



## SCHNEIDER ELECTRIC ALTERNATING RELAY



The Alternating Relays Are Used to Alternate the Use of 2 Motor Circuits. When the Coil is Energized the First Time, One Contact Closes and Will Open When the Coil is De-Energized. When the Coil is Energized Again the Other Contact Will Close and Will Open When the Coil is De-Energized. The Contacts From the Alternators Are to Be Used In the Control Circuit of Starters That Control Pumps or Compressor Motors.

- Can Be Wired In A Control Panel or As a Separate Unit
- NEMA A600 Rated Fixed Contacts
- UL Listed, CSA and CE Certified
- SPST Contacts
- Compact Design 45mm Wide
- Can Be Mounted on 35mm DIN 3 Track or Direct Panel Mount
- Screw Clamp Terminals

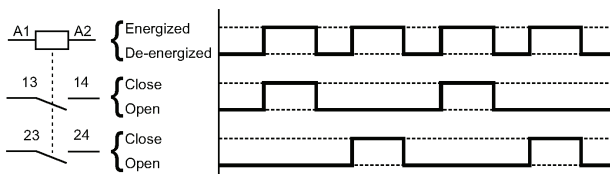
Part No.	Volts 60Hz	Operating Range
CA2SKE20-G7	120	102V-120V
CA2SKE20-M7	208/220	187V-220V
CA2SKE20-U7	230/240	204V-240V
CA2SKE20-T7	480	408V-480V
<b>NEMA 1 General Purpose Enclosure</b>		
CA2SKE20-G7NE	120	102V-120V
CA2SKE20-M7NE	208/220	187V-220V
CA2SKE20-U7NE	230/240	204V-240V
CA2SKE20-T7NE	480	408V-480V
<b>Enclosure Only 8L x 6W x 4H</b>		
ASE8X6X4		

\*\*\* When Selecting the Alternating Relay Choose the Model Number Closest to Your Operating Voltage.

Coils Can Operate Within a 15% Range.  
Do Not Exceed Your Operating Voltage As the Life of the Coil Will Be Shortened.

### Functional diagram

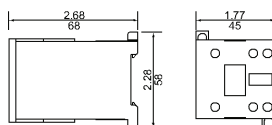
Mini-control relays with alternating contacts CA2SKE20



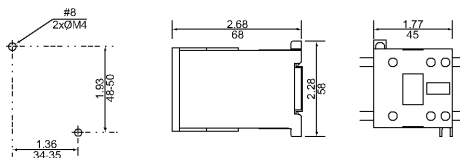
The Schneider Electric Alternator Uses Two SPDT Contacts to Switch the Load. To Match Wiring When Replacing A Hubbell Alternator (Which Uses a SPDT Contact Arrangement) Jumper Pins 13 & 23 On the Schneider Electric Alternator.

### Dimensions

CA2-SKE  
On panel



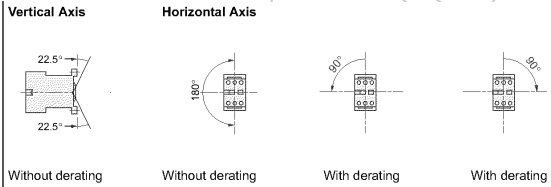
On rail AM1-DP200 or AM1-DE200  
(~35 mm)



Dual Dimensions:  $\frac{\text{Inches}}{\text{Millimeters}}$

Effective Date 07-30-2010

### Environment

Rated Insulation Voltage	Conforming to IEC 947,VDE 0110 gr C, BS 5424, CSA 22-2n°14, UL 508	690V			
Conforming to Standards		IEC 947, NF C 64-110 ,VDE 0660, BS 5424			
Approvals		UL Listed, CSA & CE Certified			
Protective Treatment	Conforming to IEC 68 (DIN 50015)	"TC" (Klimafest, Climate Proof)			
Degree of Protection	Conforming to VDE 0106	Protection Against Direct Finger Contact			
Ambient Air Temperature Around The Device	Storage	-50 °C to +70 °C (-76 °F to 158 °F)			
	Operation	-20 °C to + 50 °C (14 °F to 122 °F)			
Maximum Operating Altitude	Without Derating	6252 Feet (2000m)			
Operating Position	Operating position	 <p>Without derating      Without derating      With derating      With derating</p>			
Cabling Screw Clamp Terminals	Solid Conductor	Minimum		Maximum	
		#16 AWG 1 x 1.5 mm <sup>2</sup>	Or #16 AWG 2 x 1.5 mm <sup>2</sup>	#10 AWG #1 x 6 mm <sup>2</sup>	Or #12 AWG 2 x 4 mm <sup>2</sup>
	Flexible Cable without Cable End	#20 AWG 1 x 0.5 mm <sup>2</sup>	#22 AWG 2 x 0.35 mm <sup>2</sup>	#10 AWG 1 x 6 mm <sup>2</sup>	#14 AWG 2 x 2.5 mm <sup>2</sup>
	Flexible Cable with Cable End	#22 AWG 1 x 0.35mm <sup>2</sup>	#22 AWG 2 x 0.35 mm <sup>2</sup>	#10 AWG 1 x 6 mm <sup>2</sup>	#16 AWG 2 x 1.5 mm <sup>2</sup>
Tightening Torque	n°1 Head	7.08 lbf-in (0.8 N•m)			

### Control Circuit Characteristics

Related Control Circuit Voltage (Uc)		24-400 V
Control Voltage Limits ≤ 122 ° F (50 ° C) Single Voltage Coil	For Operation	0.85-1.1Uc
	For Drop-Out	≥ 0.20Uc
Average Coil Consumption at 68 ° F (20 ° C) and at Uc	Inrush	23 VA
	Sealed	4.9 VA
Heat Dissipation		1.5 W
Operating Time at 20 ° C and at Uc	Between Coil Energization And: - Closing of the N/O Contacts	8-16 ms
	Between Coil De-Energization And: - Opening of the N/O Contacts	8-10 ms
Maximum Operating Rate	In Operating Cycles Per Hour	1200
Mechanical Durability at Uc In Millions of Operating cycles	50/60 Hz Coil	10