

# ASCO 641 Lighting Contactor Panel

## Standard and Custom Solutions for Area and Security Applications



The ASCO 641 Lighting Control Panel offers contractors a complete, single-enclosure solution that includes multiple ASCO Lighting Contactors and a range of related controls and accessories. It saves space and can be installed quickly, with a minimum of on-site wiring.

All 641 Lighting Control Panel components are factory wired and tested to help ensure proper system operation and long-term reliability. Integrating components into a single enclosure eliminates the need to order from multiple manufacturers and the scheduling, billing and multiple contacts that requires.

The ASCO-engineered panel meets applicable code

standards. In fact, certain lighting contactors are UL listed for short circuit withstand current ratings.

The panel also is fully documented to ease troubleshooting, if ever necessary. It's based on ASCO's 100-year tradition of applied technology and the quality assurance that's designed into every ASCO product.

## ASCO 641 Lighting Contactor Panel Array

- ① ASCO 918 Lighting Contactor
- ② Control Switch
- ③ Hands Off Auto
- ④ Power Fusing
- ⑤ Customer Terminal
- ⑥ Time Clock



Custom configurations can include a range of controls and accessories to complement one or more ASCO Lighting Contactors.

## ASCO 918 Product Description Offering

918	6	20	3	1	0
Product	# of Poles	Amps	Voltage	Sub-Panel	Open Frame
918	4 6 8 12	20	3 = 110-120V 6 = 208-240V 7 = 265-277V	1	0

Notes : 1. 4 pole units only available on Standard 641 units not Custom.

2. Subpanels are standard with all 641 product.

3. All 641 units will be open frame 918 individual units.

## The 918 Lighting Contactor Is the Heart of the 641 Lighting Control Panel

The ASCO 918 Remote Control (RC) Lighting Contactor is the heart of the ASCO 641 Lighting Control Panel. It provides reliable and

convenient lighting control in a variety of applications. It is rated at 30 amperes to 600 volts AC and is listed to UL 508.

Solid-state control modules enable energy management systems, microprocessors, photoelectric cells, timers and similar control devices to manage the lighting contactor.

## Distinguishing Features

### Performance Features

- 3 standard models to choose from
- Feature ASCO 918 RC Contactors. (electrically operated, mechanically held, designed for lighting applications)
- Quieter operation (no AC hum)
- Longer life expectancy for contactor
- Fully rated for all types of lighting loads, including metal halide, mercury vapor, quartz halogen, tungsten, and fluorescent

### Construction Features

- All controls, except for photocell, in common Type 1 enclosure (Type 12, 3R, 4, and 4X enclosures are available)
- Available in 6 or 12 pole design
- ASCO 918 visual position indicators show open/closed position of each main contact
- ASCO 918 line, load, and control terminals accept no. 18 to no. 10 AWG wire
- Large dial, multifunction 7-day timer with reserve power feature or digital time clock with battery backup (Models 641A, 641 S)
- Clamp-type, self-rising terminal plates for solderless connection with the screws for fast termination

### Electrical Features

- Available 120 or 277 V, 60 Hz control
- All control wiring stranded #14 AWG
- UL 1015 Red wiring
- Terminal block for all incoming wiring
- Fused power circuit
- UL Listed to UL508 Industrial Controls
- Rated 20 amps to 600 VAC (30 amps general purpose)
- Fully rated for all types of lighting loads
- High withstand current ratings

## Standard Configurations

Standard panels feature the ASCO 918 Lighting Contactor that's based on ASCO's electrically operated, mechanically held solenoid operator that also is the heart of all ASCO power transfer switches.

The solenoid does not rely on magnetic latches or impressed current to maintain contacts in the open or closed position. The contactor offers quieter operation, longer life expectancy and eliminates the continuous power drain associated with electrically held solenoid designs.

This contactor is specifically designed for metal halide, mercury vapor, quartz halogen, tungsten and fluorescent lighting systems.

## Custom Configurations

Custom configurations for comprehensive lighting control requirements can include up to 10 lighting contactors in one enclosure, in addition to related controls and accessories.

Besides the 918 Lighting Contactor, the panel also is available with the 920 Lighting Contactor. Panels configured with 920 Lighting Contactors become the ASCO 642 Lighting Contactor Panel.

Controls and accessories can include relays, building management interfaces, time clocks, photocell interfaces, pilot lights, control switches, power fusing, and other functionalities.

## A Range of Lighting Control Applications

The lighting control panel is ideally suited for ballast lighting, tungsten and general-purpose loads. The ASCO 641A Lighting Contactor Panel satisfies requirements of large-area applications. 641S meets requirements for security applications and 641 AS meets requirements for both.

Applications include large areas, stadium parking garages and facilities using TOD (Time of Day) photo-sensor control for automatic on-off operation. Other applications are signs, interior and exterior building lighting, interior safety lighting, recreational lighting and applications suitable for manual on-off operation.

The 641 Lighting Control Panel is available in standard and highly customized configurations. Three standard configurations offer quicker delivery, while customized configurations offer the flexibility to tailor performance to site-specific requirements.

## ASCO 641 Standard Lighting Control Units

Catalog Number	Poles	Voltage	Time Clock
641AS043CPDST	4	120	Intermatic 365-Day Digital Display Timer
641AS083CPDST	8		
641AS123CPDST	12	277	
641AS047CPDST	4		
641AS087CPDST	8		
641AS127CPDST	12		
641AS043CPD7	4	120	Intermatic 7-Day LCD Display Timer
641AS083CPD7	8		
641AS123CPD7	12	277	
641AS047CPD7	4		
641AS087CPD7	8		
641AS127CPD7	12		
641AS043CTM7	4	120	Intermatic 7-Day Electro Mechanical Timer
641AS083CTM7	8		
641AS123CTM7	12	277	
641AS047CTM7	4		
641AS087CTM7	8		
641AS127CTM7	12		

Note: All Units Include (2) 918 20A Contactor with (2) Accessory 47 - 2- Wire Control voltage and (2) 53B - Hands Off Auto Control switch mounted on the front of the enclosure.

## 641 Available Options

- Control switches 2 & 3 – Wire
- Hands off Control – 3 position selector switch
- Momentary Toggle switch Hands off with Center off position
- Double Throw Aux Contacts
- Photocell (Shipped Loose)
- Push Button Controls
- Pilot Lights/Alarm Lights
- Control Power Transformers
- Time Clock (Intermatic Tork Name brands)
- Control Relays
- Terminal Blocks
- Control circuit fuses

## ASCO 641 Standard Lighting Control Units (Area & Security)

Catalog Number	Poles	Voltage	Time Clock
641S043C	4	120	N/A
641S083C	8		
641S123C	12	277	
641S047C	4		
641S087C	8		
641S127C	12		
641AS043CPDST	4	120	Intermatic 365-Day Digital Display Timer
641AS083CPDST	8		
641AS123CPDST	12	277	
641AS047CPDST	4		
641AS087CPDST	8		
641AS127CPDST	12		
641AS043CPD7	4	120	Intermatic 7-Day LCD Display Timer
641AS083CPD7	8		
641AS123CPD7	12	277	
641AS047CPD7	4		
641AS087CPD7	8		
641AS127CPD7	12		
641AS043CTM7	4	120	Intermatic 7-Day Electro Mechanical Timer
641AS083CTM7	8		
641AS123CTM7	12	277	
641AS047CTM7	4		
641AS087CTM7	8		
641AS127CTM7	12		

Note: All (S) Security Units Include (1) 918 20A Contactor with (1) Accessory 47 - 2- Wire Control voltage and (1) 53B - Hands Off Auto Control switch mounted on the Front of the enclosure.

**Configure an ASCO 641 Lighting Contactor Panel according to your facility's specific lighting requirements.**

**The range of accessories and related control products provide a high degree of customization.**

## ASCO 641 Optional Accessories

Accessory	Description
47	Solid state control module for 2-wire control
48	Solid state control module for 3-wire control
53B	Hands off auto 3 position selector switch with center off position
53BK	Key operated hands off auto 3-position selector switch with center off position
53A	Momentary toggle switch with center off position for 3-wire control
53AK	Keyed momentary toggle switch with center off position for 3-wire control
14H	One (1) form C one pole double throw aux contact
14HA	Two (2) form C one pole double throw aux contact
9A/B	(2) indicating lights on/off

# ASCO® ASCO 641 Lighting Contactor Panel

## ASCO 641 Timers

Standard Timers	Optional Timers	Timer Descriptions
Code - PDST Code - PD7 Code - TM7	T1 T2 T3 T4 T5 T6 T7 T8	Intermatic - 365 Day Digital Display Intermatic - 7 Day LCD Display Intermatic - Electro Mechanical 7 - Day Time Dial Tork - 7 or 365 Day LCD Display Tork - 7 - Day LCD Display Intermatic - 7 - Day 2 - Output Astro Digital Display Tork - 365 Day 2 - Output LCD Display Intermatic - 365 Day (4) Output Digital Display

## ASCO 641 Ordering Information

641 + 2 + 1 + 20 + P + T1 + C + 2

Product	# of 6 Pole	# of 12 Pole	Amps	Photocell	Timeclock	Enclosure		Size of Enclosure
918	1	1	20 A	0 = No Photocell	T1	C	Type 1 (Standard)	1 = 1-2 Units
	2	2			T2			
	3	3		OR	T3	F	Type 3R Secure (Outdoor)	2 = 2-3 Units
	4	4			T4			
	5	5		Note 1:P = Photocell	T5	L	Type 12	3 = 3-4 Units
	6	6			T6	H	Type 4X	4 = 4-6 Units
	7	7			T7	G	Type 4	5 = 6-9 Units
	8	8			T8			
	9	9						
	10	10						

Note : Maximum (10) 918's based on combination of 6 and 12 pole units  
Note : Unit is combination of contactors and timeclocks.

Compare, Then Prefer, ASCO

Compare all-in-one lighting contactor panel products, then prefer the ASCO 641 Lighting Contactor Panel for efficiency, reliability and performance.

For more information,  

- Call 800-800-ASCO (2726)
- Email [customercare@asco.com](mailto:customercare@asco.com)
- Visit [EmersonNetworkPower.com/ASCO](http://EmersonNetworkPower.com/ASCO)
- Visit [ascoapu.com](http://ascoapu.com)