

# Main Distribution Box Branch Circuits

Learn about the basics of branch circuits, according to the National Electric Code.

What is a Branch Circuit? A branch circuit is an electrical circuit in a building that supplies power to lights, outlets, and devices after it branches off from the main service panel or subpanel.

Main distribution boards (MDB) manage and distribute electrical power from one or more sources to branch circuits in an LV distribution system. It provides circuit breakers for each branch ...

What are the different types of distribution boxes? The table below provides a comprehensive overview of various distribution box types and highlights their key features and ...

What Is a Panelboard? A panelboard is a distribution assembly designed to divide an incoming electrical feed into numerous smaller branch circuits. Each circuit is protected by its own ...

What Is a Distribution Box (DB / Distribution Board)? A distribution box (distribution board / DB box) receives incoming power from the mains supply and safely distributes it to multiple branch ...

OverviewNorth AmericaUnited KingdomManufacturer differencesLocation and designationTheatre lightingNorth American distribution boards are generally housed in sheet metal enclosures, with the circuit breakers positioned in two columns operable from the front. Some panelboards are provided with a door covering the breaker switch handles, but all are constructed with a dead front; that is to say the front of the enclosure (whether it has a door or not) prevents the operator of the circuit breakers from contacting live electrical parts within. Busbars carry the current from incoming line (hot) conductors to the breakers...

DefinitionNec Article 210Types of Branch CircuitsMultiwire Branch CircuitsTypical Low-Voltage System ArrangementsConductor IdentificationAbout Branch CircuitsAccording to NEC Article 100, branch circuits are the conductors between the final overcurrent device protecting the circuit and the outlet. See more on eepower

ol#b\_results li.b\_ad,ol#b\_topw.b\_results\_eml li.b\_ad,ol#b\_topw

li.b\_ad{background-color:transparent;border-right:0;border-bottom:1px solid #ebeb; margin-bottom:1px;padding-right:0;padding-bottom:5px}ol#b\_results

li.b\_adBottom,ol#b\_topw.b\_results\_eml li.b\_adBottom{border-top:1px solid #ebeb;border-bottom:0;padding-bottom:0}ol#b\_context li.b\_ad,ol#b\_rrat\_cont

li.b\_ad{background-color:transparent}.sb\_add cite{text-transform:lowercase}#b\_results .b\_ad .sb\_adTA .b\_caption,#b\_topw.b\_results\_eml .b\_ad .sb\_adTA .b\_caption,#b\_results .b\_ad .sb\_adTA .b\_vlist2col li,#b\_topw.b\_results\_eml .b\_ad .sb\_adTA .b\_vlist2col li,#b\_results .b\_ad .sb\_adTA .b\_factrow,#b\_topw.b\_results\_eml .b\_ad .sb\_adTA .b\_factrow,#b\_results .b\_ad .sb\_adTA .b\_bcfactrow,#b\_topw.b\_results\_eml .b\_ad .sb\_adTA .b\_bcfactrow,#b\_topw .b\_ad .sb\_adTA

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```
.b_caption,#b_topw .b_ad .sb_adTA .b_vlist2col li,#b_topw .b_ad .sb_adTA .b_factrow,#b_topw .b_ad
.sb_adTA .b_bcfactrow{padding-bottom:var(--smtc-gap-between-content-xx-small)}#b_results .b_ad
.sb_adTA .b_vlist2col,#b_topw.b_results_eml .b_ad .sb_adTA .b_vlist2col,#b_results .b_ad .sb_adTA
.b_factrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_factrow,#b_results .b_ad .sb_adTA
.b_bcfactrow,#b_topw.b_results_eml .b_ad .sb_adTA .b_bcfactrow,#b_results .b_ad
.sb_adig,#b_topw.b_results_eml .b_ad .sb_adig,#b_topw .b_ad .sb_adTA .b_vlist2col,#b_topw .b_ad
.sb_adTA .b_factrow,#b_topw .b_ad .sb_adTA .b_bcfactrow,#b_topw .b_ad
.sb_adig{margin-top:0}#b_results .b_ad h3.b_adlabel,#b_topw.b_results_eml .b_ad h3.b_adlabel,#b_topw
.b_ad h3.b_adlabel{margin-bottom:var(--smtc-gap-between-content-xx-small)}.b_ad
.pa_mlo~.sb_adt{margin-bottom:-6px}.b_ad_description{font:var(--bing-smtc-text-global-body3);color:var(--
bing-ads-smtc-desktop-foreground-snippet-default)}#b_content #b_results
li.b_ad.b_adMiddle{margin-top:0;margin-bottom:16px}.b_ad
.b_floatR_img{padding-left:var(--mai-smtc-padding-card-nested-default)}#b_results .sb_add h2: hover
a,#b_topw.b_results_eml .sb_add h2: hover a{text-decoration:underline}#b_results .sb_add
h2: hover,#b_topw.b_results_eml .sb_add h2: hover{cursor:pointer}.b_ad
li.b_adLastChild{margin-bottom:0}#b_results>li.b_ad{background-color:#fcfaf9}
#b_topw.b_results_eml>li.b_ad{background-color:#fcfaf9} #b_context>li.b_ad{background-color:#fcfaf9}
.b_dark #b_results>li.b_ad{background-color:inherit} .b_dark
#b_topw.b_results_eml>li.b_ad{background-color:inherit}.pa_item .pa_img.white_bg,.pa_hover
.pa_hover_img.white_bg{background-color:#f5f5f5}@media(forced-colors:none){.pa_item .pa_img.white_bg
img,.pa_hover .pa_hover_img.white_bg img{mix-blend-mode:multiply}}.pa_carousel
.b_slideexp{margin-bottom:0}.pa_carousel .b_slideexp
.btn{z-index:8}.pa_carousel_mlo{padding-bottom:var(--smtc-gap-between-content-xx-small)}.b_adBottom
.pa_carousel_mlo{margin:var(--mai-smtc-padding-card-default) 0 0 0!important}.narrpole
.pa_carousel_ml{padding-right:20px}.pa_carousel_mlo.expanded
.pa_carousel_ml{padding-right:var(--smtc-gap-between-content-xx-large)}.pa_carousel_ml
.slide{border-collapse:separate}.pa_carousel_ml .slide.anim{visibility:hidden;animation:slideInFromLeft .05s
cubic-bezier(.3,.5,.1,1) .3s 1 normal forwards}@-webkit-keyframes
slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translat
eX(0)}}@keyframes
slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translat
eX(0)}}.pa_carousel_ml .slide:focus-visible{text-decoration:underline}#b_content .pa_carousel_mlo
.b_slidesContainer{width:100%}.b_poleContent:has(.pa_carousel_mlo){width:auto}li
.pa_mlo{padding-bottom:0}#b_content ol#b_results li.b_ad,#b_content ol#b_topw.b_results_eml
li.b_ad{border-bottom:0}.b_ad
.b_adPATitleBlock{padding-left:0}.b_adPATitle{text-overflow:ellipsis;overflow:hidden;white-space:nowrap;
padding-right:var(--smtc-gap-between-content-medium);height:26px;font:var(--bing-smtc-text-global-subtitle
1-strong);color:var(--smtc-foreground-content-neutral-primary)!important;padding-bottom:var(--smtc-padding
-ctrl-sm-text-bottom)}.b_adPATitleBlock{padding-bottom:var(--smtc-gap-between-content-small)}.b_adPAT
itleBlock
.b_floatR{margin-left:var(--mai-smtc-padding-card-default)}.b_adPATitle
a:focus-visible{margin-left:var(--smtc-padding-ctrl-text-side);text-decoration:underline}.b_adPATitle
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a { font: var(--bing-smtc-text-global-subtitle 1-strong)!important; color: var(--smtc-foreground-content-neutral-primary)!important; vertical-align: text-bottom } .pa_carousel_ml
.b_adPATitleBlock { padding-left: var(--mai-smtc-padding-card-default) } .b_adPATitle_chevron { display: inline-flex; padding: var(--smtc-gap-inside-ctrl-to-secondary-icon) } .b_adPATitleBlock
acf-badge { display: inline-flex!important } acf-badge { display: flex; align-items: center; inline-size: fit-content; max-inline-size: 100%; gap: var(--smtc-ctrl-badge-gap); padding-block-start: var(--smtc-ctrl-badge-sm-text-padding-top); padding-block-end: var(--smtc-ctrl-badge-sm-text-padding-bottom) } acf-badge, acf-badge::before, acf-badge::after, acf-badge
*::after { box-sizing: border-box; margin: 0; padding: 0 } acf-badge, acf-badge
* { display: none } acf-badge[data-visually-hidden], acf-badge
*[data-visually-hidden] { block-size: 1px; inline-size: 1px; margin: unset; padding: unset; border: 0; clip: rect(0 0 0 0); clip-path: inset(50%); overflow: clip; position: absolute; white-space: nowrap } acf-badge>* { min-inline-size: 0; flex-shrink: 0; flex-grow: 0 } acf-badge
span { flex-shrink: 1; white-space: nowrap; text-overflow: ellipsis; overflow: clip; max-block-size: calc(1*1lh) } acf-badge[data-fill="Tint"] { background-color: var(--smtc-status-informative-tint-background) } .acf-badge__favicon { border-radius: var(--mai-smtc-corner-favicon) } @media(forced-colors: active) { acf-badge { border: 1px solid } } acf-badge[data-size="AdSlugSize"] { border: 1px solid var(--bing-ads-smtc-ad-slug-stroke); border-radius: var(--bing-ads-smtc-ad-slug-corner); margin-inline-end: var(--smtc-gap-between-content-xxx-small); padding-inline: var(--smtc-padding-ctrl-text-side) } acf-badge[data-size="AdSlugSize"][data-weight="Default"] { font: var(--bing-smtc-text-global-caption2); line-height: var(--bing-ads-smtc-ad-slug-line-height) } acf-badge[data-size="AdSlugSize"][data-weight="Heavy"] { font: var(--bing-smtc-text-global-caption2-strong); line-height: var(--bing-ads-smtc-ad-slug-line-height) } acf-badge[data-style="AdSlug"] { color: var(--bing-ads-smtc-desktop-foreground-ad-slug-default) } acf-badge[data-style="AdSlug"][data-fill="AdSlugWhite"] { background-color: var(--smtc-background-web-page-primary) } acf-badge[data-style="AdSlug"][data-fill="AdSlugTransparent"] { background-color: transparent } .b_adChoice { position: relative; width: 12px; height: 12px; text-indent: 0; overflow: hidden; direction: ltr; transform: none; float: right } .b_adChoiceInline { display: inline-block } .b_adChoice::after { transform-origin: -320px 0; transform: scale(.5); position: relative; display: inline-block } .b_adSlugRow
.b_adChoice { float: none; vertical-align: -1px; display: inline-block } .pa_sbo+a
.b_adChoice { margin-top: 8px } .b_adPATitleBlock bubble_lite bubble_item, .b_adSlugRow bubble_lite bubble_item, .b_spa_adblock bubble_lite bubble_item, .b_magazine bubble_lite bubble_item, .ra_car_container bubble_lite bubble_item, .b_adinfo { display: inline-block!important } .b_adinfo { cursor: pointer; vertical-align: middle; line-height: 0 } @media(forced-colors: active) { .b_adChoice { filter: invert(1) } } .b_adChoice::after { content: url(/rp/EX_mgILPdYtFnI-37m1pZn5YKII.png) } .emb_ppa .listad { position: relative } .emb_ppa .b_adinfo bubble_item { height: 12px } .emb_ppa lcard .lc_content .b_factrow
.b_slgw { position: absolute; top: 6px; left: 8px; display: flex; align-items: center; border: 1px solid #ecec; border-radius: 6px; background-color: #fff; justify-content: center; height: 20px; width: 71px } div.b_adSlug, lcard .lc_content .b_factrow div.b_embPPASlug.b_adSlug, #lMapContainer .b_aswta .vertcard .lc_content div.b_factrow div.b_adSlug, div.gs_VA_slgw .b_adSlug.b_opttxt.b_divdef, .genserp_PA_container .genserp_PA_title div.genserp_PA_adslug

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span.genserp_adSlug,.gs_embedded_label_container,.embedded_msan_ad_slug{border:0;margin-right:0}.b_a
cf_crsl .slide.b_crslitm>*:last-child,.b_acf_crsl .b_slideexp,#b_topw .b_wpt_container
.b_slidesContainer:has(.b_acf_crsl) .b_slidesContainer{margin-bottom:unset}#b_topw
.b_wpt_container:has(.b_acf_crsl) .b_viewport{padding:unset}#b_topw .b_wpt_container
.b_wpt_bl:has(.b_acf_crsl){overflow:visible}.b_acf_crsl .b_slidesContainer
.slide.b_crslitm{overflow:unset}.b_acf_crsl .btn.next .bg,.b_acf_crsl .btn.prev
.bg{background:unset}.b_acf_crsl.hovexp .b_viewport,.b_acf_crsl.hovexp .b_slidebar,#b_pole #tob_container
.b_acf_crsl.hovexp .b_viewport{height:unset!important}#b_topw .b_wpt_container .b_acf_crsl
.btn.bld.next,#b_topw .b_wpt_container .b_acf_crsl .btn.bld.prev,.b_acf_crsl .btn.next,.b_acf_crsl
.btn.prev{z-index:5}.b_acf_crsl.b_fadebg .btn.next
.bg{background:linear-gradient(90deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)} .b_acf_crsl.b_fadebg .btn.prev
.bg{background:linear-gradient(270deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)} .b_acf_crsl.b_fadebg.b_fadebg_theme
.btn.next .bg{background:linear-gradient(90deg,var(--bing-smtc-ctrl-background-fade-stop-0)
0,var(--bing-smtc-background-card-on-primary-alt-rest) 20px)} .b_acf_crsl.b_fadebg.b_fadebg_theme
.btn.prev .bg{background:linear-gradient(270deg,var(--bing-smtc-ctrl-background-fade-stop-0)
0,var(--bing-smtc-background-card-on-primary-alt-rest) 20px)} .b_dark .b_acf_crsl .b_slidebar
.slide{background-color:unset}[dir="rtl"] .b_acf_crsl.b_fadebg .btn.next
.bg{background:linear-gradient(270deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)}[dir="rtl"] .b_acf_crsl.b_fadebg .btn.prev
.bg{background:linear-gradient(90deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)}[dir="rtl"]
.b_acf_crsl.b_fadebg.b_fadebg_theme .btn.next
.bg{background:linear-gradient(270deg,var(--bing-smtc-ctrl-background-fade-stop-0)
0,var(--bing-smtc-background-card-on-primary-alt-rest) 20px)}[dir="rtl"]
.b_acf_crsl.b_fadebg.b_fadebg_theme .btn.prev
.bg{background:linear-gradient(90deg,var(--bing-smtc-ctrl-background-fade-stop-0)
0,var(--bing-smtc-background-card-on-primary-alt-rest) 20px)} .b_acf_crsl.hovexp .leftmost .b_overlay
.b_viewport,.b_acf_crsl.hovexp .leftrightmost .b_overlay .b_viewport,.b_acf_crsl.hovexp .b_overlay
.b_viewport{padding-left:var(--smtc-gap-between-content-x-large)!important;margin-left:calc(var(--smtc-gap-
between-content-x-large)*-1)!important}.b_acf_crsl.hovexp .middle .b_overlay
.b_viewport,.b_acf_crsl.hovexp .rightmost .b_overlay
.b_viewport{padding-left:unset!important;margin-left:unset!important}.b_colg_4xs
.slide{margin-inline-end:var(--smtc-padding-ctrl-text-side)!important}.b_rowg_4xs
.slide>*{margin-bottom:var(--smtc-padding-ctrl-text-side)!important}.b_colg_3xs
.slide{margin-inline-end:var(--smtc-padding-ctrl-sm-text-top)!important}.b_rowg_3xs
.slide>*{margin-bottom:var(--smtc-padding-ctrl-sm-text-top)!important}.b_colg_2xs
.slide{margin-inline-end:var(--smtc-gap-between-content-xx-small)!important}.b_rowg_2xs
.slide>*{margin-bottom:var(--smtc-gap-between-content-xx-small)!important}.b_colg_xs
.slide{margin-inline-end:var(--smtc-gap-between-content-x-small)!important}.b_rowg_xs
```

```
.slide>{*margin-bottom:var(--smtc-gap-between-content-x-small)!important}.b_colg_s
.slide{margin-inline-end:var(--smtc-gap-between-content-small)!important}.b_rowg_s
.slide>{*margin-bottom:var(--smtc-gap-between-content-small)!important}.b_colg_m
.slide{margin-inline-end:var(--smtc-gap-between-content-medium)!important}.b_rowg_m
.slide>{*margin-bottom:var(--smtc-gap-between-content-medium)!important}.b_colg_l
.slide{margin-inline-end:var(--mai-smtc-padding-card-default)!important}.b_rowg_l
.slide>{*margin-bottom:var(--mai-smtc-padding-card-default)!important}.b_colg_xl
.slide{margin-inline-end:var(--smtc-gap-between-content-x-large)!important}.b_rowg_xl
.slide>{*margin-bottom:var(--smtc-gap-between-content-x-large)!important}.b_colg_2xl
.slide{margin-inline-end:var(--smtc-gap-between-content-xx-large)!important}.b_rowg_2xl
.slide>{*margin-bottom:var(--smtc-gap-between-content-xx-large)!important}.b_colg_3xl
.slide{margin-inline-end:var(--smtc-padding-content-xx-large)!important}.b_rowg_3xl
.slide>{*margin-bottom:var(--smtc-padding-content-xx-large)!important}.b_colg_4xl
.slide{margin-inline-end:var(--smtc-padding-content-xxx-large)!important}.b_rowg_4xl
.slide>{*margin-bottom:var(--smtc-padding-content-xxx-large)!important}.b_acf_crsl
.b_acf_card:focus-visible,.b_acf_crsl .b_acf_card.b_acf_kbd_focus{outline:2px solid
var(--smtc-ctrl-focus-outer-stroke);outline-offset:-3px;border-radius:var(--mai-smtc-corner-card-default);z-ind
ex:1}.b_acf_card{box-sizing:border-box;border-radius:var(--mai-smtc-corner-card-default);-webkit-user-selec
t:none;user-select:none;position:relative;width:100%;height:100%;position:relative}.b_acf_card.b_acf_bckgn
d{background:var(--bing-smtc-background-card-on-primary-alt-rest)}.b_acf_card_link{border-radius:var(--m
ai-smtc-corner-card-default);outline-offset:-1px;position:absolute;width:100%;height:100%}.b_acf_card_link:
hover{text-decoration:unset}.acf_col1_4{width:140px}.acf_col1_6{width:160px}@media(forced-colors:activ
e){.b_acf_card_link{background-color:unset}.b_acf_card
.acf_t_c_title{color:LinkText!important}}.acf_col1{width:88px}.acf_col2{width:200px}.acf_col3{width:312
px}.acf_col4{width:424px}.acf_col5{width:536px}.acf_col6{width:648px}.acf_col7{width:760px}.acf_col8
{width:872px}.acf_col9{width:984px}.acf_col10{width:1096px}.acf_col11{width:1208px}.acf_col12{width:
1320px}.acf_row1{height:88px}.acf_row2{height:200px}.acf_row3{height:312px}.acf_row4{height:424px}.
acf_row5{height:536px}.acf_row6{height:648px}.acf_row7{height:760px}.acf_row8{height:872px}.acf_row
9{height:984px}.acf_row10{height:1096px}.acf_row11{height:1208px}.acf_row12{height:1320px}.b_overla
y .acfdefaultchev.btn.next{right:0!important}.b_overlay .acfdefaultchev.btn.prev{left:0!important}.b_overlay
.acfdefaultchev.btn:hover .bg{opacity:unset;filter:unset}.b_overlay .acfdefaultchev.btn.disabled,.b_overlay
.acfdefaultchev.btn.hidden{display:none}.b_overlay .acfdefaultchev.btn{width:48px}.b_overlay
.acfdefaultchev.btn .bg{opacity:unset}.b_overlay .acfdefaultchev.btn.prev .cr{left:0}.b_overlay
.acfdefaultchev.btn.next .cr{right:0}.acfdefaultchev
.cr{display:flex;justify-content:center;align-items:center;flex:1 0 0
0;align-self:stretch;width:36px;height:48px;position:absolute;margin:unset;opacity:unset;transition:unset;bord
er-radius:var(--smtc-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:var(-
-smtc-shadows-floating-action-button-rest);fill:var(--smtc-foreground-content-neutral-secondary)}.acfdefaultc
hev .cr:hover{background:var(--smtc-ctrl-fab-background-hover)}.acfdefaultchev
.cr:active{background:var(--smtc-ctrl-fab-background-pressed)}.b_ofchev .acfdefaultchev.btn.prev
.cr{left:-18px}.b_ofchev .acfdefaultchev.btn.next
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```
.cr{right:-18px}@media(forced-colors:active){.acfdefaultchev .cr{background:ButtonFace}.acfdefaultchev
.cr>svg{fill:ButtonText}.acfdefaultchev .cr: hover,.acfdefaultchev
.cr:has(:focus-visible){background:Highlight}}.b_nochevshadow .acfdefaultchev .cr,.b_nochevshadow
.acfdefaultchev .cr: hover,.b_nochevshadow .acfdefaultchev .cr:active,.b_nochevshadow .acfdefaultchev
.cr:focus{background:none!important;box-shadow:none!important}.slide.b_crslitm.b_sldfitcont{width:fit-cont
ent}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_title,#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption,#b_content .pa_carousel_mlo .pa_item.pa_vCard .b_finalText,#b_content
.pa_carousel .pa_item.pa_vCard .pa_title,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption,#b_content
.pa_carousel .pa_item.pa_vCard .b_finalText,#b_content .pa_grid .pa_item.pa_vCard .pa_title,#b_content
.pa_grid .pa_item.pa_vCard .pa_caption,#b_content .pa_grid .pa_item.pa_vCard .b_finalText{padding:0
var(--smtc-padding-ctrl-horizontal-default)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .cico,#b_content
.pa_carousel .pa_item.pa_vCard .cico,#b_content .pa_grid .pa_item.pa_vCard
.cico{margin-bottom:var(--smtc-gap-between-content-small)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_title,#b_content .pa_carousel .pa_item.pa_vCard .pa_title,#b_content .pa_grid
.pa_item.pa_vCard
.pa_title{font:var(--bing-smtc-text-global-body3);color:var(--smtc-ctrl-link-foreground-brand-rest)}#b_conten
t .pa_carousel_mlo .pa_item.pa_vCard .pa_caption,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption,#b_content .pa_grid .pa_item.pa_vCard
.pa_caption{margin-top:var(--smtc-gap-between-content-x-small);padding-bottom:var(--smtc-gap-between-co
ntent-x-small);font:var(--bing-smtc-text-global-caption1)!important}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption
.pa_price{margin-bottom:var(--smtc-gap-between-content-xx-small)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price .prc_clr_grn,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price .prc_clr_grn,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
.prc_clr_grn{color:var(--smtc-status-success-tint-foreground)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price strong,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price strong,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
strong{color:var(--smtc-foreground-content-neutral-primary)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price .original_price,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption .pa_price .original_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
.original_price{font:var(--bing-smtc-text-global-caption1);padding-left:var(--smtc-gap-between-content-x-sma
ll)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_installmentDesc,#b_content
.pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_caption .pa_shippingcost,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_installmentDesc,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_carousel
.pa_item.pa_vCard .pa_caption .pa_shippingcost,#b_content .pa_grid .pa_item.pa_vCard .pa_caption
.pa_installmentDesc,#b_content .pa_grid .pa_item.pa_vCard .pa_caption .pa_unitprice,#b_content .pa_grid
.pa_item.pa_vCard .pa_caption .vertical_converted_price,#b_content .pa_grid .pa_item.pa_vCard .pa_caption
```

# Main Distribution Box Branch Circuits

```
.pa_shippingcost{font:var(--bing-smtc-text-global-caption1);margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .b_attribution,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.b_attribution,#b_context .pa_grid .pa_item.pa_vCard .pa_caption
.b_attribution{margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-text-global-caption1)}#b_content
.pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_attribution cite,#b_content .pa_carousel
.pa_item.pa_vCard .pa_caption .b_attribution cite,#b_context .pa_grid .pa_item.pa_vCard .pa_caption
.b_attribution
cite{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);opacity:unset}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText,#b_context .pa_grid .pa_item.pa_vCard
.pa_caption
.b_secondaryText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rebateText,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rebateText,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rebateText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo
a,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo a,#b_context .pa_grid
.pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo
a{color:var(--smtc-ctrl-link-foreground-brand-rest)}#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_caption .b_secondaryText .pa_rating a,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.b_secondaryText .pa_rating a,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rating a{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo
.slide,#b_content .pa_carousel .slide,#b_context .pa_grid
.pa_item{border-radius:var(--mai-smtc-corner-card-default)!important;overflow:hidden}#b_pole
.pa_carousel_mlo{margin-right:0}#b_content .pa_carousel_mlo .pa_item.pa_vCard,#b_content .pa_carousel
.pa_item.pa_vCard{margin-bottom:0!important}#b_content .pa_carousel_mlo .pa_carousel
.slide{margin:var(--smtc-gap-between-content-xx-small) 0}#b_content .pa_carousel_mlo
.pa_carousel{margin:calc(-1*var(--smtc-gap-between-content-xx-small)) 0}#b_content .pa_carousel
.slide{margin:calc(var(--smtc-gap-between-content-xx-small) - var(--smtc-gap-between-content-xxx-small))
0}#b_results .pa_carousel_mlo .pa_carousel .b_slidebar .slide:first-child,#b_topw .pa_carousel_mlo
.pa_carousel .b_slidebar
.slide:first-child{margin-left:var(--smtc-gap-between-content-xxx-small)}.pa_item.pa_vCard{word-wrap:break-word;line-height:20px;overflow:hidden}.pa_item.pa_vCard p strong,.pa_item.pa_vCard .pa_price
strong{color:#111}.pa_item.pa_vCard .pa_deal{text-decoration:line-through}#b_content .pa_item.pa_vCard
.b_attribution{font-size:14px;padding-bottom:0;line-height:20px}#b_context .pa_item.pa_vCard
p,#b_rrat_cont .pa_item.pa_vCard p{line-height:20px}#b_content .pa_item.pa_vCard
.pa_title{line-height:20px;overflow:hidden}.pa_item.pa_vCard
.b_footnote{line-height:17px;padding-bottom:0}.pa_item.pa_vCard
```

# Main Distribution Box Branch Circuits

```
.pa_caption{padding-bottom:8px}.pa_item.pa_vCard .pa_caption,.pa_item.pa_vCard
.pa_title{padding-left:4px;padding-right:4px}.pa_item.pa_vCard
.b_finalText{position:absolute;width:100%;box-sizing:border-box;left:0;padding:0 4px 0
4px;bottom:8px}.pa_item.pa_vCard
.cico{display:block;padding-bottom:0;margin-bottom:8px;margin-left:auto;margin-right:auto;border-radius:0}
.pa_item.pa_vCard .pa_img{position:relative}.pa_item.pa_vCard .pa_price:hover,.pa_item.pa_vCard
.b_attribution:hover,.pa_item.pa_vCard .b_footnote:hover{cursor:pointer}.pa_carousel .slide{box-shadow:0 0
0 1px rgba(0,0,0,.1)!important}.pa_carousel .slide.see_more{box-shadow:0 0 0 0
rgba(0,0,0,0)!important}.pa_caption .pa_price:hover strong,.pa_hover .pa_hover_content .pa_price:hover
strong{text-decoration:underline;text-decoration-color:#111}.pa_caption .b_attribution:hover,.pa_hover
.pa_hover_content
.b_attribution:hover{text-decoration:underline}.pa_caption>.b_secondaryText:hover,.pa_hover
.pa_hover_content>.b_secondaryText:hover{color:#444}.b_ads1line{white-space:nowrap;overflow:hidden;text-
overflow:ellipsis;display:block}.pa_item .b_attribution cite,#b_context .pa_item .b_attribution
cite,.pa_hover .b_attribution cite,.pa_item .b_footnote .pa_url cite,.pa_item .b_attribution cite,#b_rrat_cont
.pa_item .b_attribution cite,.pa_hover .b_attribution cite,.pa_item .b_footnote .pa_url
cite{color:#111;opacity:.8}#bpage.b_drk .pa_item .b_footnote .pa_url
cite{color:#d2d0ce}.pa_item.pa_vCard{cursor:pointer}@supports(-webkit-line-clamp:2){.b_adsTrunTx{displ
ay:-webkit-box;overflow:hidden;-webkit-box-orient:vertical;white-space:normal;visibility:visible}.b_ellipsis{
display:none}.b_adsTrunTx
.b_hiddenTx{display:inline}.b_hiddenTx{display:none}.pa_rating{white-space:nowrap;text-overflow:ellipsi
s;min-height:17px}#b_results .pa_item .pa_ratingsmaller>span,#b_topw.b_results_eml .pa_item
.pa_ratingsmaller>span{transform:translateZ(0)}#b_results .pa_item .pa_ratingsmaller .sw_st,#b_results
.pa_item .pa_ratingsmaller .sw_sth,#b_results .pa_item .pa_ratingsmaller .sw_ste,#b_topw.b_results_eml
.pa_item .pa_ratingsmaller .sw_st,#b_topw.b_results_eml .pa_item .pa_ratingsmaller
.sw_sth,#b_topw.b_results_eml .pa_item .pa_ratingsmaller .sw_ste{transform:scale(calc(10/12));margin:-1px
-2px -1px -1px}.pa_hover .pa_rating
.rms_img{display:inline-block;margin-bottom:0;margin-left:0;margin-right:0}#b_content .b_ad
.b_secondaryText .b_colorBlend,#b_results>.b_ad .b_colorBlend,#b_topw.b_results_eml>.b_ad
.b_colorBlend,#b_results>.b_ad .b_accentColor,#b_context>.b_ad .b_accentColor,#b_results>.b_ad
.b_accentColor,#b_rrat_cont>.b_ad .b_accentColor,#b_topw.b_results_eml>.b_ad
.b_accentColor,#b_context>.b_ad .b_accentColor,#b_topw.b_results_eml>.b_ad
.b_accentColor,#b_rrat_cont>.b_ad .b_accentColor,#b_context>.b_ad .b_colorBlend,#b_rrat_cont>.b_ad
.b_colorBlend,#b_dynRail>.b_ad .b_colorBlend,.pa_hover .b_secondaryText .b_colorBlend,#b_pole
.pa_carousel .b_secondaryText
.b_colorBlend{color:var(--bing-ads-smtc-desktop-foreground-snippet-default)}.b_ad .csrc,.pa_item
.csrc{padding-right:0}.csrc .sw_rtcOLOR{color:#d32f2f;font-weight:bold;font-family:"Segoe
UI",Arial,Helvetica,Sans-Serif}.b_dark .csrc .sw_rtcOLOR{color:#f66}.csrc .sw_rtright{padding-left:5px}.csrc
.sw_rtleft{padding-right:5px}.csrc .nobg{background-image:none}.csrc
.rms_st{padding-right:1px;vertical-align:inherit;max-height:14px;max-width:14px}.pa_hover{background-col
or:var(--smtc-background-web-page-primary);box-shadow:none;position:absolute;opacity:0;visibility:hidden;
```

# Main Distribution Box Branch Circuits

```

word-wrap:break-word;cursor:pointer;overflow:hidden;z-index:4;pointer-events:none}.pa_hover
.pa_hover_content{padding-bottom:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_hover_title,.pa_hover .pa_price,.pa_hover .b_attribution,.pa_hover .b_secondaryText,.pa_hover
.pa_additionTx,.pa_hover>div>.b_ads1line,.pa_hover .b_footnote,.pa_hover
.pa_hover_content>.pa_locInv{padding-left:var(--smtc-padding-ctrl-horizontal-default);padding-right:var(--s
mtc-padding-ctrl-horizontal-default)}.pa_hover .pa_hover_img{position:relative}.pa_hover .pa_hover_img
img{display:block;margin-left:auto;margin-right:auto}.pa_hover
.pa_hover_title{font:var(--bing-smtc-text-global-body3)!important;color:var(--smtc-ctrl-link-foreground-bran
d-rest);margin-bottom:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_hover_title:hover{text-decoration:underline}.pa_hover
.pa_price{margin-bottom:var(--smtc-gap-between-content-xx-small)}.pa_hover .pa_price
.prc_clr_grn{color:var(--smtc-status-success-tint-foreground)}.pa_hover .pa_price
strong{color:var(--smtc-foreground-content-neutral-primary);font:var(--bing-smtc-text-global-caption1-strong
)}.pa_hover .pa_price
.original_price{font:var(--bing-smtc-text-global-caption1);padding-left:var(--smtc-gap-between-content-x-sma
ll)}.pa_hover .pa_installmentDesc,.pa_hover .pa_unitprice,.pa_hover .vertical_converted_price,.pa_hover
.pa_shippingcost{font:var(--bing-smtc-text-global-caption1);margin-bottom:var(--smtc-gap-between-content-
xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-alt);padding-bottom:0}.pa_hover
.b_attribution{margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground-co
ntent-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-text-global-caption1)}.pa_hover
.b_attribution
cite{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-al
t);opacity:unset}.pa_hover .pa_bcSeparator{margin:var(--smtc-gap-between-content-xx-small)
0;border-top:1px solid #ecec}.pa_hover
.b_secondaryText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutra
l-secondary-alt)}.pa_hover .b_secondaryText
.pa_rebateText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-s
econdary-alt)}.pa_hover .b_secondaryText .pa_promo
a{color:var(--smtc-ctrl-link-foreground-brand-rest)}.pa_hover .b_secondaryText .pa_rating
a{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}.pa_hover .b_secondaryText
.b_colorBlend{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)!important}.pa_hover
.pa_additionTx,.pa_hover
.pa_locInv{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secon
dary-alt)}a.pa_hover_adLink:hover{text-decoration:none}.pa_hover:has(.pa_hover_content.pa_hcgp){border-
radius:var(--mai-smtc-corner-card-default)}.pa_hover.ad_scpah.pa_animation{background-color:var(--smtc-b
ackground-card-on-primary-default-hover);box-shadow:var(--bing-smtc-shadows-card-hover-3);pointer-event
s:auto}.pa_item.pa_vCard>a:hover{text-decoration:none}.pa_hover:not(:has(.b_pa_hov_indicator_c))
.pa_hover_img
img{margin-bottom:var(--smtc-gap-between-content-small)}.pa_hover.ad_scpah.pa_animation{transition:heig
ht var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default),background-color
var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default),box-shadow

```

# Main Distribution Box Branch Circuits

```

var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default)}.b_acf_crsl .carousel_seemore .rtl
.b_seemore_chev                                svg{transform:scaleX(-1)}.b_acf_crsl
.carousel_seemore{display:flex;align-items:center;justify-content:center;width:64px}.b_acf_crsl
.carousel_seemore .b_moreLink{display:flex;padding:var(--bing-smtc-padding-ctrl-icon-only-text-top)
var(--bing-smtc-padding-ctrl-text-side-large)                var(--bing-smtc-padding-ctrl-icon-only-text-bottom)
var(--bing-smtc-padding-ctrl-text-side-large);flex-direction:column;align-items:center;gap:var(--smtc-gap-insi
de-ctrl-to-secondary-icon);text-decoration:none}.b_acf_crsl .carousel_seemore .b_moreLink
.b_seemore_chev{display:flex;width:40px;height:40px;justify-content:center;align-items:center}.b_acf_crsl
.carousel_seemore .b_moreLink .b_seemore_chev
svg{fill:var(--smtc-foreground-ctrl-on-transparent-rest);font-weight:bold;transition:transform
var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default)}.b_acf_crsl .carousel_seemore
.b_moreLink
.b_call_txt{color:var(--smtc-foreground-ctrl-on-transparent-rest);font:var(--bing-smtc-text-global-caption1-str
ong)}.b_acf_crsl .carousel_seemore .b_moreLink:hover
.b_seemore_chev{border-radius:var(--smtc-corner-ctrl-hover);background:var(--bing-smtc-background-ctrl-gh
ost-hover)}.b_acf_crsl .carousel_seemore .b_moreLink:hover .b_seemore_chev
svg{width:20px;height:20px}.b_acf_crsl .carousel_seemore .b_moreLink:active
.b_seemore_chev{border-radius:var(--smtc-corner-ctrl-pressed);background:var(--bing-smtc-background-ctrl-
ghost-pressed)}.b_acf_crsl .carousel_seemore .b_moreLink:active .b_seemore_chev
svg{width:12px;height:12px}#slideexp0_154971 .slide:last-child { margin-inline-end: 0; }
#slideexp0_154971 .slide>*:last-child { margin-bottom: unset !important; } .b_acf_crsl #slideexp0_154971c
.b_slidebar .slide { box-shadow: unset; -webkit-box-shadow: unset; } .b_acf_crsl.hovexp
#slideexp0_154971c.b_slideexp .b_overlay .b_slidesContainer { overflow: visible !important; }
.b_acf_crsl.hovexp #slideexp0_154971c.b_slideexp .b_overlay .b_viewport, .b_acf_crsl.hovexp
#slideexp0_154971c.b_slideexp .b_viewport { padding-top: 12px !important; margin-top: -12px !important;
padding-bottom: 12px !important; margin-bottom: -12px !important; } .b_acf_crsl.hovexp
#slideexp0_154971c.b_slideexp .b_overlay .b_viewport { padding-bottom: 24px !important; margin-bottom:
-24px !important; }SponsoredSee Main Distribution Box Branch CircuitsSIEMENS P1224L3125CU
...125-Amp 12-Space 24-Circuit 3-Phase Main Lug Load Center$171.65 165SIEMENS P1224L3125CU
125-Amp 12...-Space 24-Circuit 3-Phase Main Lug Load Center

```

A distribution box is used to receive electrical power from a main supply and distribute it to multiple branch circuits in a safe and controlled way. It helps protect circuits, organize electrical ...

A feeder is a conductor that originates at the main distribution or main disconnect device and terminates at another distribution center, panelboard, or load center.

In Canadian service entrance panelboards the main switch or circuit breaker is located in a service box, a section of the enclosure separated from the rest of the panelboard, so that when the main switch or ...

A panelboard is a component of an electrical distribution system which divides an electrical power feed into

# Main Distribution Box Branch Circuits

branch circuits, while providing a protective circuit breaker or fuse for each circuit, in a common ...

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