

# UL 98 Non-Fusible

## Disconnect Switches

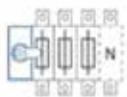
### DISCONNECT SWITCHES



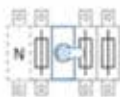
Mersen's non-fusible disconnect switches are listed to UL 98 and bear the CE mark as conformance to IEC 60947-3. They are "service entrance" devices that are capable of fully rated load-break and load-make. All switches over 100A have windows to provide visual indication of the contact status. Engineered to have the smallest footprint, these switches also employ a modular design that enables the handle to be placed amongst the poles or at the ends.

A wide range of ergonomic handles and accessories is available to accommodate multiple applications.

### CONFIGURATIONS:



Gearbox on the side



Gearbox in the middle

| Catalog number designation |                        |                     |                                            |                                             |           |                                                 |
|----------------------------|------------------------|---------------------|--------------------------------------------|---------------------------------------------|-----------|-------------------------------------------------|
| <b>M</b><br>Switch         | <b>200</b><br>Ampacity | <b>U</b><br>Type    | <b>3</b><br>Number of Poles/Left of handle | <b>0</b><br>Number of Poles/Right of handle | Revision  | Special Configuration                           |
| M = Mersen AC Switch       | 16-1200                | U = non-fused UL 98 | 1-3                                        | Blank = < 200A non-fused, 0, 2, 3           | Blank = 0 | F = Flange-mount Actuation<br>DM = Door mounted |

\*Not all configurations are available.

### RATINGS (UL):

- **Volts:** 600VAC
- **Amps:** 30A, 60A, 100A, 200A, 400A, 600A, 800A, 1200A
- **Short-Circuit Current Rating (SCCR):** Up to 200kA with fuses. Suitable as motor disconnect.

### FEATURES/ BENEFITS:

- Service entrance rated
- Front operation
- Most compact size
- Internally mounted auxiliary contacts
- Flange mounting accessories
- Flexible mounting
- Adjustable shaft depth

### APPROVALS:

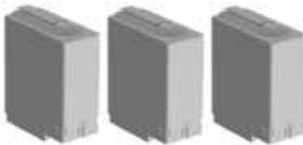
- All UL switches meet the requirements of UL and CSA
- UL listed guide WHTY, File E191605 for UL 98 (ratings from 30 A to 1200 A)
- IEC 60947-3



\*Not all configurations are available

| UL 98 DISCONNECT SWITCHES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                 |                                                                                                                           |                                          |                                                                                                    |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|----------|
|  <p>M100U3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                 |  <p>M200U30 with HD250 Direct Handle</p> |                                          |  <p>M200U30</p> |          |
| Switch Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ampere Rating                                                                                                                                   | 30                                                                                                                        | 60                                       | 100                                                                                                | 200      |
| Base Part #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 | M30U3                                                                                                                     | M60U3                                    | M100U3                                                                                             | M200U    |
| 3-pole configurations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 |                                                                                                                           |                                          |                                                                                                    | 12, 30   |
| For Flange-mount Actuation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 | M30U3F                                                                                                                    | M60U3F                                   | M100U3F                                                                                            |          |
| For Door-mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                 | M30U3DM                                                                                                                   | M60U3DM                                  | M100U3DM                                                                                           |          |
| Handles and Shafts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Direct Front Operation Locking Handle                                                                                                           |                                                                                                                           |                                          |                                                                                                    |          |
|  <p>HSBX</p>  <p>HD250</p>  <p>HB65</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 | HD125                                                                                                                     | HD125                                    | HD125                                                                                              | HD250    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | External Front Operation                                                                                                                        |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Selector Style                                                                                                                                  |                                                                                                                           | HSBX, HSRX                               |                                                                                                    | N/A      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Shaft—SAxxx (xxx = length in mm)                                                                                                                |                                                                                                                           | SA85, SA105, SA120, SA130, SA180, SA250  |                                                                                                    | N/A      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Door mounted version (no shaft required)                                                                                                        |                                                                                                                           | HSBWDM, HSRWDM                           |                                                                                                    | N/A      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pistol Style NEMA Type 1, 3R, 12                                                                                                                |                                                                                                                           | HB45, HR45, HB65, HR65, HB80, HR80       |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NEMA Type 4, 4X                                                                                                                                 |                                                                                                                           | HB45X, HR45X, HB65X, HR65X, HB80X, HR80X |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NEMA 4X Stainless Steel                                                                                                                         |                                                                                                                           | HM65X                                    |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Shaft—SAxxx (xxx = length in mm)                                                                                                                |                                                                                                                           | SPA130, SPA210, SPA290, SPA360, SPA430   |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Alignment Ring                                                                                                                                  |                                                                                                                           | See next page                            |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B=Black, R=Red                                                                                                                                  |                                                                                                                           |                                          |                                                                                                    |          |
| Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fourth Poles                                                                                                                                    |                                                                                                                           |                                          |                                                                                                    |          |
|  <p>4P125</p>  <p>4P250</p>  <p>TS250-13</p>  <p>OA1G10</p>  <p>OA2G11</p>  <p>OA1G01</p>  <p>OEA28</p> | Base-mounted switch Fourth Poles                                                                                                                | 4P60                                                                                                                      | 4P60                                     | 4P125                                                                                              | 4P250    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Door-mounted switch Fourth Poles                                                                                                                | 4P60DM                                                                                                                    | 4P60DM                                   | 4P125DM                                                                                            |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Neutral Poles                                                                                                                                   |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Base-mounted switch Neutral Poles                                                                                                               | NP60                                                                                                                      | NP60                                     | NP125                                                                                              |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Door-mounted switch Neutral Poles                                                                                                               | NP125DM                                                                                                                   | NP125DM                                  | NP125DM                                                                                            |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Terminal Shrouds                                                                                                                                |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3-pole                                                                                                                                          | TS125-3                                                                                                                   | TS125-3                                  | TS125-3                                                                                            | TS250-13 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4-pole                                                                                                                                          | TS125-1                                                                                                                   | TS125-1                                  | TS125-1                                                                                            | TS250-14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Shrouds with "-3" suffix are single shrouds that cover all three terminals. Shrouds with "-13" or "-14" are single pole shrouds with 3 or 4 per |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Auxiliary Contacts*                                                                                                                             |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Normally Closed                                                                                                                                 | OA1G01                                                                                                                    | OA1G01                                   | OA1G01                                                                                             | OA3G01   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Normally Open                                                                                                                                   | OA1G10                                                                                                                    | OA1G10                                   | OA1G10                                                                                             | OA1G10   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N0+NC                                                                                                                                           | OA2G11                                                                                                                    | OA2G11                                   | OA2G11                                                                                             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Module for 8 aux. contacts                                                                                                                      | N/A                                                                                                                       | N/A                                      | N/A                                                                                                | OEA28    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Rated 2A max continuous @690VAC                                                                                                                |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Flange Operation                                                                                                                                |                                                                                                                           |                                          |                                                                                                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Flange bracket assembly                                                                                                                         | Incl with M30U3F**                                                                                                        | Incl with M60U3F**                       | Incl with M100U3F**                                                                                | FOM4     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rod Flange handle NEMA 12                                                                                                                       | FHR12                                                                                                                     | FHR12                                    | FHR12                                                                                              | NA       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rod Flange handle NEMA 4X                                                                                                                       | FHR4X                                                                                                                     | FHR4X                                    | FHR4X                                                                                              | NA       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rod, 16 inch                                                                                                                                    | RODNF16                                                                                                                   | RODNF16                                  | RODNF16                                                                                            | NA       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rod, 24 inch                                                                                                                                    | RODNF24                                                                                                                   | RODNF24                                  | RODNF24                                                                                            | NA       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cable Flange Handle, NEMA 12                                                                                                                    | NA                                                                                                                        | NA                                       | NA                                                                                                 | FHC12    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cable Flange Handle, NEMA 4X                                                                                                                    | NA                                                                                                                        | NA                                       | NA                                                                                                 | FHC4X    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cable for FHC handles                                                                                                                           | NA                                                                                                                        | NA                                       | NA                                                                                                 | CABLE36* |

Other cable lengths available: 48", 60", 72", 84", 96", 108". For example, CABLE108. \*\*These switches have not been tested to conform to UL standards

| UL LISTED FRONT OPERATED                                                                                                                                                                                                                                                                                          |                                                                                                                                                 |                                                                                   |                      |                                                                                     |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-----------------------|
|                                                                                                                                                                                                                                  |                                                                                                                                                 |  |                      |  |                       |
| M400U30                                                                                                                                                                                                                                                                                                           |                                                                                                                                                 | M600U30                                                                           |                      | M200U30                                                                             |                       |
| Switch body                                                                                                                                                                                                                                                                                                       | Ampere Rating                                                                                                                                   | 400                                                                               | 600                  | 800                                                                                 | 1200                  |
|                                                                                                                                                                                                                                                                                                                   | Base Part #                                                                                                                                     | M400U                                                                             | M600U                | M800U                                                                               | M1200U                |
|                                                                                                                                                                                                                                                                                                                   | 3-pole configurations                                                                                                                           | 30, 12                                                                            | 30, 12               | 30, 12                                                                              | 30                    |
| Handles and Shafts                                                                                                                                                                                                                                                                                                | Direct Front Operation Locking Handle                                                                                                           |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                  |                                                                                                                                                 | HD400                                                                             | HD800                | HD800                                                                               | HD1000                |
|                                                                                                                                                                                                                                                                                                                   | External Front Operation                                                                                                                        |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | Pistol Style NEMA Type 1, 3R, 12                                                                                                                | HB125, HB145, HB274                                                               |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | NEMA Type 4, 4X                                                                                                                                 | HB125X, HB145X, HB274X                                                            |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | NEMA 4X Stainless Steel                                                                                                                         | HM125X, HM175X                                                                    |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | Shaft— Sxxxx (xxx = length in mm)                                                                                                               | SFB185, SFB280, SFB325, SFB395, SFB535                                            |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | Alignment Ring (optional, for pistol-style handle)                                                                                              | ALRX10                                                                            |                      |                                                                                     |                       |
| B=Black. Substitute 'R' for 'B' if a red handle is desired. Ex. HR125                                                                                                                                                                                                                                             |                                                                                                                                                 |                                                                                   |                      |                                                                                     |                       |
| Accessories                                                                                                                                                                                                                                                                                                       | Fourth Poles                                                                                                                                    |                                                                                   |                      |                                                                                     |                       |
| <br>4P400<br><br>TS250-13<br><br>OA1G10   OA3G01   OEA28 |                                                                                                                                                 | 4P400                                                                             | 4P800                | 4P800                                                                               | 4P1250                |
|                                                                                                                                                                                                                                                                                                                   | Terminal Lugs                                                                                                                                   |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | 6 per package                                                                                                                                   | LUG400 #2 - 600MCM                                                                | LUG800 2 x #2 600MCM | LUG800 2 x #2 600MCM                                                                | LUG1200 4 x #2 600MCM |
|                                                                                                                                                                                                                                                                                                                   | Terminal Shrouds                                                                                                                                |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | 3-pole                                                                                                                                          | TS400-13                                                                          | TS600-3              | TS800-3                                                                             | TS1600-13             |
|                                                                                                                                                                                                                                                                                                                   | 4-pole                                                                                                                                          | TS400-14                                                                          |                      |                                                                                     | TS1600-14             |
|                                                                                                                                                                                                                                                                                                                   | Shrouds with “-3” suffix are single shrouds that cover all three terminals. Shrouds with “-13” or “-14” are single pole shrouds with 3 or 4 per |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | Auxiliary Contacts*                                                                                                                             |                                                                                   |                      |                                                                                     |                       |
|                                                                                                                                                                                                                                                                                                                   | Normally Open                                                                                                                                   | OA1G10                                                                            | OA1G10               | OA1G10                                                                              | OA1G10                |
|                                                                                                                                                                                                                                                                                                                   | Normally Closed                                                                                                                                 | OA3G01                                                                            | OA3G01               | OA3G01                                                                              | OA3G01                |
|                                                                                                                                                                                                                                                                                                                   | Module for 8 aux. contacts                                                                                                                      | OEA28                                                                             | OEA28                | OEA28                                                                               | OEA28                 |
| *Rated 2A max continous @690VAC                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |                                                                                   |                      |                                                                                     |                       |