

REGULATORY REQUIREMENTS RELATED TO NATIONAL DIFFERENCES

No.	Items	Requirements						
1	Nominal Voltages and Frequency	a) Nominal Voltage Nominal voltage for low voltage supply in N 230/400V (+10%, -6%) in accordance with MS with details as per the following table: -					-	
			Nominal Voltage (V)	Percentage of Variations (%)		Voltage Variations (V)		
		[] () () () () () () () () () (, ,	+	-	Min.	Max.	
		Until 31/1 Single Phase	240	5	10	226	252	
		Three Phase	415	5	10	373.5	436	
	Commencing of		cing on 1/2	ng on 1/1/2008				
		Single Phase	230	10	6	216	253	
		Three Phase	400	10	6	376	440	
2	Voltages and Frequency Marking	Nomina Malays In line with	sia is allowe n (a) above	cy for lo	uate at ± 1 trical equi	% from 50 ipment to I	voltage in Hz. De used in o's nominal	
	for Regulated Equipment	 voltage and frequency as follows: - a) Voltage Single-phase equipment shall be rated / marked at 230V or 240V. If the equipment is rated with multiple or a range of voltages, voltage range of 230V (+10%,-6%) shall be included. Three-phase equipment shall be rated/marked at 400V or 						
		415V. I	f the equipes, voltage	ment is ra	ited with n	nultiple or	a range of) shall be	
		be con 50/60H	ct shall be ducted at 5	50Hz (±1% Hz then te). If the presting shall	oduct is m I be condu	sting shall arked with cted either le.	



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No.	Items	Requirements					
3	Testing Voltage and	Type Test Report for Equipment					
	Frequency on	The test shall be conducted by the Conformity Assessmen					
	Electrical Equipment	Body (CAB) at voltage variations as in the table below:					
		Single Phase 240V ± 6% (225.6 – 254.4) V					
		Three Phase 415V ± 6% (390.1 – 439.9) V					
		Single Phase 230V ± 10% (207 – 253) V					
		Three Phase 400V ± 10% (360 – 440) V					
		a) Voltage Single-phase equipment Testing shall be conducted based on 230V(+10%,-10%) or 240V(+6%,-6%) and other relevant voltages, whenever the equip- ment is marked with multiple or a range of voltages. Three-phase equipment Testing shall be conducted based on 400V(+10%,-10%) or 415V(+6%,-6%), and other relevant voltages, whenever the equipment is marked with multiple or a range of voltages.					
4	Power supply cord	 b) Frequency Testing shall be conducted either at 50Hz or 60Hz, whichever is more unfavourable. Appliances shall be fitted with a suitable and appropriately 					
	and main plug requirements	approved power supply cord and mains plug. Both are regulated equipment and must be approved by the regulatory body before it can be used with the appliances.					
		 a) The Power Supply Cord shall be certified to:- MS2112-5 or BS EN 50525-2-11 or IEC 60227-5 (PVC insulated - flexible cables/cords);or or MS 2127-4 or IEC 60245-1 & IEC 60245-4 (Rubber insulated - flexible cables/cords) 					
		 b) The mains Plug to be used in Malaysia shall be as follows: 13A fused plug complying with MS 589-1 or BS 1363:PT.1; 15A plugs complying with MS 1577; 2.5A, 250V, flat non-rewireable two-pole plug with cord for the connection of class II equipment comply with MS 1578 or BS EN 50075. 					



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No.	Items	Requirements
5	Class I and Class II	Only the following symbols for Class I and Class II are allowed
	Equipment	to be used in Malaysia.
		Class I Class II
		Class 0 and Class 01 appliances as defined in MS IEC 60335
		series or IEC 60335 series are NOT ALLOWED to be used in Malaysia.
6	Suspension System	Electric ceiling fans must be provided with a special wire as a
	for Electric Ceiling Fans	secondary suspension system. The test method used to check that the secondary suspension system of the electric ceiling
		fan has adequate mechanical strength is in accordance with
		MS 1597: Part 2-80 or IEC 60335-2-80 with modification for
		ceiling fan only.
7	Requirement for	To meet the requirements of the LED Photobiological Safety
	LED Luminaires	Class of Exempt Group according to standard MS IEC 62471 or IEC 62471.
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