



Certification Record

CUSTOMER	CLASS	FILE
Cristal Controles Limitee 1375 rue Frank Carrel, No 14, Québec QC G1N 2E7 Canada	<u>3211-89</u> INDUSTRIAL CONTROL EQUIPMENT - Special (Custom) Industrial Con-Assemblies - Certified to US Standards	097756_0_000
Refer to Class Description for program details		

- Special industrial control assemblies, enclosed, input: 600V ac/dc max, 400A, 1-3ph, 60Hz max; output: 600V ac/dc max, 1-3ph, 60Hz, 400hp/400kW, consisting of CSA Certified components such as enclosures Type 1, 3, 4 or 12, fuse and circuit breakers, contactors, transformers, control relays, motor starters, ac/dc drives, programmable logic controllers, timers and other auxiliary devices.
 - Full voltage and reduced motor starter: 400hp
 - Industrial heating control: 400kW.

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Class Description

CLASS NUMBER: 3211-89 **DESCRIPTION:** INDUSTRIAL CONTROL EQUIPMENT -
Special (Custom) Industrial Con-Assemblies -
Certified to US Standards

COVERAGE:

Open- or enclosed-type assemblies of devices for industrial applications, rated in amperes, volt-amperes or horsepower (in the case of special control assemblies for motor application).

This category does not include assemblies of controls for flame safety supervision, control or sequencing of combustible fuel type equipment, control assemblies for elevating equipment, switchgear, automatic transfer switches, enclosed disconnect switches, line isolation monitors, distribution panelboards, hazardous locations equipment, GFI equipment, hydro-massage equipment, marine equipment or motor control centers.

REQUIREMENTS:

UL 50	Enclosures for Electrical Equipment
UL 508	Industrial Control Equipment
UL 508A	Outline of Investigation for Industrial Control Panels

NOTE: Open-type equipment is certified only for use in complete assemblies where the suitability of the combination is to be determined.

MARKINGS

- submittor's identification;
- model designation, serial number, project number or equivalent;
- complete electrical ratings including short circuit rating;
- "ENC. Type 2 (or 3 or 4 etc)/ COFFRET Type 2 (or 3 or 4 or 5) or "Type 2 etc" where applicable;
- additional markings as may be required;
- CSA Monogram with "NRTL" or "US" indicator.

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