

LS Electric VFD Bulletin

VFD Branch Circuit Protection

Purpose

This document is a supplement to the user manual, where the manuals do not provide detail in the fuse, CB, and manual motor starter (MMS) sizing. This document shows the exact fuses, circuit breakers, and MMS to use on LS VFDs. Equivalent fuses and circuit breakers manufactures can be used. LS has obtained the UL Type E ratings with the MMS units listed for each drive (other manufactures cannot be used). The VFDs covered in this document are the C100, M100, G100, S100, H100 and iS7.

Note:

The maximum allowed short-circuit current at the input power connection is defined in IEC 60439-1 as 100 kA. Depending on the selected MCCB, the LS VFDs are suitable for use in circuits capable of delivering a maximum of 100 kA RMS symmetrical amperes at the drive's maximum rated voltage. The following table shows the recommended MCCB for RMS symmetrical amperes. Be sure to select the appropriate MCCB per the applications SCCR requirements.

| Working Voltage | UTE100(E/N) | UTS150(N/H/L) |
|-----------------|-------------|---------------|
| 240V(50/60Hz) | 50/65 kA | 65/100/150 kA |
| 480V(50/60Hz) | 25/35 kA | 35/65/100 kA |

| Working Voltage | UTS150 (N/H/L) | UTS250 (N/H/L) | UTS400 (N/H/L) |
|-----------------|----------------|----------------|----------------|
| 480V(50/60Hz) | 35/65/100kA | 35/65/100kA | 35/65/100kA |

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C100

Table 1. C100 Fuse, CB, and MMS Sizes

| Model Number | HD HP | HD Input Amps | ND Input Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <2> |
|----------------------|-------|---------------|---------------|--------------------------|---------------------------|-------------|
| 1 Ph 200-240V | | | | | | |
| LSLV0001C100-1xx | 1/8 | 1.4 | - | 10 | UTE100 15A | MMS-32H-2.5 |
| LSLV0002C100-1xx | 1/4 | 2.8 | - | 10 | UTE100 15A | MMS-32H-4 |
| LSLV0004C100-1xx | 1/2 | 5.5 | - | 10 | UTE100 15A | MMS-32H-6 |
| LSLV0008C100-1xx | 1 | 11.0 | - | 15 | UTE100 20A | MMS-32H-13 |
| LSLV0015C100-1xx | 2 | 14.1 | - | 15 | UTE100 25A | MMS-32H-17 |
| LSLV0022C100-1xx | 3 | 24.0 | - | 25 | UTE100 40A | MMS-32H-32 |
| 3 Ph 200-240V | | | | | | |
| LSLV0004C100-2xx | 1/2 | 2.0 | 3.9 | 10 | UTE100 15A | MMS-32H-4 |
| LSLV0008C100-2xx | 1 | 5.8 | 7.3 | 10 | UTE100 15A | MMS-32H-10 |
| LSLV0015C100-2xx | 2 | 7.5 | 10.8 | 15 | UTE100 20A | MMS-32H-17 |
| LSLV0022C100-2xx | 3 | 11.0 | 13.9 | 25 | UTE100 25A | MMS-32H-26 |
| LSLV0037C100-2xx | 5 | 18.9 | 24.0 | 30 | UTE100 30A | MMS-32H-32 |
| LSLV0055C100-2xx | 7.5 | 22.1 | 28.6 | 50 | UTE100 50A | MMS-63H-50 |
| LSLV0075C100-2xx | 10 | 28.6 | 41.2 | 60 | UTE100 60A | MMS-63H-50 |
| 3 Ph 380-480V | | | | | | |
| LSLV0004C100-4xx | 1/2 | 1.8 | 2.1 | 5 | UTE100 15A | MMS-32H-2.5 |
| LSLV0008C100-4xx | 1 | 3.2 | 4.3 | 10 | UTE100 15A | MMS-32H-6 |
| LSLV0015C100-4xx | 2 | 4.4 | 5.9 | 10 | UTE100 15A | MMS-32H-10 |
| LSLV0022C100-4xx | 3 | 6.0 | 8.1 | 10 | UTE100 15A | MMS-32H-13 |
| LSLV0037C100-4xx | 5 | 10.4 | 14.0 | 20 | UTE100 25A | MMS-63H-17 |
| LSLV0055C100-4xx | 7.5 | 11.0 | 14.7 | 20 | UTE100 25A | MMS-63H-26 |
| LSLV0075C100-4xx | 10 | 14.4 | 22.0 | 30 | UTE100 30A | MMS-63H-32 |

<1> Class H or RK5

fuse

<2> UL Type E combination motor

controller

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M100

Table 2. M100 Fuse, and CB Sizes

| Model Number | HD HP | HD Input Amps | ND Input Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | BCPD CB kAIC |
|----------------------|-------|---------------|---------------|--------------------------|---------------------------|--------------|
| 1 Ph 200-240V | | | | | | |
| LSLV0001M100-1 | 1/8 | 1 | - | 5 | UTE100 15A | 100 |
| LSLV0002M100-1 | 1/4 | 1.8 | - | 5 | UTE100 15A | 100 |
| LSLV0004M100-1 | ½ | 3.7 | - | 10 | UTE100 15A | 100 |
| LSLV0008M100-1 | 1 | 7.1 | - | 10 | UTE100 15A | 100 |
| LSLV0015M100-1 | 2 | 13.6 | - | 15 | UTE100 15A | 100 |
| LSLV0022M100-1 | 3 | 18.7 | - | 20 | UTE100 20A | 100 |
| 1 Ph 120V | | | | | | |
| LSLV0002M100-S | 1/4 | 3.7 | - | 15 | UTE100 15A | 65 |
| LSLV0004M100-S | ½ | 7.4 | - | 20 | UTE100 15A | 65 |
| LSLV0008M100-S | 1 | 13.9 | - | 30 | UTE100 20A | 65 |

<1> Class H or RK5 fuse

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G100

Table 3. G100 Fuse, CB, and MMS Sizes

| Model Number | HD HP | HD Amps | ND Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <2> | Type E kAIC |
|----------------------|-------|---------|---------|--------------------------|---------------------------|-------------|-------------|
| 3 Ph 200-240V | | | | | | | |
| LSLV0004G100-2 | 1/2 | 2.2 | 3.0 | 10 | UTE100 15A | MMS-32H-4 | 100 |
| LSLV0008G100-2 | 1 | 4.9 | 6.3 | 10 | UTE100 15A | MMS-32H-8 | 100 |
| LSLV0015G100-2 | 2 | 8.4 | 10.8 | 15 | UTE100 15A | MMS-32H-13 | 100 |
| LSLV0022G100-2 | 3 | 11.8 | 13.1 | 20 | UTE100 20A | MMS-32H-17 | 100 |
| LSLV0040G100-2 | 5.4 | 18.5 | 19.4 | 30 | UTE100 30A | MMS-32H-22 | 100 |
| LSLV0055G100-2 | 7.5 | 25.8 | 32.7 | 50 | UTE100 50A | MMS-32H-40 | 100 |
| LSLV0075G100-2 | 10 | 34.9 | 44.2 | 60 | UTE100 60A | MMS-32H-50 | 100 |
| 3 Ph 380-480V | | | | | | | |
| LSLV0004G100-4 | 1/2 | 1.1 | 2.0 | 10 | UTE100 15A | MMS-32H-2.5 | 65 |
| LSLV0008G100-4 | 1 | 2.4 | 3.3 | 10 | UTE100 15A | MMS-32H-4 | 65 |
| LSLV0015G100-4 | 2 | 4.2 | 5.5 | 10 | UTE100 15A | MMS-32H-8 | 65 |
| LSLV0022G100-4 | 3 | 5.9 | 7.5 | 15 | UTE100 15A | MMS-32H-10 | 65 |
| LSLV0040G100-4 | 5.4 | 9.8 | 10.8 | 20 | UTE100 20A | MMS-32H-13 | 65 |
| LSLV0055G100-4 | 7.5 | 12.9 | 17.5 | 30 | UTE100 30A | MMS-63H-22 | 65 |
| LSLV0075G100-4 | 10 | 17.5 | 25.4 | 35 | UTE100 30A | MMS-63H-32 | 65 |

<1> Class H or RK5 fuse

<2> UL Type E combination motor controller

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S100

Table 4. S100 Fuse, CB and MMS Sizes

| Model Number | HD HP | HD Input Amps | ND Input Amps | UL Amp Rating | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <2> | Type E kAIC |
|----------------------|-------|---------------|---------------|---------------|--------------------------|---------------------------|--------------|-------------|
| 1 Ph 200-240V | | | | | | | | |
| LSLV0004S100-1 | 1/2 | 4.4 | 5.8 | 15 | JKS-10 | UTE100 15A | MMS-32H-8 | 100 |
| LSLV0008S100-1 | 1 | 9.3 | 11.7 | 15 | JKS-15 | UTE100 15A | MMS-32H-17 | 100 |
| LSLV0015S100-1 | 2 | 15.6 | 19.7 | 15 | JKS-30 | UTE100 15A | MMS-32H-32 | 100 |
| LSLV0022S100-1 | 3 | 21.7 | 24.0 | 20 | JKS-30 | UTE100 20A | MMS-32H-40 | 100 |
| 3 Ph 200-240V | | | | | | | | |
| LSLV0004S100-2 | 1/2 | 2.2 | 3.0 | 15 | JKS-15 | UTE100 15A | MMS-32H-4 | 100 |
| LSLV0008S100-2 | 1 | 4.9 | 6.3 | 15 | JKS-15 | UTE100 15A | MMS-32H-10 | 100 |
| LSLV0015S100-2 | 2 | 8.4 | 10.8 | 15 | JKS-15 | UTE100 15A | MMS-32H-17 | 100 |
| LSLV0022S100-2 | 3 | 11.8 | 13.1 | 20 | JKS-20 | UTE100 20A | MMS-32H-26 | 100 |
| LSLV0037S100-2 | 5 | 17.5 | 19.4 | 25 | JKS-25 | UTE100 25A | MMS-32H-32 | 100 |
| LSLV0055S100-2 | 7.5 | 25.8 | 32.7 | 40 | JKS-40 | UTE100 40A | MMS-63H-50 | 100 |
| LSLV0075S100-2 | 10 | 34.9 | 44.2 | 60 | JKS-60 | UTE100 60A | MMS-63H-63 | 100 |
| LSLV0110S100-2 | 15 | 50.8 | 62.3 | 80 | JKS-80 | UTE100 80A | MMS-100H-75 | 100 |
| LSLV0150S100-2 | 20 | 66.7 | 77.2 | 100 | JKS-100 | UTE100 100A | MMS-100H-100 | 100 |
| 3 Ph 380-480V | | | | | | | | |
| LSLV0004S100-4 | 1/2 | 1.1 | 2.0 | 15 | JKS-15 | UTE100 15A | MMS-32H-2.5 | 65 |
| LSLV0008S100-4 | 1 | 2.4 | 3.3 | 15 | JKS-15 | UTE100 15A | MMS-32H-6 | 65 |
| LSLV0015S100-4 | 2 | 4.2 | 5.5 | 15 | JKS-15 | UTE100 15A | MMS-32H-10 | 65 |
| LSLV0022S100-4 | 3 | 5.9 | 7.5 | 15 | JKS-15 | UTE100 15A | MMS-32H-13 | 65 |
| LSLV0037S100-4 | 5 | 8.7 | 10.8 | 15 | JKS-15 | UTE100 15A | MMS-63H-17 | 50 |
| LSLV0055S100-4 | 7.5 | 12.9 | 17.5 | 25 | JKS-25 | UTE100 25A | MMS-63H-26 | 50 |
| LSLV0075S100-4 | 10 | 17.5 | 25.4 | 30 | JKS-30 | UTE100 30A | MMS-63H-32 | 50 |
| LSLV0110S100-4 | 15 | 26.5 | 33.4 | 40 | JKS-40 | UTE100 40A | MMS-63H-50 | 50 |
| LSLV0150S100-4 | 20 | 33.4 | 42.5 | 50 | JKS-50 | UTE100 50A | MMS-100H-63 | 50 |
| LSLV0185S100-4 | 25 | 43.6 | 49.5 | 60 | JKS-60 | UTE100 60A | MMS-100H-63 | 50 |
| LSLV0220S100-4 | 30 | 50.7 | 65.7 | 80 | JKS-80 | UTE100 80A | MMS-100H-100 | 50 |
| LSLV0300S100-4 | 40 | 56 | 69 | 100 | JKS-100 | UTE100 100A | MMS-100H-100 | 50 |
| LSLV0370S100-4 | 50 | 69 | 85 | 125 | JKS-125 | UTS150 125A | - | - |
| LSLV0450S100-4 | 60 | 85 | 100 | 150 | JKS-150 | UTS150 150A | - | - |
| LSLV0550S100-4 | 75 | 103 | 134 | 200 | JKS-200 | UTS250 200A | - | - |
| LSLV0750S100-4 | 100 | 143 | 160 | 250 | JKS-250 | UTS250 250A | - | - |

<1> Class H or RK5 fuse

<2> UL Type E combination motor controller

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H100

Table 5. H100 Fuse, CB and MMS Sizes (200-240V)

| Model Number | ND HP | ND Input Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <3> | Type E kAIC |
|----------------------|-------|---------------|--------------------------|---------------------------|-------------|-------------|
| 3 Ph 200-240V | | | | | | |
| LSLV0008H100-2xxxx | 1 | 5 | 10 | UTE100 15A | MMS-32H-6 | 100 |
| LSLV0015H100-2xxxx | 2 | 8 | 10 | UTE100 15A | MMS-32H-10 | 100 |
| LSLV0022H100-2xxxx | 3 | 12 | 15 | UTE100 20A | MMS-32H-17 | 100 |
| LSLV0037H100-2xxxx | 5 | 16 | 20 | UTE100 25A | MMS-32H-26 | 100 |
| LSLV0055H100-2xxxx | 7.5 | 22 | 50 | UTE100 30A | MMS-32H-32 | 100 |
| LSLV0075H100-2xxxx | 10 | 30 | 60 | UTE100 40A | MMS-63H-40 | 100 |
| LSLV0110H100-2xxxx | 15 | 42 | 80 | UTE100 60A | MMS-100H-63 | 100 |
| LSLV0150H100-2xxxx | 20 | 56 | 100 | UTE100 80A | MMS-100H-75 | 100 |
| LSLV0185H100-2xxxx | 25 | 69 | 125 | UTE100 100A | MMS-100H-90 | 100 |

<1> Class H or RK5 fuse

<2> Use "T" type 100% rated MCCB

<3> UL Type E combination motor controller

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Table 6. H100 Fuse, CB and MMS Sizes (380-480V)

| Model Number | ND HP | ND Input Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <3> | Type E kAIC |
|----------------------|-------|---------------|--------------------------|---------------------------|-------------|-------------|
| 3 Ph 380-480V | | | | | | |
| LSLV0008H100-4xxxx | 1 | 2.5 | 10 | UTE100 15A | MMS-32H-4 | 65 |
| LSLV0015H100-4xxxx | 2 | 4 | 10 | UTE100 15A | MMS-32H-6 | 65 |
| LSLV0022H100-4xxxx | 3 | 6 | 15 | UTE100 15A | MMS-32H-10 | 65 |
| LSLV0037H100-4xxxx | 5 | 8 | 20 | UTE100 15A | MMS-32H-13 | 65 |
| LSLV0055H100-4xxxx | 7.5 | 12 | 30 | UTE100 20A | MMS-63H-17 | 50 |
| LSLV0075H100-4xxxx | 10 | 16 | 30 | UTE100 25A | MMS-63H-22 | 50 |
| LSLV0110H100-4xxxx | 15 | 24 | 50 | UTE100 40A | MMS-63H-32 | 50 |
| LSLV0150H100-4xxxx | 20 | 30 | 60 | UTE100 40A | MMS-63H-40 | 50 |
| LSLV0185H100-4xxxx | 25 | 38 | 70 | UTE100 50A | MMS-100H-63 | 50 |
| LSLV0220H100-4xxxx | 30 | 45 | 100 | UTE100 60A | MMS-100H-63 | 50 |
| LSLV0300H100-4xxxx | 40 | 61 | 125 | UTE100 80A | MMS-100H-90 | 50 |
| LSLV0370H100-4xxxx | 50 | 75 | 125 | UTE100 100A | MMS-100H-90 | 50 |
| LSLV0450H100-4xxxx | 60 | 91 | 160 | UTS150 125A | - | - |
| LSLV0550H100-4xxxx | 75 | 107 | 200 | UTS150 150A | - | - |
| LSLV0750H100-4xxxx | 100 | 142 | 250 | UTS250 200A | - | - |
| LSLV0900H100-4xxxx | 125 | 169 | 350 | UTS250 225A | - | - |
| LSLV1100H100-4xxxx | 150 | 215 | 350 | UTS600 500A | - | - |
| LSLV1320H100-4xxxx | 200 | 255 | 400 | UTS600 600A | - | - |
| LSLV1600H100-4xxxx | 250 | 315 | 450 | UTS600 600A | - | - |
| LSLV1850H100-4xxxx | 300 | 359 | 550 | UTS800 800A | - | - |
| LSLV2200H100-4xxxx | 350 | 419 | 600 | UTS800 800A | - | - |
| LSLV2500H100-4xxxx | 400 | 469 | 700 | UTS800 800A | - | - |
| LSLV3150H100-4xxxx | 500 | 598 | 800 | UTS1200 1200A | - | - |
| LSLV3550H100-4xxxx | 550 | 666 | 1000 | UTS1200 1200A | - | - |
| LSLV4000H100-4xxxx | 650 | 751 | 1100 | UTS1200 T 1200A <2> | - | - |
| LSLV5000H100-4xxxx | 800 | 938 | 1250 | UTS1200 T 1200A <2> | - | - |

<1> Class H or RK5 fuse

<2> Use "T" type 100% rated MCCB

<3> UL Type E combination motor controller

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iS7

Table 7. iS7 Fuse, CB and MMS Sizes (200-240V)

| Model Number | HD HP | HD Amps | ND Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <2> | Type E kAIC |
|----------------------|-------|---------|---------|--------------------------|---------------------------|--------------|-------------|
| 3 Ph 200-240V | | | | | | | |
| SV0008IS7-2xxxx | 1 | 4.3 | 6.8 | 10 | UTE100 15A | MMS-32H-10 | 100 |
| SV0015IS7-2xxxx | 2 | 6.9 | 10.6 | 15 | UTE100 15A | MMS-32H-17 | 100 |
| SV0022IS7-2xxxx | 3 | 11.2 | 14.9 | 20 | UTE100 30A | MMS-32H-26 | 100 |
| SV0037IS7-2xxxx | 5 | 14.9 | 21.3 | 35 | UTE100 30A | MMS-32H-32 | 100 |
| SV0055IS7-2xxxx | 7.5 | 22.1 | 28.6 | 50 | UTS150 50A | MMS-32H-40 | 100 |
| SV0075IS7-2xxxx | 10 | 28.6 | 41.2 | 70 | UTS150 60A | MMS-63H-50 | 100 |
| SV0110IS7-2xxxx | 15 | 44.3 | 54.7 | 80 | UTS150 100A | MMS-100H-75 | 100 |
| SV0150IS7-2xxxx | 20 | 55.9 | 69.7 | 100 | UTS150 125A | MMS-100H-100 | 100 |
| SV0185IS7-2xxxx | 25 | 70.8 | 82.9 | 125 | UTS150 150A | - | - |
| SV0220IS7-2xxxx | 30 | 85.3 | 116.1 | 160 | UTS250 175A | - | - |
| SV0300IS7-2xxxx | 40 | 121 | 152.0 | 200 | UTS250 225A | - | - |
| SV0370IS7-2xxxx | 50 | 154 | 190.0 | 250 | UTS400 300A | - | - |
| SV0450IS7-2xxxx | 60 | 191 | 231.0 | 350 | UTS400 350A | - | - |
| SV0550IS7-2xxxx | 75 | 233 | 302.0 | 400 | UTS600 500A | - | - |
| SV0750IS7-2xxxx | 100 | 305 | 362 | 450 | UTS600 600A | - | - |

<1> Class H or RK5 fuse

<2> UL Type E combination motor controller

<3> Use "T" type 100% rated MCCB

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VFD Branch Circuit Protection

Table 8. iS7 Fuse, CB and MMS Sizes (380-480V)

| Model Number | HD HP | HD Amps | ND Amps | Time Delay Fuse Amps <1> | Circuit Breaker (LS MCCB) | LS MMS <2> | Type E kAIC |
|----------------------|-------|---------|---------|--------------------------|---------------------------|--------------|-------------|
| 3 Ph 380-480V | | | | | | | |
| SV0008IS7-4xxxx | 1 | 2.2 | 3.7 | 10 | UTE100 15A | MMS-32H-6 | 50 |
| SV0015IS7-4xxxx | 2 | 3.6 | 5.7 | 10 | UTE100 15A | MMS-32H-10 | 50 |
| SV0022IS7-4xxxx | 3 | 5.5 | 7.7 | 15 | UTE100 15A | MMS-32H-13 | 50 |
| SV0037IS7-4xxxx | 5 | 7.5 | 11.1 | 20 | UTE100 15A | MMS-63H-17 | 50 |
| SV0055IS7-4xxxx | 7.5 | 11.0 | 14.7 | 35 | UTE100 30A | MMS-63H-26 | 50 |
| SV0075IS7-4xxxx | 10 | 14.4 | 21.9 | 35 | UTE100 30A | MMS-63H-32 | 50 |
| SV0110IS7-4xxxx | 15 | 22.0 | 26.4 | 50 | UTS150 50A | MMS-63H-50 | 50 |
| SV0150IS7-4xxxx | 20 | 26.6 | 35.5 | 70 | UTS150 60A | MMS-63H-50 | 50 |
| SV0185IS7-4xxxx | 25 | 35.6 | 41.1 | 70 | UTS150 80A | MMS-100H-63 | 50 |
| SV0220IS7-4xxxx | 30 | 41.6 | 55.7 | 100 | UTS150 100A | MMS-100H-75 | 50 |
| SV0300IS7-4xxxx | 40 | 55.5 | 67.5 | 125 | UTS150 125A | MMS-100H-100 | 50 |
| SV0370IS7-4xxxx | 50 | 67.9 | 81.7 | 125 | UTS150 150A | - | - |
| SV0450IS7-4xxxx | 60 | 82.4 | 101.8 | 160 | UTS250 175A | - | - |
| SV0550IS7-4xxxx | 75 | 102.6 | 143.6 | 200 | UTS250 225A | - | - |
| SV0750IS7-4xxxx | 100 | 143.4 | 173.4 | 250 | UTS400 300A | - | - |
| SV0900IS7-4xxxx | 125 | 174.7 | 212.9 | 350 | UTS400 400A | - | - |
| SV1100IS7-4xxxx | 150 | 213.5 | 254.2 | 400 | UTS600 500A | - | - |
| SV1320IS7-4xxxx | 200 | 255.5 | 315.3 | 450 | UTS600 600A | - | - |
| SV1600IS7-4xxxx | 250 | 316.3 | 359.3 | 450 | UTS600 600A | - | - |
| SV1850IS7-4xxxx | 300 | 404.0 | 463.0 | 600 | UTS800 800A | - | - |
| SV2200IS7-4xxxx | 350 | 466.0 | 590.0 | 800 | UTS800 800A | - | - |
| SV2800IS7-4xxxx | 400 | 605.0 | 673.0 | 1000 | UTS1200 1000A | - | - |
| SV3150IS7-4xxxx | 500 | 674.0 | 796.0 | 1200 | UTS1200 T 1200A <3> | - | - |
| SV3750IS7-4xxxx | 600 | 798.0 | 948.0 | 1400 | 1400A | - | - |

<1> Class H or RK5 fuse

<2> UL Type E combination motor controller

<3> Use "T" type 100% rated MCCB