

# INDUSTRY STANDARDS

<b>Enclosure Comparisons - Indoor Use</b>										
Provides a degree of protection against	Enclosure Type									
	1	2	4	4X	5	6	6P	12	12K	13
Contact with enclosed equipment	★	★	★	★	★	★	★	★	★	★
Falling dirt	★	★	★	★	★	★	★	★	★	★
Falling & light splashing liquids		★	★	★	★	★	★	★	★	★
Dust, lint, fibers & flyings			★	★	★	★	★	★	★	★
Hosedown & splashing water			★	★		★	★			
Seepage of oil & coolant								★	★	★
Spraying & splashing of oil & coolant										★
Corrosive agents				★			★			
Occasional temporary submersion						★	★			
Occasional prolonged submersion							★			

<b>Enclosure Comparisons - Outdoor Use</b>											
Provides a degree of protection against	Enclosure Type										
					3	3R	3S	4	4X	6	6P
Contact with enclosed equipment					★	★	★	★	★	★	★
Rain & snow					★	★	★	★	★	★	★
Steel-external mechanisms operable							★				
Windblown dust					★		★	★	★	★	★
Direct hosedown								★	★	★	★
Corrosive agents									★		★
Occasional temporary submersion										★	★
Occasional prolonged submersion											★

<b>NEMA / EEMAC vs IEC Cross Reference</b>							
Enclosure Type	IP20	IP22	IP24	IP64	IP54	IP66	IP67
1	★						
2		★					
3				★			
3R			★				
3S				★			
4						★	
4X						★	
6							★
12					★		
13					★		

*(PLEASE NOTE: This cross reference is an approximation. Consult proper testing agencies for more accurate information.)*