

Efficor Contactors 3-Pole AC !!! NEW !!!

• IEC/EN 60947-1/4-1/5-1
 • EN 50005
 Control Circuit up to 600VAC/400VDC
 IP20 / Ith = 20A
 4-Pole available on request

CSA 22.2/14
 VDE 0660/102
Control Voltages:
 AC ϕ = 024 : 24VAC ; 048: 48VAC ; 110: 110VAC ; 230: 220VAC ;
 400: 400VAC 500 :500VAC ; 600 :600VAC



| Item Code | Rating AC3 | Aux. Contacts |
|------------------|--------------|---------------|
| EC09A311B ϕ | 9A - 4kW | 1NO + 1NC |
| EC12A311B ϕ | 12A - 5.5kW | 1NO + 1NC |
| EC18A311B ϕ | 18A - 7.5kW | 1NO + 1NC |
| EC25A311B ϕ | 25A - 11kW | 1NO + 1NC |
| EC32A300B ϕ | 32A - 15kW | - |
| EC40A300B ϕ | 40A - 18.5kW | - |

Efficor Contactors 3-Pole DC - Wide Range !!! NEW !!!

• IEC/EN 60947-1/4-1/5-1
 • EN 50005
 Control Circuit up to 600VAC/400VDC
 IP20 / Ith = 20A
 4-Pole available on request

CSA 22.2/14, VDE 0660/102
 Wide Range: -25% Un / -30% Un
Control Voltages:
 DC ϕ = 012 : 12VDC ; 024: 24VDC ; 036:36VDC
 048: 48VDC ; 060 : 60VDC ; 072 : 72VDC 110: 110VDC



| Item Code | Rating AC3 | Aux. Contacts |
|--------------------|--------------|---------------|
| EC09D311B ϕ W | 9A - 4kW | 1NO + 1NC |
| EC12D311B ϕ W | 12A - 5.5kW | 1NO + 1NC |
| EC18D311B ϕ W | 18A - 7.5kW | 1NO + 1NC |
| EC25D311B ϕ W | 25A - 11kW | 1NO + 1NC |
| EC32D300B ϕ W | 32A - 15kW | - |
| EC40D300B ϕ W | 40A - 18.5kW | - |

Efficor Contactors 3-Pole DC - Low Consumption !!! NEW !!!

• IEC/EN 60947-1/4-1/5-1
 • EN 50005
 Control Circuit up to 600VAC/400VDC
 IP20 / Ith = 20A
 4-Pole available on request

CSA 22.2/14, VDE 0660/102
 Low Consumption <3.3W for EC09 to EC18
 Low Consumption <5.5W for EC25 to EC40
Control Voltages:
 DC ϕ = 024: 24VDC ; 048: 48VDC ; 110: 110VDC ; 230: 230VDC



| Item Code | Rating AC3 | Aux. Contacts |
|--------------------|--------------|---------------|
| EC09D311B ϕ L | 9A - 4kW | 1NO + 1NC |
| EC12D311B ϕ L | 12A - 5.5kW | 1NO + 1NC |
| EC18D311B ϕ L | 18A - 7.5kW | 1NO + 1NC |
| EC25D311B ϕ L | 25A - 11kW | 1NO + 1NC |
| EC32D300B ϕ L | 32A - 15kW | - |
| EC40D300B ϕ L | 40A - 18.5kW | - |

Series Efficor Spare Coils - AC !!! NEW !!!

Control Voltages:
 AC ϕ = 024 : 24VAC ; 048: 48VAC ; 110: 110VAC ; 230: 220VAC ; 400: 400VAC
 500 :500VAC ; 600 :600VAC



| Item Code | For Contactor |
|-----------------|----------------------|
| ECCS1A ϕ S | EC09A .. 18A / ECACA |
| ECCS2A ϕ S | EC25A .. 40A |

Series Efficor Spare Coils - DC Wide Range !!! NEW !!!

Control Voltages:
 DC ϕ = 012 : 12VDC ; 024: 24VDC ; 036:36VDC ; 048: 48VDC ; 110: 110VDC
 048: 48VDC ; 060 : 60VDC ; 072 : 72VDC 110: 110VDC



| Item Code | For Contactor |
|------------|----------------------|
| ECCS1D230S | EC09D .. 18D / ECACD |
| ECCS2D230S | EC25D .. 40D |

| Series Efficor Spare Coils - DC Low Consumption | | !!! NEW !!! |
|---|----------------------|-------------|
| Control Voltages: DC 0 = 024: 24VDC ; 048: 48VDC ; 110: 110VDC ; 230: 230VDC | | |
| Item Code | For Contactor | |
| ECCSA1D0SL | EC09D .. 18D / ECACD | |
| ECCSA2D0SL | EC25D .. 40D | |



| Efficor Auxiliary Contacts | | | | !!! NEW !!! |
|----------------------------|---------|-------|------------------------------|-------------|
| Item Code | 6-Digit | Type | Contacts | |
| ECFA211S | 268872 | Front | 1NO + 1NC | |
| ECFA220S | 268873 | Front | 2NO | |
| ECFA202S | 268874 | Front | 2NC | |
| ECFA440S | 268881 | Front | 4NO | |
| ECFA431S | 268882 | Front | 3NO + 1NC | |
| ECFA422S | 268883 | Front | 2NO + 2NC | |
| ECFA413S | 268884 | Front | 1 NO + 3NC | |
| ECFA404S | 268885 | Front | 4NC | |
| ECFA422SE | 268886 | Front | 2NO + 2NC (Early Break/Make) | |
| ECLA220S | 268899 | Side | 2NO | |
| ECLA211S | 268900 | Side | 1NO + 1NC | |
| ECLA202S | 268901 | Side | 2NC | |



| Efficor Mechanical Interlock | | | !!! NEW !!! |
|------------------------------|---------|----------|-------------|
| Item Code | 6-Digit | Contacts | |
| ECMI | 268908 | - | |
| ECMI025 | 268910 | 2NC | |



| Efficor Pneumatic Timers | | | | | !!! NEW !!! |
|--------------------------|---------|------------|-----------|-----------|-------------|
| Item Code | 6-Digit | Time | Type | Contacts | |
| ECPT30SC | 268913 | 0.1 - 30 s | delay ON | 1NO + 1NC | |
| ECPT60SC | 268914 | 1 - 60 s | delay ON | 1NO + 1NC | |
| ECPT30SD | 268916 | 0.1 - 30 s | delay OFF | 1NO + 1NC | |
| ECPT60SD | 268917 | 1 - 60s | delay OFF | 1NO + 1NC | |



| Link Modules for Fuseless Starter Kits | | | | !!! NEW !!! |
|--|---------|------------------------|--------------------|-------------|
| Item Code | 6-Digit | use with Motor Breaker | Use with Contactor | |
| ECM1AL25 | 268954 | GPS1 | EC09A - EC25A | |
| ECM1AL32 | 268955 | GPS1 | EC32A | |



| Efficor Thermal Overload Relays (Class10) | | | | !!! NEW !!! |
|---|---------|--------------------|-----------------------|-------------|
| Item Code | 6-Digit | Use With | Setting Range Min/Max | |
| ECRT1B10B | 268996 | EC09 / EC12 / EC18 | 0.16A | 0.26A |
| ECRT1B10C | 268997 | EC09 / 12 / 18 | 0.25A | 0.41A |
| ECRT1B10D | 268998 | EC09 / 12 / 18 | 0.4A | 0.65A |
| ECRT1B10F | 268999 | EC09 / 12 / 18 | 0.65A | 1.1A |
| ECRT1B10G | 269000 | EC09 / 12 / 18 | 1.0A | 1.5A |
| ECRT1B10H | 269001 | EC09 / 12 / 18 | 1.3A | 1.9A |
| ECRT1B10J | 269002 | EC09 / 12 / 18 | 1.8A | 2.7A |
| ECRT1B10K | 269003 | EC09 / 12 / 18 | 2.5A | 4.0A |
| ECRT1B10L | 269004 | EC09 / 12 / 18 | 4.0A | 6.3A |
| ECRT1B10M | 269005 | EC09 / 12 / 18 | 5.5A | 8.5A |
| ECRT1B10N | 269006 | EC09 / 12 / 18 | 8.0A | 12.0A |
| ECRT1B10P | 269007 | EC09 / 12 / 18 | 10.0A | 16.0A |
| ECRT1B10S | 269008 | EC09 / 12 / 18 | 14.5A | 18.0A |
| ECRT1B10T | 269009 | EC09 / 12 / 18 | 17.5A | 22.0A |
| ECRT2B10N | 268103 | EC25 / 32 / 40 | 8.0A | 12.0A |
| ECRT2B10P | 268104 | EC25 / 32 / 40 | 10.0A | 16.0A |
| ECRT2B10S | 268105 | EC25 / 32 / 40 | 14.5A | 18.0A |
| ECRT2B10T | 268106 | EC25 / 32 / 40 | 17.5A | 22.0A |
| ECRT2B10U | 268107 | EC25 / 32 / 40 | 21.0A | 26.0A |
| ECRT2B10V | 268108 | EC25 / 32 / 40 | 25.0A | 32.0A |
| ECRT2B10W | 268109 | EC25 / 32 / 40 | 30.0A | 40.0A |



Contactors, Relays and Thermal Overloads

Series MCR Control Relays - AC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 AC ϕ = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC

| Item Code | Contacts |
|----------------------|-------------|
| MCRA040AT \diamond | 4 NO |
| MCRA031AT \diamond | 3 NO + 1NC |
| MCRA022AT \diamond | 2 NO + 2 NC |
| MCRA013AT \diamond | 1 NO + 3 NC |

Series MCR Control Relays - DC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 DC ϕ = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC

| Item Code | Contacts |
|----------------------|-------------|
| MCRC040AT \diamond | 4 NO |
| MCRC031AT \diamond | 3 NO + 1NC |
| MCRC022AT \diamond | 2 NO + 2 NC |

Series MC Mini Contactors 3-Pole - AC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 AC ϕ = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC

| Item Code | Rating | Aux. Contacts |
|----------------------|-------------|---------------|
| MC0A310AT \diamond | 6A - 2.2 kW | 1NO |
| MC0A301AT \diamond | 6A - 2.2 kW | 1NC |
| MC1A310AT \diamond | 9A - 4kW | 1NO |
| MC1A301AT \diamond | 9A - 4kW | 1NC |
| MC2A310AT \diamond | 12A - 5.5kW | 1NO |
| MC2A301AT \diamond | 12A - 5.5kW | 1NC |

Series MC Mini Contactors 3-Pole - DC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 DC ϕ = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC

| Item Code | Rating | Aux. Contacts |
|----------------------|-------------|---------------|
| MC0C310AT \diamond | 6A - 2.2 kW | 1NO |
| MC0C301AT \diamond | 6A - 2.2 kW | 1NC |
| MC1C310AT \diamond | 9A - 4kW | 1NO |
| MC1C301AT \diamond | 9A - 4kW | 1NC |
| MC2C310AT \diamond | 12A - 5.5kW | 1NO |
| MC2C301AT \diamond | 12A - 5.5kW | 1NC |

Series MC Mini Contactors 4-Pole - AC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 AC ϕ = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC

| Item Code | Rating | Poles |
|----------------------|-------------|-----------|
| MC1A400AT \diamond | 9A - 4kW | 4NO |
| MC1AB00AT \diamond | 9A - 4kW | 2NO + 2NC |
| MC1AA00AT \diamond | 9A - 4kW | 4NC |
| MC2A400AT \diamond | 12A - 5.5kW | 4NO |



Series MC Mini Contactors 4-Pole - DC

• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 DC \diamond = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC

| Item Code | Rating | Poles |
|----------------------|-------------|-----------|
| MC0C400AT \diamond | 6A - 2.2 kW | 4NO |
| MC1C400AT \diamond | 9A - 4kW | 4NO |
| MC0CB00AT \diamond | 6A - 2.2 kW | 2NO + 2NC |
| MC1CB00AT \diamond | 9A - 4kW | 2NO + 2NC |

Series MC Accessories - Coils

Control Voltages:
 AC \diamond = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC ; U: 380VAC ; Y :500VAC
 DC \diamond = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC



| Item Code | Description |
|-----------------|---------------------------------|
| MB0A \diamond | Spare AC Coil for MC Contactors |
| MB0C \diamond | Spare DC Coil for MC Contactors |

Series MC Auxiliary Contact Blocks



| Item Code | 6-digit | Type | Contacts |
|------------|---------|------------------|-----------|
| MARN220AT | 100994 | Front | 2NO |
| MARN211AT | 100993 | Front | 1NO & 1NC |
| MARN202AT | 100992 | Front | 2NC |
| MARN440AT | 100991 | Front | 4NO |
| MARN431AT | 100990 | Front | 3NO & 1NC |
| MARN422AT | 100989 | Front | 2NO & 2NC |
| MARN413AT | 100988 | Front | 1NO & 3NC |
| MARN404AT | 100987 | Front | 4NC |
| MACL110AT | 100560 | Lateral | 1NO |
| MACL101AT | 100561 | Lateral | 2NC |
| MARL110ATS | 100519 | Lateral (add-on) | 1NO |
| MARL101ATS | 100520 | Lateral (add-on) | 1NC |

Series MC Mechanical Interlock



| Item Code | 6-digit | Description |
|-----------|---------|--------------------------------------|
| MMH0 | 100547 | Mechanical Interlock for MCR/MC0/MC1 |

Series MC Timers, Voltage Suppressors



| Item Code | 6-digit | Description |
|------------|---------|---|
| MREBC10AC2 | 100541 | Electronic Timer Block Delay On 0.5 - 60s 24 - 250V ac/dc |
| MREBC20AC2 | 100542 | Electronic Timer Block Delay On 0.2 - 24s 24 - 250V ac/dc |
| MP0AAE1 | 100544 | Voltage Suppressor Block R/C 12 - 60V 50/60Hz |
| MP0AAE2 | 100545 | Voltage Suppressor Block R/C 110 - 240V 50/60Hz |
| MP0CAE3 | 100546 | Voltage Suppressor Block Diode 6 - 250V DC |

Series RL Auxiliary Contactors - AC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/440VDC
 IP20 / Ith = 20A

BS 4794
 VDE 0660/102
Control Voltages:
 AC \diamond = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC

| Item Code | Contacts |
|----------------------|-------------|
| RL4RA040T \diamond | 4 NO |
| RL4RA031T \diamond | 3 NO + 1NC |
| RL4RA022T \diamond | 2 NO + 2 NC |
| RL4RA004T \diamond | 4 NC |

Series RL Auxiliary Contactors - DC



• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/440VDC
 IP20 / Ith = 20A

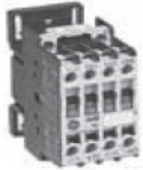
BS 4794
 VDE 0660/102
Control Voltages:
 DC \diamond = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC

| Item Code | Contacts |
|----------------------|-------------|
| RL4RD040T \diamond | 4 NO |
| RL4RD031T \diamond | 3 NO + 1NC |
| RL4RD022T \diamond | 2 NO + 2 NC |
| RL4RD004T \diamond | 4 NC |

Series CL Contactors 3-Pole AC

• IEC/EN 60947-5-1 / 1
 • EN 50005
 Control Circuit up to 600VAC/250VDC
 IP20

BS 5424 & 775
 VDE 0660/102
Control Voltages:
 AC \diamond = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC

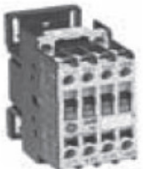


| Item Code | Rating AC3 | Aux. Contacts |
|----------------------|--------------|------------------------------|
| CL00A301T \diamond | 9A - 4kW | 1NC |
| CL00A310T \diamond | 9A - 4kW | 1NO |
| CL01A301T \diamond | 12A - 5.5kW | 1NC |
| CL01A310T \diamond | 12A - 5.5kW | 1NO |
| CL02A301T \diamond | 18A - 7.5 kW | 1NC |
| CL02A310T \diamond | 18A - 7.5 kW | 1NO |
| CL25A300T \diamond | 25A - 11kW | - |
| CL03A301M \diamond | 25A - 12kW | 1NC |
| CL03A310M \diamond | 25A - 12kW | 1NO |
| CL04A301M \diamond | 32A - 15kW | 1NC |
| CL04A310M \diamond | 32A - 15kW | 1NO |
| CL45A300M \diamond | 40A - 18.5kW | - |
| CL45A311M \diamond | 40A - 18.5kW | 1NO + 1NC (BCLF front mount) |
| CL06A300M \diamond | 50A - 22kW | - |
| CL06A311M \diamond | 50A - 22kW | 1NO + 1NC (BCLF front mount) |
| CL07A300M \diamond | 65A - 30kW | - |
| CL07A311M \diamond | 65A - 30kW | 1NO + 1NC (BCLF front mount) |
| CL08A300M \diamond | 80A - 37kW | - |
| CL08A311M \diamond | 80A - 37kW | 1NO + 1NC (BCLF front mount) |
| CL09A300M \diamond | 95A - 45kW | - |
| CL09A311M \diamond | 95A - 45kW | 1NO + 1NC (BCLF front mount) |
| CL10A300M \diamond | 105A - 55kW | - |
| CL10A311M \diamond | 105A - 55kW | 1NO + 1NC (BCLF front mount) |

Series CL Contactors 3-Pole DC

• IEC/EN 60947-5-1 / 1
 • EN 50005
 Control Circuit up to 600VAC/250VDC
 IP20

BS 5424 & 775
 VDE 0660/102
Control Voltages:
 DC \diamond = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC



| Item Code DC | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CL00D301T \diamond | 9A - 4kW | 1NC |
| CL00D310T \diamond | 9A - 4kW | 1NO |
| CL01D301T \diamond | 12A - 5.5kW | 1NC |
| CL01D310T \diamond | 12A - 5.5kW | 1NO |
| CL02D301T \diamond | 18A - 7.5 kW | 1NC |
| CL02D310T \diamond | 18A - 7.5 kW | 1NO |
| CL25D300T \diamond | 25A - 11kW | - |
| CL03D301M \diamond | 25A - 12kW | 1NC |
| CL03D310M \diamond | 25A - 12kW | 1NO |
| CL04D301M \diamond | 32A - 15kW | 1NC |
| CL04D310M \diamond | 32A - 15kW | 1NO |
| CL45D300M \diamond | 40A - 18.5kW | - |
| CL06E300M \diamond | 50A - 22kW | - |
| CL07E300M \diamond | 65A - 30kW | - |
| CL08E300M \diamond | 80A - 37kW | - |
| CL09E300M \diamond | 95A - 45kW | - |
| CL10E300M \diamond | 105A - 55kW | - |

Series CL Contactors 4-Pole AC

• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660
Control Voltages:
 AC \diamond = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC
 U: 380VAC ; Y :500VAC



| Item Code AC | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CL01A400T \diamond | 12A - 5.5kW | - |
| CL02A400T \diamond | 18A - 7.5 kW | - |
| CL03A400M \diamond | 25A - 11kW | - |
| CL04A400M \diamond | 32A - 15kW | - |
| CL05A400M \diamond | 50A - 22kW | - |
| CL07A400M \diamond | 65A - 30kW | - |
| CL09A400M \diamond | 95A - 45kW | - |



Series CL Contactors 4-Pole DC

• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660

Control Voltages:

DC ϕ = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC

| Item Code DC | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CL01D400T \diamond | 12A - 5.5kW | - |
| CL02D400T \diamond | 18A - 7.5 kW | - |
| CL03D400M \diamond | 25A - 11kW | - |
| CL04D400M \diamond | 32A - 15kW | - |
| CL05E400M \diamond | 50A - 22kW | - |
| CL07E400M \diamond | 65A - 30kW | - |
| CL09E400M \diamond | 95A - 45kW | - |

Series CL Spare Coils

Control Voltages:

AC ϕ = 10: 12VAC ; 1: 24VAC ; 9: 48VAC ; 3: 110VAC ; N: 220VAC ; U: 380VAC ; Y :500VAC
 DC ϕ = B: 12VDC ; D: 24VDC ; G: 48VDC ; J: 110VDC ; N: 220VDC



| Item Code | For Contactor |
|-----------------|----------------------|
| LB1A \diamond | RL4RA/CL00-25 AC |
| LB3A \diamond | CL04 - CL45 AC |
| LB4A \diamond | CL06 - CL10 AC |
| LB1D \diamond | RL4RD/CL00 - CL25 DC |
| LB3D \diamond | CL04 - CL04 DC |
| LB4E \diamond | CL05 - CL09 DC |

Series CL Auxiliary Contacts



| Item Code | 6-digit | Mount Type | Contact |
|-----------|---------|------------|-----------|
| BCLF10 | 104700 | Front | 1NO |
| BCLF01 | 104701 | Front | 1NC |
| BCLL20 | 104706 | Side | 2NO |
| BCLL11 | 104707 | Side | 1NO & 1NC |

Series CL Timers (On-Delay can be used as Star/Delta Timer)



| Item Code | 6-digit | Description |
|-----------|---------|---|
| BTLF30C | 104709 | Pneumatic Timer Front Mount Delay On 0.1 - 30s (2NO + 2NC) |
| BTLF30D | 104711 | Pneumatic Timer Front Mount Delay Off 0.1 - 30s (2NO + 2NC) |

Series CL Mechanical Interlocks



| Item Code | 6-digit | Description |
|-----------------|---------|-------------------------------------|
| RMLF \diamond | - | Mechanical Latch for RL/CL |
| BELA | 104723 | Mechanical Interlock for RL/CL00-45 |
| BELA02 | 104724 | Mech/Elec Interlock for RL/CL00-45 |

Series CL Start Contact Block & Voltage Suppressor



| Item Code | 6-digit | Description |
|------------------|---------|--------------------------------------|
| BMLF | 104800 | Start Contact Block |
| BSLR2 \diamond | - | Voltage Suppressor Block CL00-CL45 |
| BSLR3 \diamond | - | Voltage Suppressor Block CL05A-CL10A |

Series CSCN Capacitor Switching Contactors

• IEC/EN 60947--1 / 4-1 / 5-1 CENELEC HD 419 , VDE 0660/102 , NFC 63-110
 • EN 50005, UL 508 , CSA C22.2/14 ASE 1025 , UNE 20109
 • 220VAC Coil, Different coil voltages avail, able on request
 • kVar rating $\theta \leq 55^{\circ}\text{C}$, 400VAC
 • With built-in resistance to switch three phase capacitor banks



| Item Code | 6-digit | lth | kVAR | Aux. Contacts |
|-------------|---------|------|------|---------------|
| CSCN12A311N | 110907 | 25A | 12.5 | 1NC/1NO |
| CSCN16A311N | 110922 | 32A | 16.7 | 1NC/1NO |
| CSCN20A310N | 110932 | 45A | 20 | 1NO |
| CSCN25A310N | 110952 | 45A | 25 | 1NO |
| CSCN30A310N | 247247 | 60A | 30 | 1NO |
| CSCN45A310N | 247244 | 90A | 45 | 1NO |
| CSCN55A312N | 247235 | 110A | 55 | 1NO/2NC |
| CSCN70A310N | 247234 | 140A | 70 | 1NO |

Series CL Contact Kits

| Item Code | 6-digit | For use with Contactor | No of Poles |
|-----------|---------|------------------------|-------------|
| V31200B | 104738 | CL00 | 3 |
| V31201B | 104739 | CL01 | 3 |
| V31202B | 104741 | CL02 | 3 |
| V31225B | 104757 | CL25 | 3 |
| V31204B | 104745 | CL04 | 3 |
| V31245B | 104758 | CL45 | 3 |
| V31205B | 104747 | CL05 | 4 |
| V31206B | 104749 | CL06 | 3 |
| V31207B | 104750 | CL07 | 3 |
| V31208B | 104752 | CL08 | 3 |
| V31209B | 104754 | CL09 | 3 |
| V31210B | 104755 | CL10 | 3 |



Series CK 3-Pole Contactors AC

• IEC/EN 60947-5-1 / 1
 • EN 50005
 Control Circuit up to 600VAC/250VDC
 IP20

BS 5424 & 775
 VDE 0660/102

Control Voltages:
 AC ϕ = 1: 24VAC; 2: 48VAC; 3: 110VAC; N: 220VAC; U: 380VAC; Y: 500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V



| Item Code | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CK75CA311 \diamond | 150A - 75kW | 1NO + 1NC |
| CK08CA311 \diamond | 185A - 90kW | 1NO + 1NC |
| CK85BA311 \diamond | 205A - 110kW | 1NO + 1NC |
| CK13BA311 \diamond | 825A - 450kW | 1NO + 1NC |



Series CK 3-Pole Contactors AC/DC

• IEC/EN 60947-5-1 / 1
 • EN 50005
 Control Circuit up to 600VAC/250VDC
 IP20

BS 5424 & 775
 VDE 0660/102

Control Voltages:
 AC ϕ = 1: 24VAC; 2: 48VAC; 3: 110VAC; N: 220VAC; U: 380VAC; Y: 500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V



| Item Code 3-Pole | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CK75CE311 \diamond | 150A - 75kW | 1NO + 1NC |
| CK08CE311 \diamond | 185A - 90kW | 1NO + 1NC |
| CK85BE311 \diamond | 205A - 110kW | 1NO + 1NC |
| CK09BE311 \diamond | 250A - 132kW | 1NO + 1NC |
| CK95BE311 \diamond | 309A - 160kW | 1NO + 1NC |
| CK10CE311 \diamond | 420A - 220kW | 1NO + 1NC |
| CK11CE311 \diamond | 550A - 280kW | 1NO + 1NC |
| CK12BE311 \diamond | 700A - 375kW | 1NO + 1NC |

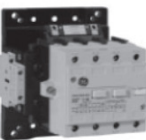


Series CK 4-Pole Contactors AC

• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660

Control Voltages:
 AC ϕ = 1: 24VAC; 2: 48VAC; 3: 110VAC; N: 220VAC; U: 380VAC; Y: 500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V



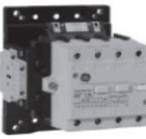
| Item Code 3-Pole | Rating AC3 | Aux. Contacts |
|----------------------|-------------|---------------|
| CK07BA411 \diamond | 150A - 75kW | 1NO + 1NC |
| CK08BA411 \diamond | 185A - 90kW | 1NO + 1NC |

Series CK 4-Pole Contactors AC/DC

• IEC/EN 60947-5-1 / 1
 • EN 50002/5/11
 Control Circuit up to 600VAC/250VDC
 IP20

BS 4794
 VDE 0660

Control Voltages:
 AC ϕ = 1: 24VAC; 2: 48VAC; 3: 110VAC; N: 220VAC; U: 380VAC; Y: 500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V



| Item Code 3-Pole | Rating AC3 | Aux. Contacts |
|----------------------|--------------|---------------|
| CK07BE411 \diamond | 150A - 75kW | 1NO + 1NC |
| CK08BE411 \diamond | 185A - 90kW | 1NO + 1NC |
| CK09BE411 \diamond | 205A - 110kW | 1NO + 1NC |
| CK95BE411 \diamond | 205A - 110kW | 1NO + 1NC |
| CK10CE411 \diamond | 250A - 132kW | 1NO + 1NC |
| CK11CE411 \diamond | 309A - 160kW | 1NO + 1NC |
| CK12BE411 \diamond | 420A - 220kW | 1NO + 1NC |
| CK13BA411 \diamond | 550A - 280kW | 1NO + 1NC |



Series CK Coils

Control Voltages:

AC ϕ = 1: 24VAC ; 2: 48VAC ; 3: 110VAC ; N: 220VAC ; U: 380VAC ; Y :500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V



| Item Code | For Contactor |
|-------------------|---|
| C12168 \diamond | CK75CA3..CK08CA3 AC Coil |
| C04255 \diamond | CK85BA3/CK07BA4 AC Coil |
| C04787 \diamond | CK08BA4 AC Coil |
| C08998 \diamond | CK13BA3/CK13BA4 AC Coil |
| C09120J | CK13BA3/CK13BA4 Control Circuit 110VAC |
| C09120N | CK13BA3/CK13BA4 Control Circuit 220VAC |
| C09120U | CK13BA3/CK13BA4 w Rectifier Bridge AC Coil Control Circuit |
| KB4E \diamond | CK75CE3..CK08CE3 AC/DC Coil, use with KM4E |
| KB5E \diamond | CK85BE3..CK95BE3 AC/DC Coil, use with KM5E |
| KB6E \diamond | CK12BE3/CK08BE4..CK95BE4..CK12BE4 AC/DC Coil, Use with KM6E |
| KB7E \diamond | CK10CE3/4..CK11CE3/4 AC/DC Coil, use with KM7E |

Series CK Electronic Modules for AC/DC Coils

Control Voltages:

AC ϕ = 1: 24VAC ; 2: 48VAC ; 3: 110VAC ; N: 220VAC ; U: 380VAC ; Y :500VAC
 AC/DC ϕ = D: 24V; J: 110V; N: 220V; U: 380V; Y: 440V

| Item Code | For Contactor |
|-----------------|------------------------------------|
| KM4E \diamond | CK75CE3..CK08CE3 |
| KM5E \diamond | CK85BE3..CK95BE3 / CK07BE4 |
| KM6E \diamond | CK12BE3..CK08BE4..CK95BE4..CK12BE4 |
| KM7E \diamond | CK10CE3/4 .. CK11CE3/4 |

Series CK Auxiliary Contacts



| Item Code | 6-digit | Mount Type | Contact |
|-----------|---------|------------|-----------|
| BCLL20 | 104706 | Side | 2NO |
| BCLL11 | 104707 | Side | 1NO & 1NC |
| BRLL20 | 104704 | Side | 2NO |
| BRLL11 | 104705 | Side | 1NO & 1NC |

Series CK Mechanical Interlocks



| Item Code | 6-digit | Mount Type | For Contactor |
|-----------|---------|------------|---------------|
| BEKH | 104763 | Horizontal | CK07B..CK12 |
| BEKVS 1 | 104786 | Vertical | CK07B..CK95 |
| BEKVA 1 | 104785 | Vertical | CK10C..CK12B |
| BEKV | 104764 | Vertical | CK13 |

Series CK Contact Kits



| Item Code | 6-digit | For use with Contactor | No of Poles |
|-----------|---------|------------------------|-------------|
| V1107BA | 113612 | CK07B | 1P |
| V1175CA | 113613 | CK75C | 1P |
| V1108CA | 113614 | CK08C | 1P |
| V1185BA | 113615 | CK85B | 1P |
| V1109BA | 113616 | CK09B | 1P |
| V1195BA | 113617 | CK95B | 1P |
| V1110CE | 113618 | CK10C | 1P |
| V1111CE | 113619 | CK11C | 1P |
| V1112BA | 113620 | CK12B | 1P |
| V1113BA | 113621 | CK13B | 1P |

Series MT Thermal Overload Relays (for use with MC0/1/2)

•IEC/EN 60947-4-1 NFC 63-650
 •IEC/EN 60947-5-1 VDE 0660
 Control Circuit up to 600VAC/250VDC
 IP20



| Item Code | 6-digit | Current Range |
|-----------|---------|---------------|
| MT03A | 101000 | 0.11 - 0.17 A |
| MT03B | 101001 | 0.17 - 0.26A |
| MT03C | 101002 | 0.26 - 0.43A |
| MT03D | 101003 | 0.43 - 0.65A |
| MT03E | 101004 | 0.65 - 1A |
| MT03F | 101005 | 0.85 - 1.3A |
| MT03G | 101006 | 1.1 - 1.6A |
| MT03H | 101007 | 1.35 - 2A |
| MT03I | 101008 | 1.7 - 2.4A |
| MT03J | 101009 | 2.2 - 3.2A |
| MT03R | 101015 | 2.5 - 4A |
| MT03K | 101010 | 3 - 4.7A |
| MT03L | 101011 | 4 - 6.3A |
| MT03M | 101012 | 5.5 - 8A |
| MT03N | 101013 | 7.5 - 10.5A |
| MT03P | 101014 | 10 - 14A |



Series MT Accessories - Bases & Contact Blocks

| Item Code | 6-digit | Description |
|-----------|---------|---------------------------------------|
| MVE0T | 101020 | Input Terminals for Separate Mounting |
| MVB0T | 101021 | Base for Separate Mounting |
| MATV10AT | 101022 | Aux. Instantaneous Contact Block |



Series RT Thermal Overload Relays (Class 10A)

•IEC/EN 60947-4-1 NFC 63-650
 •IEC/EN 60947-5-1 VDE 0660
 Control Circuit up to 600VAC/250VDC
 IP20



| Item Code | 6-digit | Current Range | Class | Use with Contactor |
|-----------|---------|---------------|-------|--------------------|
| RT1B | 113700 | 0.16 - 0.26A | 10A | CL00 - CL45 |
| RT1C | 113701 | 0.25 - 0.41A | 10A | CL00 - CL45 |
| RT1D | 113702 | 0.4 - 0.65A | 10A | CL00 - CL45 |
| RT1F | 113703 | 0.65 - 1.1A | 10A | CL00 - CL45 |
| RT1G | 113704 | 1 - 1.5A | 10A | CL00 - CL45 |
| RT1H | 113705 | 1.3 - 1.9A | 10A | CL00 - CL45 |
| RT1J | 113706 | 1.8 - 2.7A | 10A | CL00 - CL45 |
| RT1K | 113707 | 2.5 - 4A | 10A | CL00 - CL45 |
| RT1L | 113708 | 4 - 6.3A | 10A | CL00 - CL45 |
| RT1M | 113709 | 5.5 - 8.5A | 10A | CL00 - CL45 |
| RT1N | 113710 | 8 - 12A | 10A | CL00 - CL45 |
| RT1P | 113711 | 10 - 16A | 10A | CL00 - CL45 |
| RT1S | 113712 | 14.5 - 18A | 10A | CL00 - CL45 |
| RT1T | 113713 | 17.5 - 22A | 10A | CL00 - CL45 |
| RT1U | 113714 | 21 - 26A | 10A | CL00 - CL45 |
| RT1V | 113715 | 25 - 32A | 10A | CL00 - CL45 |
| RT1W | 113716 | 30 - 40A | 10A | CL00 - CL45 |

Series RT Thermal Overload Relays (Class 10)

•IEC/EN 60947-4-1 NFC 63-650
 •IEC/EN 60947-5-1 VDE 0660
 Control Circuit up to 600VAC/250VDC
 IP20



| Item Code | 6-digit | Current Range | Class | Use with Contactor |
|-----------|---------|---------------|-------|--------------------|
| RT2A | 113717 | 11.5 - 15A | 10 | CL05 - CL10 |
| RT2B | 113718 | 14.5 - 19A | 10 | CL05 - CL10 |
| RT2C | 113719 | 18.5 - 25A | 10 | CL05 - CL10 |
| RT2D | 113720 | 24 - 32A | 10 | CL05 - CL10 |
| RT2E | 113721 | 30 - 43A | 10 | CL05 - CL10 |
| RT2G | 113722 | 42 - 55A | 10 | CL05 - CL10 |
| RT2H | 113723 | 54 - 65A | 10 | CL05 - CL10 |
| RT2J | 113724 | 64 - 82A | 10 | CL05 - CL10 |
| RT2L | 113725 | 78 - 97A | 10 | CL05 - CL10 |
| RT2M | 113726 | 90 - 110A | 10 | CL05 - CL10 |



| Series RT Thermal Overload Relays (Class 30) | | | | | |
|--|---------|---------------|-------|--------------------|--|
| Item Code | 6-digit | Current Range | Class | Use with Contactor | |
| RT5LD | 113758 | 315 - 500A | 30 | CK10-CK12 | |
| RT5LE | 113759 | 430 - 700A | 30 | CK10-CK12 | |
| RT6LA | 113761 | 500 - 850A | 30 | CK13 | |



| Series RT Accessories | | | |
|-----------------------|---------|----------------------------------|--|
| Item Code | 6-digit | Current Range | |
| RTXP | 105170 | Base for Separate Mounting (RT1) | |
| RT2XP | 113764 | Base for Separate Mounting (RT2) | |



| Series RE Electronic Overload | | | | |
|--|---------|---------------|--------------------|--|
| •Class 5/10/20/30 selectable by dip switches | | | | |
| Item Code | 6-digit | Current Range | Use with Contactor | |
| RE1D | 101866 | 0.1 - 0.5A | CL00 - CL45 | |
| RE1H | 101867 | 0.4 - 2A | CL00 - CL45 | |
| RE1K | 101868 | 1.0 - 5A | CL00 - CL45 | |
| RE1M | 101869 | 1.6 - 8A | CL00 - CL45 | |
| RE1S | 101870 | 6.4 - 32A | CL00 - CL45 | |
| RE1W | 101871 | 9.0 - 45A | CL00 - CL45 | |
| RE2H | 101872 | 15 - 75A | CL05 - CL10 | |
| RE2M | 101873 | 22 - 110A | CL05 - CL10 | |
| RE3E | 101874 | 30 - 150A | CK75 - CK08 | |



| Direct-On-Line Starter Enclosures (not equipped) | | | | |
|--|---------|--------------------|--------------------|--|
| •IP65 | | | | |
| Item Code | 6-digit | Push-Buttons | Use with Contactor | |
| LG0006P1B0 | 200004 | Start/Stop + Reset | CL00,CL01,CL02 | |
| LG0406P1B0 | 116656 | Start/Stop + Reset | CL04 | |