Fused disconnect

Do you need help understanding switches and disconnects? If so, take a moment to get familiar with the fundamentals. Switches and disconnects. A full line of general-duty, heavy-duty, double-throw and hazardous area devices is expanded with a series of innovative new products for a vast variety of applications. What are safety switches? Learn more. Featured products. Eaton heavy duty single-throw fused safety switch. Eaton shunt trip safety switch. Go to Air Conditioning Disconnects. Air Conditioning Disconnects. Go to Auxiliary power safety switches. Auxiliary power safety switches. Go to Bussmann series CCP disconnect switches. Bussmann series CCP disconnect switches. Go to Bussmann series Enclosed disconnect switches. Bussmann series Enclosed disconnect switches. Go to Bussmann series Power Module Switches. Bussmann series Power Module Switches. Go to Bussmann series Safety switches. Bussmann series Safety switches. Go to Double door safety switches. Double door safety switches. Go to Double throw safety switches. Double throw safety switches. Go to Elevator control switch. Elevator control switch. Go to Enclosed Circuit Breakers. Enclosed Circuit Breakers. Go to Fusible panelboard and switchboard switches. Fusible panelboard and switchboard switches. Go to General duty safety switches. General duty safety switches. Go to Heavy duty quick connect safety switches. Heavy duty quick connect safety switches. Go to Heavy duty safety switches. Heavy duty safety switches. Go to Heavy duty safety switches with enhanced visible blade. Heavy duty safety switches with enhanced visible blade. Go to Heavy duty safety switches with surge protection. Heavy duty safety switches with surge protection. Go to OEM line isolation switches. OEM line isolation switches. Go to Pauluhn Interior Toggle Switch. Pauluhn Interior Toggle Switch. Pauluhn Marine Interlocked Disconnect Switch. Go to Pauluhn Marine Rotary Switch. Pauluhn Marine Rotary Switch. Go to Pauluhn Marine Snap Switch. Pauluhn Marine Snap Switch. Go to Pauluhn Watertight Snap Switch. Pauluhn Watertight Snap Switch. Go to Pauluhn Weatherproof Toggle Switch. Pauluhn Weatherproof Toggle Switch. Go to Pringle bolted pressure contact switches. Pringle bolted pressure contact switches. Go to Receptacle safety switches. Receptacle safety switches. Go to Rotary disconnects. Rotary disconnects. Go to Shunt trip safety switches. Shunt trip safety switches. Go to Solar disconnects. Solar disconnects. Go to Switching devices flex center. Switching devices flex center. Helping communities meet healthcare capacity requirements The COVID crisis requires unprecedented field hospitals and testing facilities. That's why we're working with the healthcare industry, contractors and consultants to deliver expertise and power management support where it matters. What are your unique needs? The Flex Center has been meeting unique switching device needs since Switching devices Flex Center. Our Flex Center is a flexible manufacturing facility that caters to customers' unique requirements. Double up on safety. ARMS enclosed circuit breaker. Demonstration of the Arcflash Reduction Maintenance System. 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. Bussmann series enclosed rotary disconnects provide an easy to install solution for providing a switch for power. UL load break disconnects for control and disconnecting means for motor applications. Overview Models Resources. How to buy Locate a channel partner Technical support. Back to search. Live chat. 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. Contact us. Core features Available in NEMA 1, 3R, 4, 4X, 12 enclosures for a broad range of application environments Most common disconnect switches in stock and ship within 24 hours with QuikShip Everyday Service to meet project requirements Multiple field installed accessories enhance the enclosed disconnect switches to fit the desired application UL Listed for motor disconnect applications 3- and 6-Pole UL motor disconnect switches provide flexibility for single or dual motor applications NEMA 4X 30A and 60A motor control disconnects. Competitor Cross Reference Made Simple. Find the right product for you. Bussmann series training on rotary disconnect switches. Helpful Resources. Bussmann Resource Center. US Sales Representatives. Distributor Locator - Worldwide. Specifications 28 Results. Check with your Eaton reseller or partner to get actual pricing. Download Links. Bussmann series UL A panel shop circuit protection solutions brochure no. Overview of the Bussmann series products and solutions available to meet the challenges of UL A panel shops. Bussmann series full line catalog , section disconnect switches. Disconnect switches available from Eaton's Bussmann Division. Bussmann series UL 98 disconnect switch auxiliary contacts for 30 to A, including enclosed disconnect switches IGS file. Drawings for Bussmann series UL 98 disconnect switch auxiliary contacts for 30 to A, including enclosed disconnect switches IGS file. Installation instructions. Bussmann series 16A to 80A UL disconnect installation instructions no. Bussmann series 6-pole conversion kit for 16A to 80A UL disconnect switches installation instructions no. Installation instructions for Bussmann series 6-pole conversion kit for 16A to 80A UL disconnect switches. Bussmann

series additional 4th switched pole for 16 A to 40 A UL disconnect switches no. Installation instructions for Bussmann series additional 4th switched pole for 16 A to 40 A UL disconnect switches. Bussmann series door mounting kit for UL disconnect switches installation instructions no. Installation instructions for Bussmann series door mounting kit for UL disconnect switches. Bussmann series installation instructions for 30A to A UL 98 fusible disconnect switches. Installation instructions for 30A to A UL 98 fusible disconnect switches. Bussmann series installation instructions for A UL 98 disconnect switches. Installation instructions for A UL 98 disconnect switches. Bussmann series installation instructions for A and A UL 98 fusible disconnect switches. Installation instructions for A and A UL 98 fusible disconnect switches. Bussmann series installation instructions for auxiliary contacts for UL 98 non-fusible disconnect switches. Installation instructions for auxiliary contacts for UL 98 non-fusible disconnect switches. Bussmann series installation instructions for direct handle for to A UL 98 fusible disconnect switches. Installation instructions for direct handle for to A UL 98 fusible disconnect switches. Bussmann series installation instructions for direct handle kit for 30A UL 98 fusible disconnect switches. Installation instructions for direct handle kit for 30A UL 98 fusible disconnect switches. Bussmann series installation instructions for external pistol handle for to A UL 98 non fusible disconnect switches. Installation instructions for external pistol handle for to A UL 98 non fusible disconnect switches. Bussmann series installation instructions for external pistol handles for 30A to A UL 98 fusible disconnect switches. Installation instructions for external pistol handles for 30A to A UL 98 fusible disconnect switches. Bussmann series installation instructions for flange shaft mechanism for 30 to A switches excluding 30A CC and 30A compact J no. Bussmann series installation instructions for UL 98, and A non-fusible disconnect switches. Installation instructions for UL 98, and A non-fusible disconnect switches. Bussmann series installation instructions for UL 98, A non-fusible disconnect switches. Installation instructions for UL 98, A non-fusible disconnect switches. Bussmann series terminal lug installation instructions for UL 98 fused rotary disconnect switches A. Terminal lug installation instructions for UL 98 fused rotary disconnect switches A. Product specification guides. Open Disconnect Switch Product Profile no. Need product support? How to buy from Eaton. Locate a channel partner Find a Bussmann series product distributor near you. 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. Forums New posts Search forums. What's new New posts. Log in Register. Search titles only. Search Advanced searchâ€¦. New posts. Search forums. Log in. For a better experience, please enable JavaScript in your browser before proceeding. Fused disconnects. Thread starter kfenn Start date Jan 15, Status Not open for further replies. Location Indiana. Can anyone tell me where in the code, when I need to use a fused disconnect? I can't seem to find it Location Massachusetts. Re: Fused disconnects You will have to be a little more specific. In a general sense the NEC does not require fused disconnects. The choice to combine these requirements is more of a design issue. Location NE Arkansas. Often equipment- especially air conditioning equipment- will say on theirnameplate "maximum fuse This fuse can be anywhere- in the disconnect, at the starter, at the panel, or standing alone. Since a disconnect is almost always required, this is a very convenient place for the fuses to be placed. Since fuses are not always required at the disconnect, the disconnect and fuse makers often sell solid metal blanks to use in place of fuses. Fuses have two advantages over circuit breakers. Fusing and conductor size Fusing and conductor size OK, Say you have an air conditioning unit with a dataplate showing Min. It is a dedicated circuit, presently with a 40 amp breaker and 10 wire. If I install a fused disconnect at the unit with 35amp fuses, can I leave the 40amp breaker and 10 wire? Location Louisville, Kentucky. OK, Say you have an air conditioning unit with a dataplate showing Min. Jim W in Tampa Senior Member. Location Tampa Florida. Often it may be part of the specs even thow its not needed. Often you will not know what the equipment will say till it arrives. In residential I have never seen it needed but commercial yes. DaveBowden Senior Member. Location St Petersburg FL. Wouldn't it be less expensive to install a 35 amp breaker and a non-fused disconnect and leave the 10 wire? Location Bremerton, Washington. You don't have to follow George Stolz Moderator Staff member. Tom Baker said:. Log In. Thank you for helping keep Eng-Tips Forums free from inappropriate posts. The Eng-Tips staff will check this out and take appropriate action. Click Here to join Eng-Tips and talk with other members! Already a Member? Join your peers on the Internet's largest technical engineering professional community. It's easy to join and it's free. Register now while it's still free! Already a member? Close this window and log in. Are you an Engineering professional? Join Eng-Tips Forums! Join Us! By joining you are opting in to receive e-mail. Promoting, selling, recruiting, coursework and thesis posting is forbidden. Students Click Here. Related Projects. I seem to get mixed answers on

this, but when do I use a fused disconnect instead of a non fused disconnect at a unit. My understanding is a fused disconnect can act as secondary protection to the overloads. I have read that on HVAC units you want to use a fused disconnect. So how would I determine what size needs one and which does not. If the circuit is protected upstream by a circuit breaker or another fuse, then the general rules of the NEC would not require another fuse at a local disconnect. For these systems, a current-limiting is required at some point in the circuit. So if the upstream device is a circuit breaker, the local disconnect will need to be fused in order to have an installation that meets UL requirements and hence, NEC requirements. Also, a non-fused disconnect switch will generally have a lower short circuit withstand rating than a fused switch, so for systems with a high level of available fault current, the fused disconnect may be a practical necessity. Yes the feeder of this circuit will have a circuit breaker. So for example a 50hp exhaust fan would not need a fused disconnect, just a standard disconnect? Probably not, but you need to look at the recommended installation information from the fan manufacturer. In most cases, a simple fan would not require a fuse, but if there were other things power from the same V circuit on the fan assembly e. For HVAC equipment this is most often an issue for package system such as heat pumps, chillers, air handlers, etc where a single power supply is run to the skid and there are starters, motor controls, breakers, etc provided with the HVAC system. But for UL-listed equipment, you pretty much have to install per manufacturer's directions, no matter how stupid it seems. Watch the ratings of non-fused disconnects. Most have a 5kA withstand rating unless there are current limiting fuses in the circuit; breakers don't get it in this application. So if you have more than 5kA fault current available at the disconnect locations you may well need to have the fuses anyway. Check with the manufacturer's literature. The SCCR rating issue looms large now in all cases. Nobody can second guess the appropriateness of a fuse installation without the risk of violating a UL listing any longer. Combined with a new focus by insurance adjusters to be looking for non-UL compliant equipment and voiding insurance claims if they find them, the issue needs to be taken very seriously. There are a LOT of extenuating circumstances when determining the proper Short Circuit Protective Device in a system; using a "Tips" website to evaluate them is wholly inadequate and you are asking for trouble. The NEC has drastically changed in this respect and the new rules are taking some time to be assimilated by the masses. At this point, don't assume anything without consulting a trained professional who is up to speed on the latest code changes. Since you are a EE, check with your buss fuse manufacture representative for a book that they hand out free explaining the use of the fuse and non fused disconnect usage and code compliance. This is pretty basic stuff that you need to know in your profession and they cover it well. My understanding is that fuses are acceptable motor overload protection per NEC if sized appropriately. I would not recommend it, but I do think it is allowed per code. Of course, the Bussman rep will have a strong, heart-felt opinion that a fuse can do just about anything. Quote: I was told by the Bussman fuse rep that this is can be used as secondary protection in case the overloads fail. Red Flag This Post Please let us know here why this post is inappropriate. Reasons such as off-topic, duplicates, flames, illegal, vulgar, or students posting their homework. New electrical systems and wiring harness engineering solutions implement automation, facilitate collaboration and accelerate verification. Download Now. Increasing automotive design complexity demands a shift away from legacy automotive design flows. The industry demands generative design. This report explains how TotalCAE makes it easy for organizations to utilize cloud computing on AWS to accelerate product innovation, solve complex engineering problems, and reduce the time waiting for CAE simulation results. Close Box. Posting Guidelines Promoting, selling, recruiting, coursework and thesis posting is forbidden. RE: when to use a fused disconnect If the circuit is protected upstream by a circuit breaker or another fuse, then the general rules of the NEC would not require another fuse at a local disconnect. RE: when to use a fused disconnect Thanks. RE: when to use a fused disconnect Probably not, but you need to look at the recommended installation information from the fan manufacturer. RE: when to use a fused disconnect Watch the ratings of non-fused disconnects. RE: when to use a fused disconnect jraef First of all I am a EE and second of all if the overloads fail in the motor there is a chance for a short circuit due to overheating and deterioration of insulation which can result in short circuit. RE: when to use a fused disconnect Since you are a EE, check with your buss fuse manufacture representative for a book that they hand out free explaining the use of the fuse and non fused disconnect usage and code compliance. RE: when to use a fused disconnect i was told by the bussman fuse rep that this is can be used as secondary protection in case the overloads fail RE: when to use a fused disconnect My understanding is that fuses are acceptable motor overload protection per NEC if sized appropriately. RE: when to use a fused disconnect Quote: I was told by the Bussman fuse rep that this is can be used as secondary protection in case the overloads fail In my opinion,

that is an irresponsible statement on the part of that Bussman rep. I have never heard or seen Bussman promote that concept, it would be opening them up to a lot of liability. The restrictions on fuse sizing along with the necessity for allowing motor starting without nuisance clearing precludes the use of using fuses as OL protection in all but the smallest of motor loads. Just because the NEC says you are not restricted from trying something doesn't mean that it will work! The fuse recommended for providing SC protection is a A dual element time delay. A Class 10 I 2 t overload relay should have dropped out the starter in approx. In fact if you look up the melt curve for a dual element fuse at that size, it may not even blow at A for 5 minutes, more than enough time to smoke the motor! Resources New electrical systems and wiring harness engineering solutions implement automation, facilitate collaboration and accelerate verification. Download Now Increasing automotive design complexity demands a shift away from legacy automotive design flows. Download Now This report explains how TotalCAE makes it easy for organizations to utilize cloud computing on AWS to accelerate product innovation, solve complex engineering problems, and reduce the time waiting for CAE simulation results. Skip to main content. Safety Switches. Type TG general duty safety switches are designed for residential and light commercial applications where duty is not severe. Type TH heavy duty safety switches are designed for commercial and industrial applications where safety, high performance and continuity of service are essential. Our mill duty safety switches are designed specifically for rugged conditions found in steel mills, cement foundries and process-related environments. Type TC and TDT double-throw safety switches are designed for applications with two sources of power where safety, high performance and continuity of service are essential. Type TC emergency power transfer switches are designed to permit the connection of power from a standby generator or other emergency source of electricity. Rotary Disconnects. Fusible Disconnects. Non-fusible Disconnects. Non-fusible Disconnects are a high performance, compact solution. ABB offers a wide variety of manual change-over switches, from 16 to Amperes in range. Manual change-over switches are available with three d how to reset volvo radio pt cruiser manual transmission removal 92 plymouth sundance

ifferent transition types; Thanks to a compact design, efficiency, and reliability, OTDC Rotary Enclosed. The eOT series of rotary enclosed switches are suitable for use as motor disconnects. Frame ratings of , , , , and A, both top and bottom feed, with IC ratings to kA with the appropriate UL Class L fuses. Elevator Switches. Most commonly used for elevator shafts and machine rooms to remotely disconnect main power prior to the activation of a sprinkler system. Plastic AC Disconnects. Versatile in application - use with air conditioners, water heaters etc. Steel AC Disconnects. Medium Voltage Indoor Switches and Disconnectors. Medium voltage indoor dry-air diode-based capacitor switch with servomotors actuation for capacitor banks up to VersaRupter switch-disconnector uses a puffer and nozzle system to efficiently extinguish the arc of full-load interruptions, voltage up to 38 kV, current up to A. HPC High Pressure. Product Selector. Contact us Contact us. Contact Us. Where To Buy.