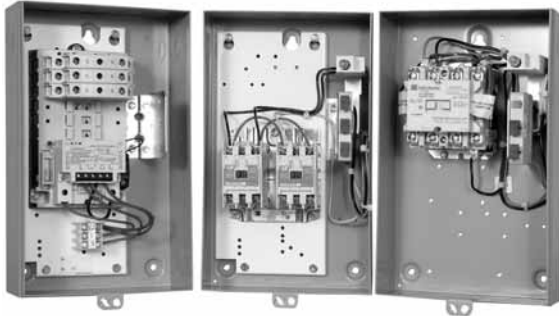


UL Rated AC Contactors



Product Description

Eaton's lighting contactors are designed to provide a safe, convenient means for local or remote switching of tungsten (incandescent filament) or ballast (fluorescent and mercury arc) lamp loads. They are also suitable for other loads such as low pressure and high pressure sodium lamp loads and other non-motor (resistive) loads. They are not recommended for most sign flashing loads.

These lighting contactors are designed to withstand the large initial inrush currents of tungsten lamp loads without contact welding. They are fully rated and do not require derating.

Application Description

Loads:

Ballast Lamps—Fluorescent, mercury vapor, metal halide sodium vapor, quartz—600 V maximum.

Filament Lamps—Incandescent, infrared, heating—480 V maximum, line to line; 277 V maximum line to neutral.

Resistance Heating—Radiant and convection heating, furnaces and ovens.

Additional Reference

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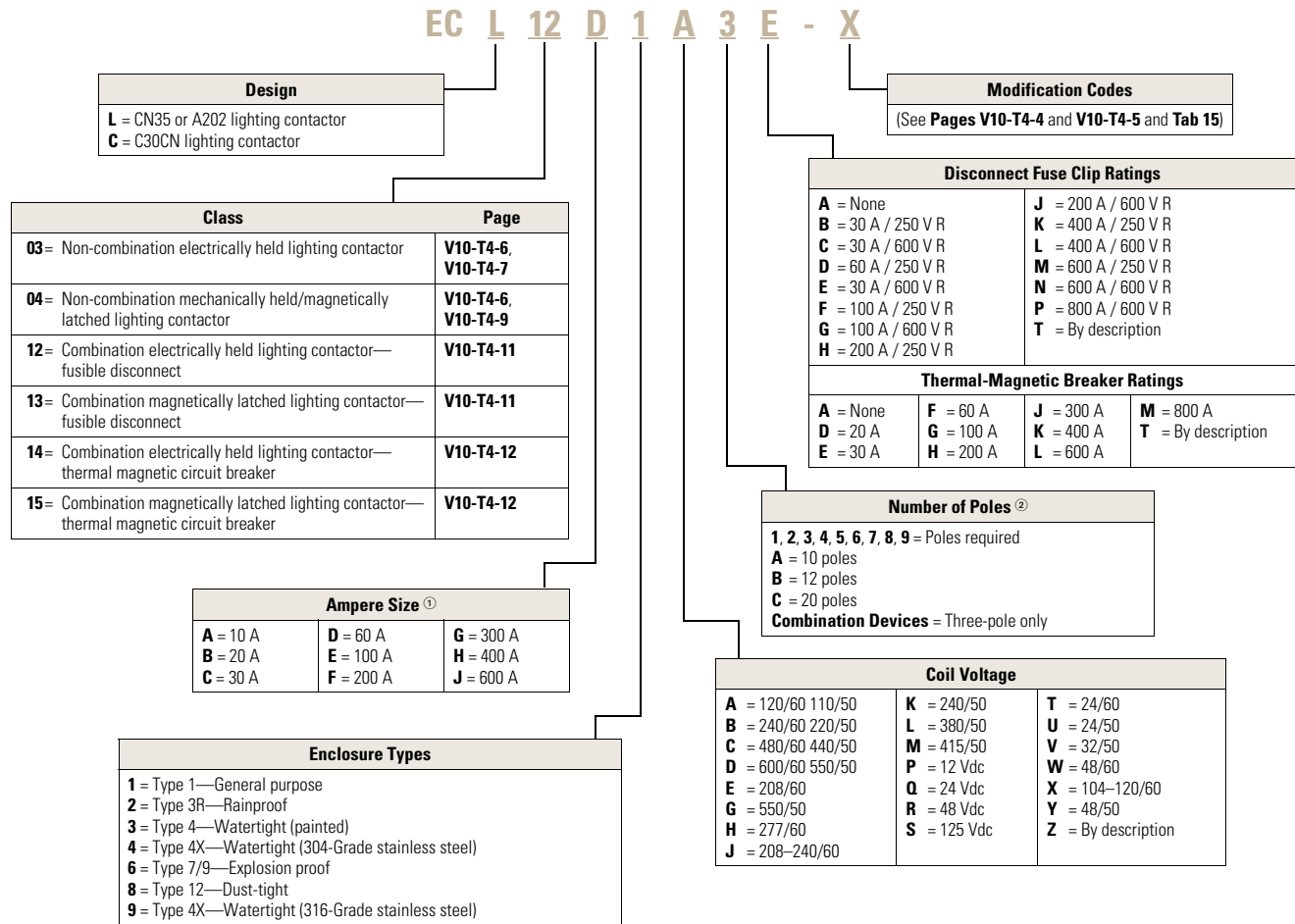
Standards and Certifications

Note: See **Tab 17** for additional information on Standards and Certifications that apply to all Enclosed Control products.

- UL Listed
- cUL Listed
- ABS Type Approved
- OSHPD Certified (OSP-0015-10)

Catalog Number Selection

Enclosed Lighting Contactors



Enclosures

Lighting contactors are available open or mounted in Type 1, 3R, 4, 4X, 12 or 7/9 enclosures.

Type 1 is for indoor, general purpose for personal protection. Knock-outs are provided in the top and bottom for conduit entry.

Type 3R is for outdoor applications and rated for rain, sleet and external ice buildup. Type 3R enclosures have knockouts in the bottom and provisions for a hub in the top.

Type 4 and 4X are for mounting indoor or outdoor and provide protection from splashing water, hose-directed water and wind-blown dust. Watertight conduit hubs are provided in the top and bottom of Type 4X enclosures. The standard Type 4X enclosures are made of 304-Grade stainless steel, providing corrosion protection. 316-Grade stainless steel construction is available as an upgrade option.

Type 12 enclosures are for indoor mounting and protect from dripping liquids, falling dirt and dust. No knockouts or hubs are provided with Type 12 enclosures.

Type 1, 3R, 4 and 12 enclosures are painted with a polyester urethane powder coat paint meeting UL requirements and the color is ANSI 61 gray. Type 1 enclosures have knockouts for cover controls. All the other types have holes plugged, ready for cover controls. Type 7/9 is also available for explosion proof applications. Please contact the factory for additional details.

Notes

- ① C30CN available in 30 A only.
- ② For normally closed poles see **Tab 15**.

Cover Control

Type 1 Non-Combination Cover Control (Box 1 Only) ^①

Description	Factory Installed Cover Control	Field Installation Kits
	Modification Code Suffix	Catalog Number
ON/OFF pushbutton	P8	C600M2
With red RUN pilot light	P8P23	C600M201_ ^②
With red RUN/green OFF lights	P8P23P25	C600M202_ ^②
HAND/OFF/AUTO selector switch	S3	C600M12
With red RUN pilot light	S3P23	C600M121_ ^②
With red RUN/green OFF lights	S3P23P25	C600M122_ ^②
ON/OFF selector switch	S12	C600M14
With red RUN pilot light	S12P23	C600M141_ ^②
With red RUN/green OFF lights	S12P23P25	C600M142_ ^②
Red RUN pilot light	P23	C600M9_ ^②
Green OFF pilot light	P25	C600M10_ ^②
Red RUN/green OFF lights	P23P25	C600M11_ ^②

Notes

- ① Box 1 offering with cover control includes CN35 lighting contactors 10 A 2–4P, 20 A 2–4P, 30 A 2–3P and 60 A 2–4P.
 ② Add code letter from the table below to catalog number for voltage. Example: C600M101**A**.

Rating	Code Letter
85–264 Vac	A
480 Vac	C
12–30 Vac/Vdc	T

Type 1, 3R, 4X and 12 Cover Control Non-Combination (Non-Box 1) and Combination Cover Control

Description	For Use with Lighting Contactor	Factory Installed Cover Control		Field Installation Kits	
		Type 1, 3R, 4X and 12 Modification Code Suffix	Type 7/9 Modification Code Suffix	Type 1 ^{①②} Catalog Number	Type 3R, 4X and 12 Non-Combination and Type 1, 3R, 4X and 12 Combination ^② Catalog Number
ON/OFF pushbuttons	Electrical three-wire C30CN; CN35; A202	P8	P8	C400GK18	C400T2
With red RUN pilot light		P8P23	P8P23	C400GK19_	—
With red RUN/GREEN off lights		P8P23P25	P8P23P25	C400GK1A_	—
ON/OFF Pushbuttons	Mechanical three-wire C30CN	P8	P8	C400GK4	C400T201
With red RUN pilot light		P8P23	P8P23	C400GK48_	—
With red RUN/GREEN off lights		P8P23P25	P8P23P25	C400GK49_	—
ON/OFF pushbuttons	Electrical and mechanical two-wire C30CN; CN35; A202	P8	P8	C400GK5	C400T14 ^③
With red RUN pilot light		P8P23	P8P23	C400GK52_	—
With red RUN/GREEN off lights		P8P23P25	P8P23P25	C400GK55_	—
Start/stop pushbuttons	Mechanical three-wire C30CN	P7	P7	C400GK7	C400T200
With red RUN pilot light		P7P23	P7P23	C400GK72_	—
With red RUN/GREEN off lights		P7P23P25	P7P23P25	C400GK75_	—
Start/stop pushbuttons	Electrical and mechanical two-wire C30CN	P7	P7	C400GK6	C400T13 ^③
With red RUN pilot light		P7P23	P7P23	C400GK62_	—
With red RUN/GREEN off lights		P7P23P25	P7P23P25	C400GK65_	—
HAND/OFF/AUTO cover control	Electrical and mechanical two-wire C30CN; CN35; A202	S3	S3 ^④	C400GK3	C400T12 ^③
With red RUN pilot light		S3P23	S3P23 ^④	C400GK32_	—
With red RUN/GREEN off lights		S3P23P25	S3P23P25 ^④	C400GK35_	—
Red RUN pilot light	All	P23	P23	C400GK42_	C400T9_
Green OFF pilot light		P25	P25	C400GK41_	C400T10_
Red RUN/green OFF pilot light		P23P25	P23P25	C400GK46_	C400T11_

Notes

- ① For use with non-combination units (box sizes 2–4).
 ② Add code letter from table below to catalog number for voltage in place of _.

Rating	Code Letter	Rating	Code Letter	Rating	Code Letter
24 V 60 Hz	T	240 V 60 Hz	B	480 V 60 Hz	C
120 V 60 Hz	A	277 V 60 Hz	H	600 V 60 Hz	D
208 V 60 Hz	E	380 V 60 Hz	L		

③ Selector switch.

④ With three-position selector switch, Mod **C20** (two-wire control relay) must be used with magnetically latched contactor (ECL04, ECL13, ECL15).

Accessories

Auxiliary Contacts

C30CN Electrically Held Contactors—The base C30CN product line can accept up to four auxiliary contacts (2NO/2NC), which are mounted on the top of the unit. The auxiliary contacts, rated A600, are also suitable for use on low-level circuits down to 12 V, 5 mA.

CN35 Electrically Held Contactors—Include a NO maintaining auxiliary contact mounted on the right side of the contactor or integral to the contactor. The 10–60 A devices will accept additional auxiliary contacts on the top (front) and/or sides. The 100–400 A sizes will accept side-mounted auxiliaries only.

Mechanically Held and Magnetically Latched

Holding circuit auxiliary contact, if needed, is not included and should be added separately as an option.

Power Poles for C30CN

The C30CN can be configured with up to 12 poles (30 A maximum per pole). Power poles are available in single or double pole designs and can be mounted to provide either normally open or normally closed operation with a maximum of 12 NO poles or 8 NC and 4 NO poles. Each pole is capable of accepting up to 8 AWG wire.

Two-Wire or Three-Wire Control Module for C30CN

A mechanical latch with a two- or three-wire electronic control module delivers reliable performance and protection from such application abnormalities as line noise, leakage currents from controller outputs, or short repetitive commands burst from faulty controllers. For enclosed control, units come standard with two-wire control.

IMPORTANT: Add the **C18** modification code to get three-wire control with the C30CN contactor.

Mechanically Held Kit for C30CN

A modification kit allows the conversion of an electrically held lighting contactor into a mechanically held contactor.

Coil Kits for C30CN

The C30CN line comes in a wide range of input voltages and with coils from 24 Vac to 600 Vac.

Two-Wire Control Relay for A202

The two-wire control relay is designed to field convert three-wire magnetically latched lighting contactors to operate controls such as photocells and timers. Terminal blocks included for fast wiring installation.

Enclosed Lighting Contactors



Type 1 Two-Wire Control Relay

Description	Magnetic Coil Voltage	Type 1 Catalog Number	Type 3R Catalog Number
Two-wire control relay	120	ECLC201A	ECLC202A
	208	ECLC201E	ECLC202E
	240	ECLC201B	ECLC202B
	277	ECLC201H	ECLC202H
	480	ECLC201C	ECLC202C