

Product datasheet

Specifications



circuit breaker Masterpact
NW20HDC-D. 2000 A. 900 VDC.
Icu 85 kA at 500 VDC. 3 poles.
fixed

48652

Price: 208,152.63 ZAR

Main

Range	MasterPacT
Product Name	MasterPact NW DC
Circuit Breaker Name	MasterPact NW20HDC-D
Product Or Component Type	Circuit breaker
Device Application	DC voltage switching
Poles Description	3P
Control Unit	Without control unit
[In] Rated Current	2000 A at 40 °C
Performance Type	H 85 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	100 kA Icu at 500 V DC L/R = 5 ms 25 kA Icu at 900 V DC L/R = 30 ms 35 kA Icu at 900 V DC L/R = 15 ms 50 kA Icu at 500 V DC L/R = 30 ms 50 kA Icu at 750 V DC L/R = 15 ms 50 kA Icu at 750 V DC L/R = 30 ms 85 kA Icu at 500 V DC L/R = 15 ms 85 kA Icu at 750 V DC L/R = 5 ms 85 kA Icu at 900 V DC L/R = 5 ms
[Ics] Rated Service Breaking Capacity	100 kA at 500 V DC (L/R = 5 ms) 25 kA at 900 V DC (L/R = 30 ms) 35 kA at 900 V DC (L/R = 15 ms) 50 kA at 500 V DC (L/R = 30 ms) 50 kA at 750 V DC (L/R = 15 ms) 50 kA at 750 V DC (L/R = 30 ms) 85 kA at 500 V DC (L/R = 15 ms) 85 kA at 750 V DC (L/R = 5 ms) 85 kA at 900 V DC (L/R = 5 ms)
[Icw] Rated Short-Time Withstand Current	85 kA 1 s

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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
Sensor Rating	2000 A
[Ui] Rated Insulation Voltage	1000 V DC
[Uimp] Rated Impulse Withstand Voltage	12 kV
Power Dissipation In W	2000 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	115 mm
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
Height	352 mm
Width	422 mm
Depth	427 mm
Net Weight	60...86 kg
Standards	IEC 60947-2
Product Certifications	ASTA ASEFA

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	93.734 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free	
 RoHS Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information