

Table 6 Enclosures for Non-Hazardous Locations

Provides Protection Against	NEMA Type 1	NEMA Type 3 <sup>[1]</sup>	NEMA Type 3R <sup>[1]</sup>	NEMA Type 4 <sup>[2]</sup>	NEMA Type 4X <sup>[2]</sup>	Type 5	NEMA Type 12 <sup>[3]</sup>	Type 12K	NEMA Type 13
Accidental contact w/ enclosed equipment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Falling dirt	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Falling liquids and light splashing	...	Yes	Yes	Yes	Yes	...	Yes	Yes	Yes
Dust, lint, fibers and flyings	...	...	...	Yes	Yes	Yes	Yes	Yes	Yes
Hosedown and splashing water	...	...	...	Yes	Yes	...	...	...	...
Oil and coolant seepage	...	...	...	...	...	...	Yes	Yes	Yes
Oil and coolant spraying and splashing	...	...	...	...	...	...	...	...	Yes
Corrosive agents	...	...	...	...	Yes	...	...	...	...
Rain, snow and sleet <sup>[4]</sup>	...	Yes	Yes	<sup>[5]</sup>	Yes	...	...	...	...
Windblown dust	...	Yes	...	<sup>[5]</sup>	Yes	Yes	...	...	...

<sup>[1]</sup> Intended for outdoor use.

<sup>[2]</sup> Intended for indoor and outdoor use.

<sup>[3]</sup> Square D Industrial Control design NEMA Type 12 enclosures may be field modified for outdoor applications.

<sup>[4]</sup> External operating mechanisms are not required to be operable when the enclosure is ice covered.

<sup>[5]</sup> Square D Industrial Control design NEMA Type 4 enclosures provide protection against these environments.

Table 7 Enclosures for Hazardous Locations

Provides Protection Against	Class <sup>[1]</sup>	Group <sup>[1]</sup>	Enclosure					
			NEMA Type 7			NEMA Type 9		
			7B	7C	7D	9E	9F	9G
Hydrogen, manufactured gas	I	B	Yes	...	...	...	...	...
Ethyl ether, ethylene, cyclopropane	I	C	Yes	Yes	...	...	...	...
Gasoline, hexane, naphtha, benzine, butane, propane, alcohol, acetone, benzol, natural gas, lacquer solvent	I	D	Yes	Yes	Yes	...	...	...
Metal dust	II	E	...	...	...	Yes	...	...
Carbon black, coal dust, coke dust	II	F	...	...	...	...	Yes	...
Flour, starch, grain dust	II	G	...	...	...	...	Yes	Yes

<sup>[1]</sup> As described in Article 500 of the National Electrical Code.