

Technical Data

Data according to IEC 60947-3, VDE 0660

| Main contacts | | Type | LS16 | LS25 | LS32 | LS38 | LS40 | LS55 | |
|--|--|--------------------|---|------------|------------|---------|--|--------------|--------------|
| Rated operational current I_e | | 500V | A | 1 | 1,25 | 1,5 | x | x | 2,5 |
| DC22B | | 600V | A | 0,5 | 0,75 | 1 | x | x | 2,0 |
| 1 pole | | 800V | A | 0,3 | 0,4 | 0,5 | x | x | 1,5 |
| A1 | | 1000V | A | 0,15 | 0,2 | 0,25 | x | x | 1,0 |
| <u>1</u> | | 1200V | A | - | - | - | x | x | x |
| | | 1500V | A | - | - | - | x | x | x |
| 2 poles in series | | 500V | A | 7 | 8 | 9 | x | x | x |
| A2 | | 600V | A | 5,5 | 6 | 6,5 | x | x | x |
| | | 800V | A | 2 | 2,5 | 3 | x | x | x |
| <u>1</u> <u>2</u> | | 1000V | A | 1 | 1,5 | 2 | x | x | x |
| | | 1200V | A | - | - | - | x | x | x |
| | | 1500V | A | - | - | - | x | x | x |
| 4 poles in series | | 500V | A | 16 | 25 | 32 | x | x | x |
| A4 | | 600V | A | 16 | 25 | 27,5 | x | x | x |
| | | 800V | A | 11,5 | 12 | 12,5 | x | x | x |
| <u>1</u> <u>2</u> <u>3</u> <u>4</u> | | 1000V | A | 8 | 9 | 10 | x | x | x |
| | | 1200V | A | - | - | - | x | x | x |
| | | 1500V | A | - | - | - | x | x | x |
| Rated conditional short-circuit current | | kA _{eff} | 5 | 5 | 5 | 5 | 10 | 10 | |
| Max. fuse size | | gL (gG) | A | 40 | 63 | 80 | 80 | 125 | 160 |
| Mechanical life | | x10 ³ | 10 | 10 | 10 | 10 | 10 | 10 | |
| Rated short-time withstand current (1s) | | lcw A2, A4, A6, A8 | A | 800 | 900 | 1000 | 1000 | A2, A4: 1200 | A2, A4: 1400 |
| | | A2+2, A3+2, A4+2 | A | 1300 | 1500 | 1700 | 1700 | A2+2: 2000 | A2+2: 2400 |
| Short circuit making capacity | | lcm A2, A4, A6, A8 | A | 800 | 900 | 1000 | 1000 | A2, A4: 1200 | A2, A4: 1400 |
| | | A2+2, A3+2, A4+2 | A | 1300 | 1500 | 1700 | 1700 | A2+2: 2000 | A2+2: 2400 |
| Maximum cable cross sections (incl. jumper) | | LSV-B1 | LSV-B1 | LSV-B1 | LSV-B1 | LSV-B2 | LSV-B2 | | |
| solid or stranded | | mm ² | 4 - 16 | 4 - 16 | 4 - 16 | 4-16 | 2,5 - 25 | 2,5 - 25 | |
| flexible | | mm ² | 4 - 10 | 4 - 10 | 4 - 10 | 4-10 | 2,5 - 16 | 2,5 - 16 | |
| flexible (+ multicore cable end) | | mm ² | 4 - 10 | 4 - 10 | 4 - 10 | 4-10 | 1,5 - 16 | 1,5 - 16 | |
| Size of terminal screw | | M4 Pz2 | M4 Pz2 | M4 Pz2 | M4 Pz2 | M5 Pz2 | M5 Pz2 | M5 Pz2 | |
| Tightening torque | | Nm | 1,8 - 2 | 1,8 - 2 | 1,8 - 2 | 1,8 - 2 | 2,5 - 2,8 | 2,5 - 2,8 | |
| 2 cables per terminal without jumper LSV-B1 / LSV-B2 | | | | | | | | | |
| solid or stranded | | mm ² | 16+(1,5-2,5) / 10+(1,5-6) / 6+(1,5-10) / 4+(1,5-10) | | | | 16+(1,5-2,5) / 10+(1,5-10) / 6+(1,5-10) / 4+(1,5-10) | | |
| flexible & flexible + multicore cable end | | mm ² | 16+(1,5-2,5) / 10+(1,5-4) / 6+(1,5-6) | | | | 16+(1,5-6) / 10+(1,5-10) / 6+(1,5-16) / 4+(1,5-16) | | |
| stranded | | AWG | 8+(16-12) / 10+(16-10) / 12+(16-8) 14+(16-8) | | | | 3+(18-10) / 4+(18-10) / 6+(18-8) 8+(18-8) | | |
| solid | | AWG | 10+(16-12) / 12+(16-10) 14+(16-10) | | | | 10+(16-10) / 12+(16-10) / 14+(16-10) 12+(16-10)/14+(16-10) | | |
| Maximum ambient temperature | | | | | | | | | |
| Operation | | open | °C | -40 to +65 | | | | | |
| | | enclosed | °C | -40 to +45 | | | | | |
| Storage | | | °C | -50 to +90 | | | | | |
| Power loss per switch at I _e max. | | | A | A | A | | A | A | |
| A2 | | (A)/W | (16)/ 1 | (25)/ 2,3 | (32)/ 3,7 | | (40)/ 4 | (55)/ 7,5 | |
| A4 | | (A)/W | (16)/ 2 | (25)/ 4,6 | (32)/ 7,4 | | (40)/ 8 | (55)/ 15 | |
| A6 | | (A)/W | (16)/ 3 | (25)/ 6,9 | (32)/ 11,1 | | (40)/ 12 | (55)/ 22,5 | |
| A8 | | (A)/W | (16)/ 4 | (25)/ 9,2 | (32)/ 14,8 | | (40)/ 16 | (55)/ 30 | |
| A2+2 | | (A)/W | (29)/1,5 | (45)/ 3,7 | (58)/ 6 | | (72)/ 6,5 | (85)/ 9 | |
| A3+2 | | (A)/W | (29)/2,3 | (45)/ 5,6 | (58)/ 9 | | (72)/ 9,8 | (85)/ 14 | |
| A4+2 | | (A)/W | (29)/3 | (45)/ 7,4 | (58)/ 12 | | (72)/ 13 | (85)/ 18 | |
| Contact resistance per pole | | mΩ | 1,75 | 1,75 | 1,75 | | 1,25 | 1,25 | |

x pending