

A20 series Control Units Special Features

Compact and light weight
 IP20 finger-safe screw terminals (IEC60529)
 Separate contact block makes installation and removal easy.
 Pilot lights feature a large lens for a wide viewing angle.
 Matted surfaces on the buttons, lenses, and bezels reduce reflection of ambient light.
 UL、cUL listed, CCC approved and EN compliant.



UL508、CSA C22.2 No.14、
 EN60947-1、EN60947-5-1
 GB14048.5
 (Pending)



● Contact Ratings (Contact Block)

Rated Insulation Voltage		600V			
Rated Terminal Current		10A			
Operating Voltage		24V	120V	240V	380V
AC 50/60Hz	Resistive Load(AC-12)	10A	10A	6A	2A
	Inductive Load(AC-15)	10A	6A	3A	1.9A
DC	Resistive Load(DC-12)	8A	2.2A	1.1A	—
	Inductive Load(DC-15)	4A	1.1A	0.55A	—

Minimum applicable load (referred values)=3V AC/DC . 3mA
 (Use range depends on the use conditions & load types)

● LED Lamp Ratings

Type No.	Rated Voltage	Rated Current	Color Code
LAED-6①	6V AC/DC	10mA(A、R、Y) 7mA(G、PW、S)	A (amber) G (green) PW (pure white) R (red) S (blue) Y (yellow)
LAED-1①	12V AC/DC	14mA(A、R、Y) 13mA(G、PW、S)	
LAED-2①	24V AC/DC	14mA(A、R、Y) 13mA(G、PW、S)	
LAED-H①	110V AC/DC	5.5mA	
LAED-M3①	230/240V AC/DC	2.7mA	

Note: Specify a color code in place of ① in the Type No.
 Yellow LED lamps are used for white illumination of pilot lights and illuminated pushbuttons.

● Incandescent Lamp Ratings

Type No.	Rated Voltage	Ratings
LA-T6P	6V AC/DC	1W (6.3V)
LA-T8P	12V AC/DC	1W (18V)
LA-T3P	24V AC/DC	1W (30V)

● Mounting Hole Layout (mm)

* Keep a minimum spacing of 50mm when using a lamp of over 1W

Unit	A(mm)	B(mm)
Emergency stop switch	50mm above	50mm above
Pushbutton	50mm above	30mm above
Selector switch		40mm above
Mushroom pushbutton	50mm above	40mm above
Pilot light	30mm above*	30mm above

● Specifications

Operating temperature	-25 ~ +55°C (no freezing)
Operating humidity	45 ~ +85% (no condensation)
Storage temperature	-45 ~ +85°C
Degree of Protection	From panel front: IP65(IEC 60529) Terminal: IP20(IEC 60529)
Insulation Resistance	100M above
Dielectric Strength	Contact block: 2500V, 1 minute Pilot Light: 2000V, 1 minute
Vibration Resistance	<Emergency stop switch> Operating extremes/Damage limits: 10 to 500Hz, amplitude 0.35 mm, acceleration 50 m/s ² <Pushbutton, pilot light, illuminated pushbutton, and selector switch> Damage limits: 30Hz, amplitude 1.5mm
Shock Resistance	<Emergency stop switch> Operating extremes: 150 m/s ² Damage limits: 1000 m/s ² <Pushbutton, pilot light, illuminated pushbutton, and selector switch> Operating extremes: 100 m/s ² Damage limits: 1000 m/s ²
Mechanical Life (minimum operations)	<Emergency stop switch> 250,000 (single contact block) <Pushbutton and illuminated pushbutton> Momentary: 5,000,000 (single contact block) 1,000,000 (double contact block) Maintained: 250,000 (single contact block) 100,000 (double contact block) <Selector switch> 250,000 (single contact block) 100,000 (double contact block)
Electrical Life (minimum operations)	<Emergency stop switch> 100,000 (single contact block) <Pushbutton switch> 100,000 (single contact block) 50,000 (double contact block) <Selector switch> 250,000 (single contact block) 100,000 (double contact block)

● Embedded type mounting dimensions (mm)

Component	A(mm)	B(mm)
Pushbuttons with metal bezel	>50	>35
Selector switches with metal bezel		>35
Key selector switches with metal bezel		>35
Mushroom pushbuttons with metal bezel	>50	>40