



RFC (MG SETS) TECHNICAL PARAMETER

Model		ADBF60T10-450	
Rated Power		450kVA / 360kW	
Duty Cycle		S1 (continuous duty)	
Insulation		Class H	
Index Protection		Switchboard Weather-proof enclosure IP44 / IP55 (Opt.)	
		Converter Enclosure IP20 / IP23 (Opt.)	
Mounting Structure		The motor and the alternator are coupled in the axial direction through elastic coupler.	
Temperature Rise		No more than 90°C Rise in 40°C ambience measured by resistance.	
Connection Boxes		Generator & motor connection boxes with removable cover. Contains winding lead connections and exciter connections.	
Ventilation		Shaft-mounted fan(s). Air intake through exciter and housing openings, air exhaust through fan screened safety cover.	
Rotor Balance		The completed rotor is dynamically balanced to G2.5 Grade (ISO 1940-1)	
Noise Level		80 Db (A)	
Ambient Temperature		0°C to +40°C Maximum without de-rating	
Efficiency		90%	
Paint Color		Standard dark gray or to be specified	
Overall Dimension	Converter	Approx. L. 2729 x W. 1422 x H. 1456 mm	
	Switchboard	Approx. L. 1600 x W. 600 x H. 2000 mm	
Weight	Converter	± 6450 Kgs	
	Switchboard	± 350 Kgs	
Compliance		IEC60034-1, NEMA MG1 & China National Standards	
MOTOR INPUT PARAMETER			
Motor Type		Brushless synchronous motor	
Rated Power		398 kVA	
Rated Frequency		50Hz ± 5%	
Rated Speed		Precise 600rpm	
Pole Number		10 poles	
Rated Voltage		400VAC (line to line)	
Rated Current		575 A	
Winding Connection		Wye	
Power Factor		0.95 ~ 1 Cos φ	
Efficiency		≥ 90%	
Voltage Tolerance Adjustment Range		-10% ~ +10%	
Starting Mode		Reduced-voltage start	
Frequency Regulation		Within ± 0.5% from no load to full load	
GENERATOR OUTPUT PARAMETER			
Rated Power		450kVA / 360kW	
Power Factor		0.8 (lag)	
Rated Frequency		60Hz	
Rated Speed		600rpm	
Pole Number		12 poles	
Rated Voltage		440V / 254VAC (line to line)	
Winding Connection		Wye with neutral	
Rated Current		590 A	
Excitation Mode		Automatic self excitation with AVR control	
Overload Capacity		20% (10 Minutes), 50% (2 Minutes)	
Voltage Tolerance Adjustment Range		-5% ~ +12%	
Steady Voltage Regulation		Within ± 1% (0 to 100% steady state, balanced, linear load)	
Transient Voltage Regulation		Within ± 12% (0 to 100% rated load applied or removed in one single step)	
Voltage Recovery Time		≤ 0.1s	
Voltage Waveform THD		≤ 2.5%	
Distortion Factor DF		< 3%	
Crest Factor CF		Limitless (sinus)	
Efficiency		≥ 90%	

Note :

Due to keeping innovation, the specification and products pictures or color are subject to alteration without notice!

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