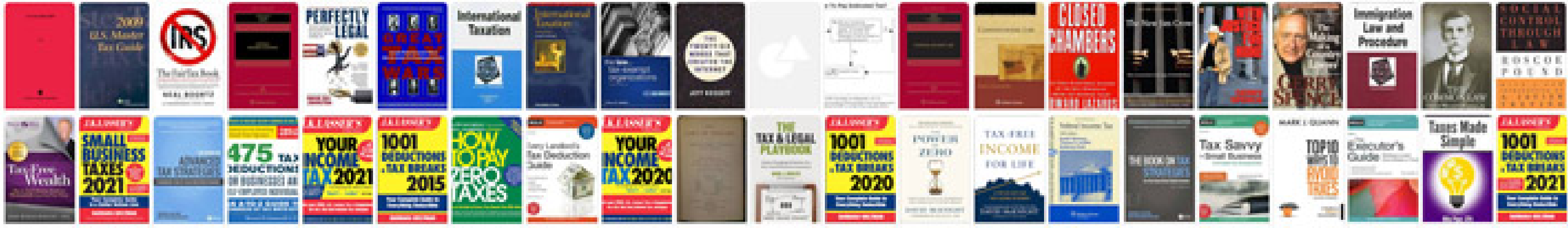

Ac service disconnect

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It only takes a minute to sign up. About times per summer the same fuse blows in my AC service disconnect. Always the one on the left. The fuses are 30A and on the panel there are two 30A breakers. The fuse blows typically on a very hot day when the AC runs for quite a while. My guess is that there's just a bit more resistance on that side due to age or loose wire or evil spirits? The breakers never trip. Is there any reason I shouldn't replace the disconnect with a non-fused model? Does it even make sense that the disconnect itself could be the culprit, or should I be hunting other issues? The feed to the panel looks like 6 al and aluminum wire can loosen over time and with load. I'd check the connections in the panel. You can change the fusible disconnect to a non fusible one. Make sure it is rated for aluminum cable. You would need either a 30 or 60 amp depending on what you find when you get the name plate info. You've got breakers for the compressor and the air handling unit so make sure you know which ones are which, though the breakers for the air handler would be higher amperage if there's a strip heater in it. Sign up to join this community. The best answers are voted up and rise to the top. AC service disconnect keeps blowing fuses Ask Question. Asked 1 year, 7 months ago. Active 1 year, 7 months ago. Viewed times. Improve this question. Can you post a photo of the nameplate label on your air conditioner compressor? ThreePhaseEel Might have one from when I changed a capacitor a couple years ago will have to dig around a bit this afternoon. If not will get down there this weekend and can take a picture, but was hoping to address the issue while there. I am confused. What is the circuit breaker rated at? Also what are the fuses rated at? Will plan on getting more info this weekend, lift the panel's skirt for a few photos and get details on the condenser, check connections and report back. Thanks all! Show 3 more comments. Active Oldest Votes. Improve this answer. Add a comment. Sign up or log in Sign up using Google. Sign up using Facebook. Sign up using Email and Password. Post as a guest Name. Email Required, but never shown. Featured on Meta. Visual design changes to the review queues. Opt-in alpha test for a new Stacks editor. Related 7. Hot Network Questions. Question feed. An Air Conditioning Disconnect ACD provides an installer or repair personnel with a visible disconnecting means while performing maintenance on an air conditioning unit. Devices are available in fused, non-fused, molded case switch or three phase designs, and in metal or plastic enclosures for all application. Questions before you buy, or about a product you already own? Switches and disconnects Air Conditioning Disconnects. Overview Models Resources. How to buy Locate a distributor Contact me. Back to search. Serial Number Verified :. Authenticated: The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product. Air Conditioning Disconnects. Contact me. Check out the fundamentals of safety switches and disconnects. Core features Non-fused pullout and molded case switch devices provide a visible on-off disconnecting means. Easy-to-remove high strength protective shield makes wiring and mounting easier. Easy-to-remove front cover no screws or fasteners to remove allows easy access. Padlockable door provision increases safety and reduces tampering. Easy installation with multiple mounting options and oversized enclosure allows for ample wiring space. A visible means of disconnect Air Conditioning Disconnects ACD are located between a load center and an air conditioner. ACDs provide a visible disconnecting means when performing maintenance and are commonly referred to as disconnects, pullouts or air conditioning switches. Specifications 65 Results. Eaton air conditioning disconnect, 60A non-fusible pullout device. Load more. Air conditioning disconnect technical information. Download Links. Air conditioning disconnects. Air conditioning disconnects with GFI receptacle. Rotate your way to the easiest and fastest ACD installation. Warranty guides. Air conditioning disconnects limited warranty. White papers. Non-metallic air conditioning disconnect: debunking myths of thermoplastics NEW. This document debunks common misconceptions about thermoplastic electrical enclosures. Need product support? Technical Support Information Questions before you buy, or about a product you already own? How to buy from Eaton. Locate a distributor. We provide sustainable solutions that help our customers effectively manage electrical, hydraulic, and mechanical power â€" more safely, more efficiently, and more reliably. Quick links. Let's talk big ideas View all social media. An AC disconnect is also known as an air conditioner switch box or fuse box. It contains the controls for the main energy supplier of the air conditioner, like the breakers and fuses. It also protects the wires of the air conditioner from weather and other outdoor elements. Usually AC disconnects are found outside, with the end of the AC showing inside the house. This is because the AC needs to expel hot air. An AC disconnect box can either be a pull-out or an enclosed molded case. The latter is preferred because it withstands the elements of weather better. Most houses have air-conditioners nowadays because air conditioners have dual functions , they can cool the air and they can also clean the air. Many people rely on AC to be able to live a comfortable life. Make sure to always check on the air conditioner box and make the necessary repairs as soon as you think one is needed. When it comes to anything technical or anything that involves electricity, it is best to ask trained professionals to do it for you, or at least ask them for a consultation. Major disasters and unnecessary accidents will be avoided if you seek professional advice. If there is no power being supplied to the condenser, it is time to check the breakers and the fuses inside the AC disconnect box. Extreme caution should be taken because the AC disconnect may contain high voltage. If you are unsure whether or not some of the breakers and fuses need changing, ask a professional to do it for you. It is always better to be safe than sorry. The AC disconnect box is like the central nervous system of the air conditioner, it protects the breakers and the fuses. If it is too weathered, water and other environmental elements can destroy the breakers, or fuses, which in turn affects the performance of the air conditioner. It is therefore important for you to make sure that the AC disconnect box is always working its best. Do not change the air conditioner disconnect box unless you are a trained professional. We welcome your comments and suggestions. All information is provided "AS IS. All rights reserved. You may freely link to this site, and use it for non-commercial use subject to our terms of use. View our Privacy Policy here. Toggle navigation subscribe. Written by Doityourself Staff. To ensure our content is always up-to-date with current information, best practices, and professional advice, articles are routinely reviewed by industry experts with years of hands-on experience. Charles Ouellet. Read More. I had a goodman 2. AC starts, then immediately shuts off then starts again. Hello, Could someone please help me with the problem with my 10 yrs old Tr Common wire - Nest thermostat- help. Ok I am going to install a mini split AC unit at my daughter's house. I'm getting the material together to install a water proof v disconnect I installed anew thermostat for my Rheem heat pump. Switched to from an Popular Articles. How to Replace a Central Air Conditioner By Dustin Camilleri. By Benjamin Roussey. Troubleshooting a Car Air Conditioner Th By KC Morgan. Every three years, the NEC National Electrical Code creates updates to their electrical wiring and equipment installation requirements for the safety of the electrical contractors performing the installations, as well as for homeowners, business owners, first responders, etc. The new NEC has a newly added article titled: It states:. For one- and two-family dwelling units, all service conductors shall terminate in disconnecting means having a short-circuit current rating equal to or greater than the available fault current, installed in a readily accessible outdoor location. If more than one disconnect is provided, they shall be grouped. Each disconnect shall be one of the following:. To put this simply, this new section of the NEC says that there should be an emergency disconnect on the outside of a home. An emergency disconnect is a switch that will shut off the power coming from the utility power service to the entire house in case of an emergency. In some states of the U. For those states in the U. The NEC is always making revisions and additions to provide the utmost safety for everyone. In regards to the additional article detailing emergency disconnect requirements for the NEC , it is mainly to keep first responders and utility personnel safe. First responders of emergencies like house fires need to be able to disconnect power from a home safely to avoid electrical hazards before entering. Some townships and boroughs are still only implementing earlier years for code requirements. Please contact your township for more information on which NEC needs to be implemented for new construction, renovations, and electrical equipment replacements. It is always still a good idea to keep your home up to the latest NEC standards for safety and compliance. We can help you determine what NEC year your township requires to keep your home up-to-code if needed, and we can help you install your new emergency disconnect on the exterior of your house. Call us today! Street Address. Zip Code. Email Address. Emergency Disconnect Requirements For The NEC What To Know Every three years, the NEC National Electrical Code creates updates to their electrical wiring and equipment installation requirements for the safety of the electrical contractors performing the installations, as well as for homeowners, business owners, first responders, etc. InspectAPedia tolerates no conflicts of interest. We have no relationship with advertisers, products, or services discussed at this website. What is the requirement for placement, distance, and readily accessible nature of the disconnect or motor controller for equipment operated by an electric motor. NEC code citations, excerpts, discussion. This article series explains where to find and how to use the switches and controls for air conditioning and heat pump systems. We list and explain the function of each air conditioner or heat pump control or switch, including providing identification photographs and troubleshooting tips. This might be a dangerous installation, risking fire as well as a burn up of the air conditioning equipment. But as Mark Cramer [contact reference] pointed out, if the circuit were properly protected by breakers or fuses at the main panel, the insertion of metal pipes in these fuse sockets just converts the device from a fuse box to a simple switch. An on-off switch is all that is required for this location and application by electrical codes. Service switches permit a service technician to work safely on the equipment by turning off electrical power to the unit without having to run back and forth through the building to the main electrical panel. Second, ask yourself, "What happened to the screws that were used to fasten this switch to the building wall? We've seen cases of the mounting screws falling into the switch box, causing a short circuit or even a fire. In this particular case the vinyl siding installers pulled the switch loose to install siding and didn't bother to reinstall it. NEC I [DF] have encountered these installations at both walk-in coolers and some commecial freezers. NEC includes definitions of readily accessible and of within sight. For cord-connected equipment such as room air conditioners, household refrigerators and freezers, drinking water coolers, and beverage dispensers, a separable connector or an attachment plug and receptacle shall be permitted to serve as the disconnecting means. For a room air conditioner such as a window-unit, an electrical cord plug that can be simply un-plugged from the electrical receptacle counts as an acceptable disconnect provided the cord is shorter than 6 ft. Disconnecting means shall be located within sight from and readily accessible from the air-conditioning or refrigerating equipment. The disconnect- ing means shall be permitted to be installed on or within the air-conditioning or refrigerating equipment. The disconnecting means shall not be located on panels that are designed to allow access to the air-conditioning or refrigeration equipment or to obscure the equipment name- plate s. Exception No. The provision for locking or adding a lock to the disconnecting means shall be installed on or at the switch or circuit breaker and shall remain in place with or without the lock installed. Informational Note No. Examples where this exception apply include room air conditioners, home refrigerators or freezers, similar free-standing plug-in cooling appliances. An attachment plug and re- ceptacle or cord connector shall be permitted to serve as the disconnecting means for a single-phase room air condi- tioner rated volts or less if. Where a flexible cord is used to sup- ply a room air conditioner, the length of such cord shall not exceed 3. Within sight of is defined as within 50 feet 15 m and able to be seen from the component being disconnected and vice versa. The disconnect also has to be directly accessible, so "seen through a window or over a fence" would not be acceptable as it would not be safe. We have read reports that some local building code officials may require a closer distance - 3 feet - to the switch. Note that for the indoor equipment the rule is a bit different. A controller is defined in NEC It's worth noting that for commercial installations OSHA Additional protection for the worker is required. This rule provides safety for workers on equipment that might be switched on or off without power passing through a separate motor controller device. Where both an electrical disconnect and a separate motor controller are both installed, at least one of these devices capable of turning off the motor itself and thus turning off the machinery it drives must be within sight from the motor and must be readily accessible. Where the electrical motor disconnect is within sight of and readily accessible to both the motor controller and the motor itself and the equipment driven by the motor then the electrical disconnect will satisfy both NEC A and NEC B. Exceptions to these US NEC provisions are permitted where applying the provision is not feasible or not safe. Where there are multiple motor controllers installed, NEC If you are referring to an indoor or outdoor electrical power switch, check with your local electrical supplier. If you are referring to the compartment cover or door of an air handler, possibly so, if you can read the manufacturer's name and box model number, just give the manufacturer a call. On - by mod - AC condenser unit distance to electric meter? Thanks for asking. Is it code in most states for ac compressor to be a certain distance from the electrical service? Kevin I'm of course worried about guessing when I'm not clear what's happening, but in general, sure all circuit breakers for the AC system need to be in the ON position. I noticed in the late afternoon that my AC was not coming on in the house. It was working fine just the night before and into the early morning. As the day progressed I noticed it was getting hotter in the house. I went to check the thermostat and it was completely blank. So, I checked all the breakers.. There are two beaker boxes on the wall outside by the unit fan.. One looks like it gives the main power but then there is another one The main breaker was on.. I reset them both.. So, I went and purchased a new thermostat. The original thermostat was not battery powered. The new one was battery powered. I made sure to connect all the wires back properly. I finished the unit assembly. Then I turned the breaker the unit back on.. I was expecting the unit to come on, but of course with my luck it did not come on. I checked the fuse on the electrical panel in the main board of the unit, it was fine too. So, does both breakers outside need to be in the on position, and why does the unit still not come on with the replacement thermostat? Any Clues? Ernest: Sure, I don't see the issue, but may be I'm missing something in your question. If you mean, not the main electrical panel but rather the service switch for the AC compresor, the switch has to be readily-accessible and in line of sight view from the compressor unit. Beyond that, any question of distance is in the purview of your local code inspector. On - by mod - can you put a disconnect before the panel and then use the same disconnect to power up your ac. No don't do that. For example if your main panel is Amps, the main disconnect will be a A switch. If you feed that wire and that AC unit from a switch that is rated to allow A you are not providing proper over-current protection to the AC unit nor to the wiring that supplies it. The risk is an electrical fire, injury, or worse. By code can you put a disconnect before the panel and then use the same disconnect to power up your ac unit then feeds your panel. Jim The "code" won't address re-using old components; A practical answer is that if the replacement parts fit inside the old enclosure with adequate clearance then there's no reason not to reuse the old disconnect box enclosure except perhaps cost; in at least some cases the added labor and the cost of replacement internal parts may be higher than if the disconnect is simply replaced with a new, already-assembled unit. You mean height from the roof surface? I expect it needs to be above possible snow height, must remain accessible, and must be in view of the HVAC equipment. Is there a minimum distance required for a disconnect off of a flat roof? Disconnect is for a condensing unit. On by mod - minimum distance required for a disconnect off of a flat roof? Short answer: NO you don't need a special circuit breaker for your air conditioner: all circuit breakers sized for use on residential air conditioner units will be suitable. But that's no longer the case. In the U. S, Section 7. Therefore there is no longer a requirement for special testing. In sum, you don't need a "special" circuit breaker for your air conditioner because now ALL circuit breakers with a UL listing are suitable for group motor applications requiring that HACR designation. I emphasize "properly sized" because air conditioner compressor motors cause a brief surge in current flow at the moment of start-up that can trip the breaker. For that reason, while a typical AC compressor unit might be wired for Amp VAC the electrical codes permit installing of a circuit breaker one size larger say 35A or 40A to prevent nuisance tripping. I'll look at your data tag and together we'll doubtless see what circuit breaker is permitted. Siemens provides a list of HACR-qualified circuit breakers at The 3 ft. Can electric be ran to outdoor condenser without disconnect as long as electric panel is outside within 3 feet. With the ducking and weaving that comes with not being able to actually see the installation that you're talkin about and a warning that of course there could be something there that is unsafe, I haven't found any restriction that prevents locating an emergency shut-off for an air conditioner outside compressor condenser unit below a window. Hi Joe, nice to hear from you. If in a particular case, locating the disconnect behind the condenser unit has jammed it into a location that would not be readily accessible then that location is improper. There has been a lot of chatter about where the switch must be, including just what is meant by "readily accessible" to include - within line of sight. The intention of the electrical code such as NEC There is a similar rule for room air conditioners that adds - Within 6 ft. Can you show me a photo of the switch and condenser in question? My photo below shows a unit that is too close to the wall and is tipping, but it's disconnect is readily accessible to one side. Please re-post the image if you can. On by mod - regulation that requires the electric disconnect switch to not be located behind the exterior condenser unit? Is there a regulation that requires the electric disconnect switch to not be located behind the exterior condenser unit? Try the search box just below, or if you prefer, post a question or comment in the Comments box below and we will respond promptly. Note: appearance of your Comment below may be delayed: if your comment contains an image, web link, or text that looks to the software as if it might be a web link, your posting will appear after it has been approved by a moderator. Apologies for the delay. Just ask us! Search the InspectApedia website. Comment Form is loading comments Carson Dunlop provides home inspection education, publications, report writing materials, and home inspection services. Thanks to Lester Richer , a professional home inspector, for the reminder that a bad air conditioner condensate drip tray switch can shut the whole system down. Althouse, C. Turnquist, A. Bracciano, Goodheart-Willcox Co. Warren Marsh, C. Whitman, William M. Tel: Email: info carsondunlop. Carson Dunlop Associates' provides extensive home inspection education and report writing material. The text is intended as a reference guide to help building owners operate and maintain their home effectively. Field inspection worksheets are included at the back of the volume. Skip to main content of results for "Air Conditioner Disconnect". Skip to main search results. Eligible for Free Shipping. Customer Review. Amazon Certified. From Our Brands. Packaging Option. New Arrivals. International Shipping. Price and other details may vary based on size and color. Amazon's Choice for Air Conditioner Disconnect. Get it as soon as Thu, Feb FREE Shipping. Only 8 left in stock - order soon. Get it as soon as Tue, Mar 2. Only 1 left in stock - order soon. N

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