

| Type of contactor | | LC1- | D09 | DT20 | D12 | DT25 | D18 | DT32 | D25 | DT40 |
|--|---|-----------|---|------|----------|------|----------|------|----------|------|
| Pole characteristics | | | | | | | | | | |
| Rated operational current (Ie) (Ue ≤ 440 V) | In AC-3, θ ≤ 60 °C | A | 9 | | 12 | | 18 | | 25 | |
| | In AC-1, θ ≤ 60 °C | A | 25 | 20 | 25 | | 32 | | 40 | |
| Rated operational voltage (Ue) | Up to | V | 690 | | 690 | | 690 | | 690 | |
| Frequency limits | Of the operating current | Hz | 25...400 | | 25...400 | | 25...400 | | 25...400 | |
| Conventional thermal current (Ith) | θ ≤ 60 °C | A | 25 | 20 | 25 | 25 | 32 | 32 | 40 | 40 |
| Rated making capacity (440 V) | Conforming to IEC 947 | | 250 | | 250 | | 300 | | 450 | |
| Rated breaking capacity (440 V) | Conforming to IEC 947 | | 250 | | 250 | | 300 | | 450 | |
| Permissible short-time rating No current flowing for preceding 15 minutes at θ ≤ 40 °C | For 1 s | A | 210 | | 210 | | 240 | | 380 | |
| | For 10 s | A | 105 | | 105 | | 145 | | 240 | |
| | For 1 min | A | 61 | | 61 | | 84 | | 120 | |
| | For 10 min | A | 30 | | 30 | | 40 | | 50 | |
| Protection by fuse against short-circuits (U ≤ 690 V) | Without thermal overload relay, fuse gG | type 1 | A | 25 | | 40 | | 50 | | 63 |
| | | type 2 | A | 20 | | 25 | | 35 | | 40 |
| | With thermal overload relay | A | See pages 2/52 and 2/53, for aM or gG fuse ratings corresponding to the associated thermal overload relay | | | | | | | |
| Average impedance per pole | At Ith and 50 Hz | mΩ | 2.5 | | 2.5 | | 2.5 | | 2 | |
| Power dissipation per pole for the above operating currents | AC-3 | W | 0.20 | | 0.36 | | 0.8 | | 1.25 | |
| | AC-1 | W | 1.56 | | 1.56 | | 2.5 | | 3.2 | |

a.c. control circuit characteristics

| | | | | | |
|---|------------------------------|---------------|------------|--|------|
| Rated control circuit voltage (Uc) | 50/60 Hz | V | 12...690 | | |
| Control voltage limits 50 or 60 Hz coils | Operational | | – | | |
| | Drop-out | | – | | |
| | 50/60 Hz coils | Operational | | 0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 60 °C | |
| | | Drop-out | | 0.3...0.6 Uc at 60 °C | |
| Average consumption at 20 °C and at Uc | ~ 50 Hz | Inrush | 50 Hz coil | VA | – |
| | | | Cos φ | | 0.75 |
| | | 50/60 Hz coil | VA | 70 | |
| | | | Cos φ | | 0.3 |
| | Sealed | 50 Hz coil | VA | – | |
| | | | Cos φ | | 0.3 |
| | | 50/60 Hz coil | VA | 7 | |
| | | | Cos φ | | 0.3 |
| ~ 60 Hz | Inrush | 60 Hz coil | VA | – | |
| | | Cos φ | | 0.75 | |
| | 50/60 Hz coil | VA | 70 | | |
| | | Cos φ | | 0.3 | |
| Sealed | 60 Hz coil | VA | – | | |
| | | Cos φ | | 0.3 | |
| | 50/60 Hz coil | VA | 7.5 | | |
| | | Cos φ | | 0.3 | |
| Heat dissipation | 50/60 Hz | W | 2...3 | | |
| Operating time (3) | Closing "C" | ms | 12...22 | | |
| | Opening "O" | ms | 4...19 | | |
| Mechanical life in millions of operating cycles | 50 or 60 Hz coil | | – | | |
| | 50/60 Hz coil on 50 Hz | | 15 | | |
| Maximum operating rate at ambient temperature ≤ 60 °C | In operating cycles per hour | | 3600 | | |

(1) Protection ensured for the connection cross-sections shown on page 2/33 and for connection via cable.

(2) In the least favourable direction, without change of contact state (coil supplied at Ue).

(3) The closing time "C" is measured from the moment the coil supply is switched on to initial contact of the main poles. The opening time "O" is measured from the moment the coil supply is switched off to the moment the main poles separate.

| D32 | DT60 | D38 | D40 | D50 | D65 | D80 | D95 | D115 | D150 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 32 | 32 | 38 | 40 | 50 | 65 | 80 | 95 | 115 | 150 |
| 50 | 60 | 50 | 60 | 80 | 80 | 125 | 125 | 200 | 200 |
| 690 | 690 | 690 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 25...400 | 25...400 | 25...400 | 25...400 | 25...400 | 25...400 | 25...400 | 25...400 | 25...400 | 25...400 |
| 50 | 60 | 50 | 60 | 80 | 80 | 125 | 125 | 200 | 200 |
| 550 | 500 | 550 | 800 | 900 | 1000 | 1100 | 1100 | 1260 | 1660 |
| 550 | 500 | 550 | 800 | 900 | 1000 | 1100 | 1100 | 1100 | 1400 |
| 430 | 430 | 430 | 720 | 810 | 900 | 990 | 1100 | 1100 | 1400 |
| 260 | 260 | 310 | 320 | 400 | 520 | 640 | 800 | 950 | 1200 |
| 138 | 138 | 150 | 165 | 208 | 260 | 320 | 400 | 550 | 580 |
| 60 | 60 | 60 | 72 | 84 | 110 | 135 | 135 | 250 | 250 |
| 63 | 63 | 63 | 80 | 100 | 160 | 200 | 200 | 250 | 315 |
| 63 | 63 | 63 | 80 | 100 | 125 | 160 | 160 | 200 | 250 |

See pages 2/52 and 2/53, for aM or gG fuse ratings corresponding to the associated thermal overload relay

| | | | | | | | | | |
|---|---|---|-----|-----|-----|------|------|-----|------|
| 2 | 2 | 2 | 1.5 | 1.5 | 1 | 0.8 | 0.8 | 0.6 | 0.6 |
| 2 | 2 | 3 | 2.4 | 3.7 | 4.2 | 5.1 | 7.2 | 7.9 | 13.5 |
| 5 | 5 | 5 | 5.4 | 9.6 | 6.4 | 12.5 | 12.5 | 24 | 24 |

| | | | | | | | | | | |
|--|--|--|---------|--|---------|------------------------------------|---------|-----------|---------|--|
| 12...690 | 24...660 | | | | | 24...500 | | | | |
| – | 0.85...1.1 Uc at 55 °C | | | | | 0.85...1.1 Uc at 55 °C | | | | |
| – | 0.3...0.6 Uc at 55 °C | | | | | 0.3...0.5 Uc at 55 °C | | | | |
| 0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 60 °C | 0.8...1.1 Uc on 50 Hz and 0.85...1.1 Uc on 60 Hz at 55 °C | | | | | 0.8...1.15 Uc on 50/60 Hz at 55 °C | | | | |
| 0.3...0.6 Uc at 60 °C | 0.3...0.6 Uc at 55 °C | | | | | 0.3...0.5 Uc at 55 °C | | | | |
| – | 200 | | | | | 300 | | – | | |
| 0.75 | 0.75 | | | | | 0.8 | | 0.9 | | |
| 70 | 245 | | | | | 280...350 | | 280...350 | | |
| – | 20 | | | | | 22 | | – | | |
| 0.3 | 0.3 | | | | | 0.3 | | 0.9 | | |
| 7 | 26 | | | | | 2...18 | | 2...18 | | |
| – | 220 | | | | | 300 | | – | | |
| 0.75 | 0.75 | | | | | 0.8 | | 0.9 | | |
| 70 | 245 | | | | | 280...350 | | 280...350 | | |
| – | 22 | | | | | 22 | | – | | |
| 0.3 | 0.3 | | | | | 0.3 | | 0.9 | | |
| 7.5 | 26 | | | | | 2...18 | | 2...18 | | |
| 2...3 | 6...10 | | | | | 3...8 | | 3...4.5 | | |
| 12...22 | 20...26 | | 20...26 | | 20...26 | | 20...35 | | 20...35 | |
| 4...19 | 8...12 | | 8...12 | | 8...12 | | 6...20 | | 6...20 | |
| – | 16 | | 16 | | 16 | | 10 | | 10 | |
| 15 | 6 | | 6 | | 6 | | 4 | | 4 | |
| 3600 | 3600 | | 3600 | | 3600 | | 3600 | | 2400 | |
| | | | | | | | | | 1200 | |