 KA at 500 V DC conforming to IEC 60947-2 (L/R = 15 ms) 85 KA at 750 V DC conforming to IEC 60947-2 (L/R = 5 ms) 85 kA at 900 V DC conforming to IEC 60947-2 (L/R = 5 ms)
Protection type	Without protection
Mechanical durability	10000 Cycles without maintenance conforming to IEC 60947-2 20000 cycles with maintenance conforming to IEC 60947-2
Electrical durability	5000 Cycles 500 V DC without maintenance conforming to IEC 60947-2 2000 cycles 900 V DC without maintenance conforming to IEC 60947-2
Connection pitch	115 mm
[Icw] rated short-time withstand current	85 kA 1 s conforming to IEC 60947-2
Maximum breaking time	30...75 ms
Maximum closing response time	70 ms

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Height	352 mm
Width	537 mm
Depth	427 mm

Environment

Standards	IEC 60947-2
Product certifications	ASEFA ASTA
Pollution degree	4 conforming to IEC 60664-1
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C

Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
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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