Nidec Conversion

PCS

Flexible, Silent, 2000 V Ready

Unlock the Future of Power Conversion

Experience the Next Generation of High Power Density and Efficiency

- Up to 2000 V_{DC}
- 320 to 730 V_{AC}
- 2217 to 5057 kVA
- Water-Cooled

DC SIDE	Maximum DC voltage [1]	1500 V
	Minimum DC voltage [2]	463 V / 981 V / 1037 V
	Maximum current	2 x 2450 A or 4900 A
	DC Ports	1 or 2
	Number of DC inputs	Up to 30 + 30 fuses
	Type of connection	Busbar
AC SIDE	Power @ 1500 V_{DC}, 40 °C	2217 kVA / 4780 kVA / 5057 kVA
	AC current @ 1500 V_{DC}, 40 °C	4000 A
	Rated AC voltage	320 V / 690 V / 730 V
	AC voltage range	± 15 %
	AC frequency	50 Hz / 60 Hz ± 6 %
	Power factor	0 under-excited, 1, 0 over-excited
	THDi @ Pnom	< 1 %
	Type of connection	Busbar

PROTECTIONS	DC surge protection device	Type I+II
	AC surge protection device	Class I
	AUX surge protection device	Class II
	Insulation monitoring	Ground fault monitoring with digital signals (Warning and Alarm)
GENERAL	Dimension [3]	2000 x 2000 H= 2730 mm
	Total mass [4]	4500 kg
	Installation	Outdoor
	Cooling type (optional)	Air-Cooled and Water Cooled (Only Water-Cooled)
	Protection degree (optional)	IP55 (IP65)
	Temperature range (optional) [5]	(-40 °C) -20 °C to 40 °C
	Maximum operating altitude	Up to 1000 m without derating Up to 4000 m with derating in current and voltage
	Sound pressure level @ 10 m	< 60 dB(A)
	Corrosion protection (optional)	C4H (C5H)
	Color	RAL 9016 / 6037
FEATURES	Stand-by consumption	< 250 W
	Maximum efficiency	98,7 %
	Grid forming	Available
	Black start	Available
	Communication (optional)	ModBus TCP/IP (Profinet) Predisposition for remote monitoring
	Declaration of conformity	CE, UKCA, UL
	Standard complied with	IEC 62477-1, IEC 62109-1/2, IEC 62909-1/2, UL 1741, IEC 62920, IEC 60068-2-1, IEC 60068-2, IEC 60068-30, IEC 60068-78

(1) Ready for 2000 V Standard

(2) PF=1, UGRID=UNOM, interpolation permitted. Contact Nidec Conversion for details about operation

(3) The dimension may change based on different configurations

(4) The mass depends on the final configuration

(5) Power derating of 10% @ 50 °C

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