Nidec Conversion

UNLOCK THE FUTURE OF POWER CONVERSION

Flexible, Silent, 2000 V Ready

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

PRELIMINARY - ALL INFORMATION MAY BE SUBJECT TO CHANGE

TECHNICAL DATA

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DC SIDE	Maximum DC voltage [1]		1500 V	
	Minimum DC voltage [2]	453 V	976 V	1033 V
	Maximum current		4900 A	
	DC bushings		Two independent DC buses	
	Fuses		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 @ P_{nom}		< 1 %	
	Type of connection		Busbar	
PROTECTIONS	DC surge protection device		Type I+II	
	AC surge protection device		Type I+II	
	AUX surge protection device		Type II+III	
	Insulation monitoring		Ground fault monitoring with digital signals (Warning and Alarm)	
GENERAL	Dimension [3]		2000 x 2000 H= 2650 mm	
	Total mass [4]		4000 kg	
	Installation		Outdoor	
	Cooling type (optional)		Water-Cooled	
	Protection degree (optional)		IP54 (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)		C4 (CX)	
	Color		RAL 9016 / 6037	
FEATURES	Stand-by consumption		< 250 W	
	Maximum efficiency		98,7 %	
	Grid forming		Available	
	Black start		Available	
	Communication		ModBus TCP/IP (Ethernet RJ45 Socket) for full remote and control monitoring	
	Declaration of conformity		CE, UKCA	
	Standard complied with		IEC 62477-1, IEC 62920, IEC 60068, IEC 61727, IEC 61683, IEC 62443	

(1) Ready for 2000 V Standard
(2) PF=1, U_{GRID}=U_{NOM}, 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