

CI Insulating Material Enclosures

Technical Data

		CI23...	CI43...	CI44...	CI48...
General					
Standards		UL, CSA, IEC/EN 60 529, EN 50 262, DIN 43 656, DIN 43 660			
Climatic proofing		Damp heat, constant, to IEC 60 068-2-3 Damp heat, cyclical, to IEC 60 068-2-30			
Ambient temperature	min./max. °C	-40/+80	-40/+80	-40/+80	-40/+80
Degree of protection		IP 65	IP 65	IP 65	IP 65
Dissipatable heat loss		→ page 11/017			
Material					
Material		Thermoplastic			
Base		Glass-fibre reinforced polycarbonate			
Cover		Polycarbonate, not reinforced			
Surface treatment		Resistant to corrosion			
Color					
Base		Pebble gray, RAL 7032			
Cover		Transparent, colorless or pebble gray, RAL 7032			
Material characteristics					
Electrical					
Creepage resistance to IEC 60 112					
Base		KB 160, KC 175			
Cover		KB 100, KC 200			
Surface resistance to IEC 60 093	Ω	>10 ¹³	>10 ¹³	>10 ¹³	>10 ¹³
Dielectric strength to IEC 60 243-1	kV/mm	30	30	30	30
Thermal					
Continuous thermal stability					
Enclosure	°C	-40/+120	-40/+120	-40/+120	-40/+120
Enclosure bolt	°C	+85	+85	+85	+85
Gasket	°C	+80	+80	+80	+80
Chemical					
1 △ resistant					
2 △ partially resistant					
3 △ non resistant					
		Base, cover			
Acids > 10 %		2			
Acids < 10 %		1			
Alkalis > 10 %		3			
Alkalis < 10 %		3			
Mineral oil		1			
Alcohol		1			
Petrol		1			
Grease		1			
Saline solutions		1			
Paraffin		3			
Atmospheric					
Saline spray test		IEC 60 068-2-11			
UV resistance		beneath protective shield			
Water absorption to EN ISO 62	%	0.29			
Flammability characteristics					
Glow wire test to IEC/EN 60 695-2	°C	960			
UL					
Base		UL 94 V 1			
Cover		UL 94 V 2			
Halogen-free		yes, (base and cover)			