

Motor contactor CEM

Application

Contactors are used to remotely control and protect (in combination with overload relays) electric motors and other electric loads with nominal power up to 160kW (at 400V AC3 duty).

Advantages

- Mounting on DIN rail and mounting plates
- High technical performance
- Low power loss (current heat loss)
- Protection against direct contact from front (IEC 536) IP20
- Wide range of accessories
- Surge suppressor (as option)
- Control voltage 24VAC, 48VAC, 110VAC, 230VAC, 400VAC

IE3 CONFORM



Ordering:

CEM9.01-230V-50/60Hz

I(AC3)[A]

Coil voltage

Nr. of NO Nr. of NC - Number and type of auxiliary contacts

Advantages



→ The possibility of replacing the coil to other rated voltage. (AC coil compatible only with AC contactor. DC coil compatible only with DC contactor)



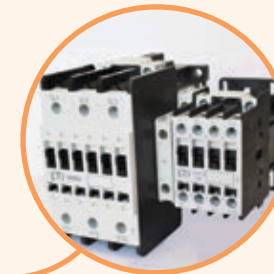
→ Surge suppressors can be mounted as close as possible to source (coil).



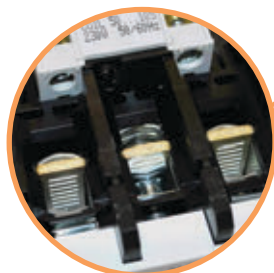
→ Lateral (side mounting) of auxiliary contacts.



→ Front mounted auxiliary contacts



→ Mechanical interlock can lock two different size contactors



→ Special designed terminals provide reliable contact with cables.

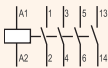


→ Up to CEM105 possible to mount on DIN rail TH35 or directly on panel.



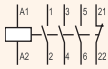
→ Overload relay (bimetal) can be mounted directly on contactor or on DIN rail TH35 by using an adapter

Motor contactor CEM9.10; 25A(AC1); 9A; 4kW(AC3)*

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
CEM9.10-24V-50/60Hz	004642120		295	1
CEM9.10-48V-50/60Hz	004642121		295	1
CEM9.10-110V-50/60Hz	004642122		295	1
CEM9.10-230V-50/60Hz	004642123		295	1
CEM9.10-400V-50/60Hz	004642124		295	1
CEM9.10-24V DC	004642220		510	1
CEM9.10-220V DC	004642221		510	1

* Auxiliary contact 1NO integrated

Motor contactor CEM9.01; 25A(AC1); 9A; 4kW(AC3)*

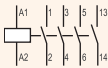
Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
CEM9.01-24V-50/60Hz	004642110		295	1
CEM9.01-48V-50/60Hz	004642111		295	1
CEM9.01-110V-50/60Hz	004642112		295	1
CEM9.01-230V-50/60Hz	004642113		295	1
CEM9.01-400V-50/60Hz	004642114		295	1
CEM9.01-24V DC	004642210		510	1
CEM9.01-220V DC	004642211		510	1

* Auxiliary contact 1NC integrated



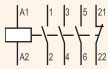
For auxiliary contact blocks, see page 230

Motor contactor CEM12.10; 25A(AC1); 12A; 5.5kW(AC3)*

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
CEM12.10-24V-50/60Hz	004643120		295	1
CEM12.10-48V-50/60Hz	004643121		295	1
CEM12.10-110V-50/60Hz	004643122		295	1
CEM12.10-230V-50/60Hz	004643123		295	1
CEM12.10-400V-50/60Hz	004643124		295	1
CEM12.10-24V DC	004643220		510	1
CEM12.10-220V DC	004643221		510	1

* Auxiliary contact 1NO integrated

**Motor contactor CEM12.01; 25A(AC1); 12A; 5.5kW(AC3)***

Type	Code No.	Wiring diagram	Weight [g]	Packaging [pcs]
CEM12.01-24V-50/60Hz	004643110		295	1
CEM12.01-48V-50/60Hz	004643111		295	1
CEM12.01-110V-50/60Hz	004643112		295	1
CEM12.01-230V-50/60Hz	004643113		295	1
CEM12.01-400V-50/60Hz	004643114		295	1
CEM12.01-24V DC	004643210		510	1
CEM12.01-220V DC	004643211		510	1

* Auxiliary contact 1NC integrated

Overload relay RE117.1D

Type	Code No.	Current setting range [A]	For use with	Weight [g]	Packaging [pcs]
RE117.1D-97	004645421	75-97	CEM95... CEM105	520	1
RE117.1D-112	004645422	90-112			

Overload relay RE117.2D

Type	Code No.	Current setting range [A]	For use with	Weight [g]	Packaging [pcs]
RE117.2D-97	004646421	75-97	CEM112(E)	550	1
RE117.2D-112	004646422	90-112			

Overload relay RE317.2D

Type	Code No.	Current setting range [A]	For use with	Weight [g]	Packaging [pcs]
RE317D-150	004647423	100-150	CEM150(E) ... CEM250(E)	900	1
RE317D-215	004647424	140-215			
RE317D-310	004647425	200-310			

Overload relay mounting kits for rails TH35

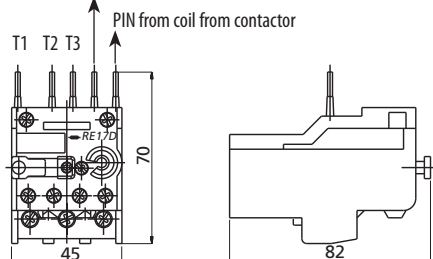
Type	Code No.	For use with	Weight [g]	Packaging [pcs]
BF27D	004641901	RE27D	50	1
BF67.1D	004641902	RE67.1,	95	1
BF67.2D	004641904	RE67.2	95	1
BF117D	004641903	RE117.1D	110	1



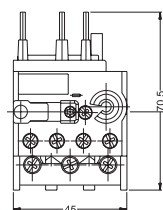
Overload relay

- phase-failure sensitivity to IEC/EN 60947-4-1, DIN VDE 0660T.102
- tripping class 10 according to standard 60947-4-1
- temperature compensation
- auxiliary contact 1NO/1NC
- hand/auto/reset

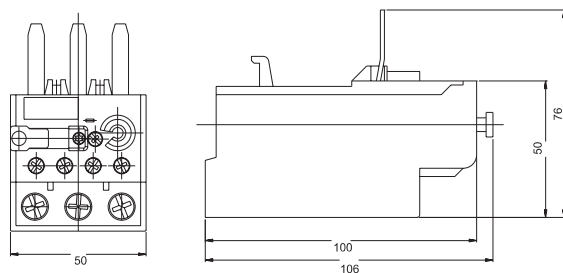
PIN from auxiliary contactor



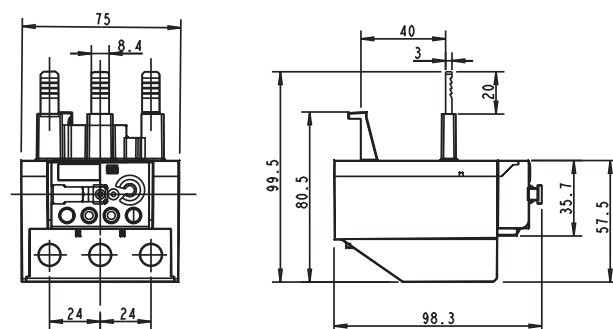
RE17D



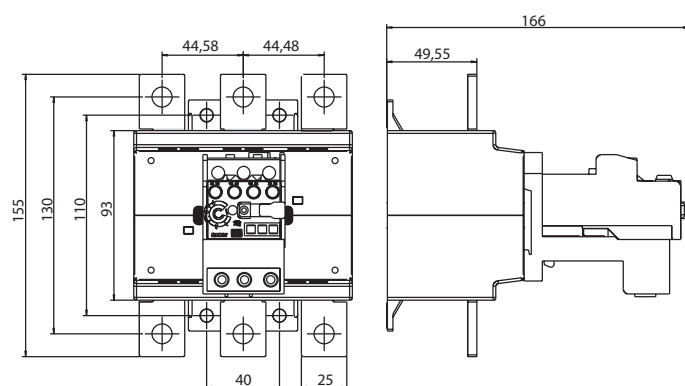
RE27D



RE67D



RE117.1D



RE317D

overload relay current setting	recommended fuse gG (A)
0,28-0,4	2
0,4-0,63	2
0,56-0,8	2
0,8-1,2	4
1,2-1,8	6
1,8-2,8	6
2,8-4	10
4-6,3	16
5,6-8	20
7-10	25
8-12,5	25
10-15	35
11-17	35
15-23	50
22-32	63
25-40	80
32-50	100
40-57	100
50-63	100
57-70	125
63-80	125
75-97	200
90-112	250
100-150	315
140-215	355
200-310	500