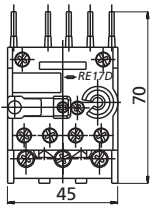
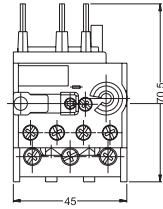
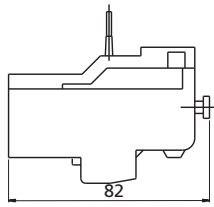


# Overload relay

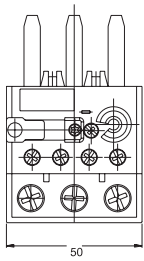
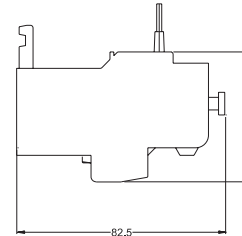
- phase-failure sensitivity to IEC/EN 60947-4-1, DIN VDE 0660T.102
- tripping class 10 according to standard 60947-4-1
- temperature compensation
- auxiliary contact 1NO/1NC
- hand/auto/reset



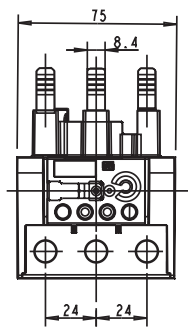
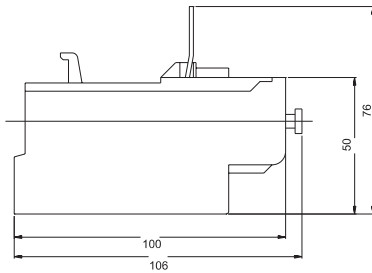
RE17D



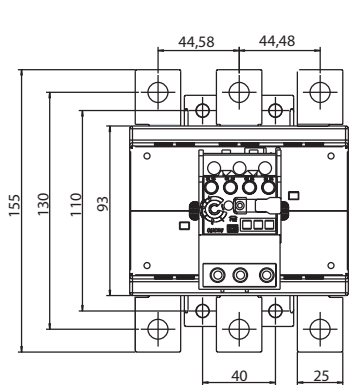
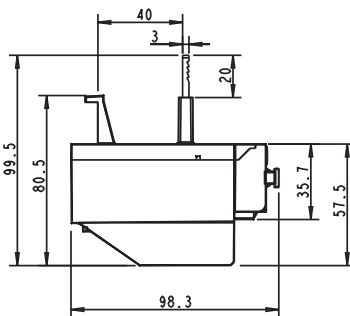
RE27D



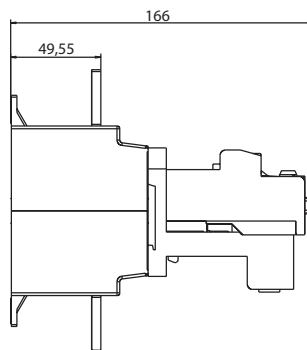
RE67D



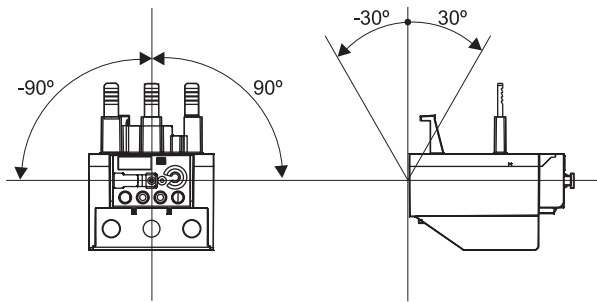
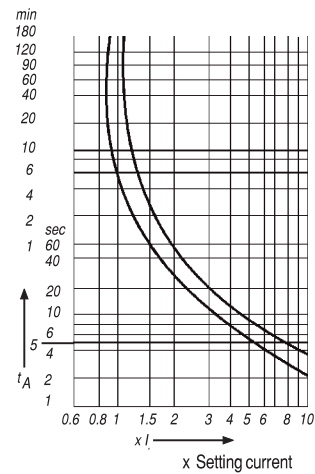
RE117.1D



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

**Mounting position for RE17D to RE117D**

**RE...D Tripping characteristic**


These tripping characteristics show mean values of the tolerance range at 20°C ambient temperature starting from cold. They show the tripping times in relation to the response current. At operational temperature, the tripping time of the overload relay drops to approximately 25 % of the shown.

<b>Overload relay</b>						
Type		RE17D	RE27D	RE67D	RE117D	RE317D
<b>General technical data</b>						
Standards		IEC/EN 60 947, DIN VDE 0660			IEC/EN 60 947, DIN VDE 0660	
Current setting	(A)	0,28 - 17	0,28 - 32	25 - 80	75 - 112	100 - 310
Tripping Class acc. o IEC 60947-4-1		10				
Temperature compensation		continuous				
<b>Rated insulation voltage U<sub>i</sub></b>						
acc. IEC/EN 60 947/DIN VDE 0660	(V)	690				
Rated impulse withstand voltage U <sub>imp</sub>	(kV)	6				
Rated operational frequency	(Hz)	0 - 400				
Degree of protection		IP 20				
Protection against direct contact from the front when actuated by a perpendicular test finger (IEC 536)		finger and back-of-hand proof				
Ambient temperature		-25 ... +60				
Operating temperature	°C	-25 ... +60				
Storage temperature	°C	-40 ... +70				
<b>Current heat loss</b>						
lower value of setting rang	(W)	0,9	0,9	1,5	2,3	1
maximum setting	(W)	1,4	1,7	4,7	4,7	1,9
<b>Terminal capacity</b>						
solid	mm <sup>2</sup>	2x 1,5 ... 6		1x 6 ...35	1x 25 ... 35	-
flexible without cable	mm <sup>2</sup>	2x 1,5 ... 6		1x 6 ...35	1x 25 ... 35	-
flexible with cable lug	mm <sup>2</sup>	2x 1,5 ... 6		1x 6 ...35	1x 25 ... 35	-
stranded	mm <sup>2</sup>	2x 1,5 ... 10		1x 6 ...35	1x 25 ... 35	-
bar	mm	-		-	-	20 x 4
Tightening torque	Nm	1,4 ... 2,3		4 ... 6	4... 6	14 ... 26
<b>Rated insulation voltage U<sub>i</sub></b>						
acc. IEC/EN 60 947/DIN VDE 0660	(V)	690				
<b>Rated operational current</b>						
AC-15	120 V Ie	(A)	3			
	240 V Ie	(A)	2			
	415 V Ie	(A)	1,5			
	500 V Ie	(A)	0,5			
DC-13	24 VDC Ie	(A)	1			
	60 VDC Ie	(A)	0,5			
	110 VDC Ie	(A)	0,25			
	220 VDC Ie	(A)	0,1			

**Minimum fuse size for the protection of three-phase motors.  
The maximum size is governed by the requirements of the associated switchgear or overload relay.**

Motor rating			230 V			400 V			500 V			690 V		
[kW]	cosφ	η(%)	Rated motor current [A]	Fuse		Rated motor current [A]	Fuse		Rated motor current [A]	Fuse		Rated motor current [A]	Fuse	
				Starting direct [A]	Y/Δ [A]		Starting direct [A]	Y/Δ [A]		Starting direct [A]	Y/Δ [A]		Starting direct [A]	Y/Δ [A]
0,06	0,7	58	0,37	2	-	0,21	2	-	0,17	2	-	0,12	2	-
0,09	0,7	60	0,54	2	-	0,31	2	-	0,25	2	-	0,18	2	-
0,12	0,7	60	0,72	4	2	0,41	2	-	0,3	2	-	0,24	2	-
0,18	0,7	62	1,04	4	2	0,6	2	-	0,48	2	-	0,35	2	-
0,25	0,7	62	1,4	4	2	0,8	4	2	0,7	2	-	0,5	2	-
0,37	0,72	66	2	6	4	1,1	4	2	0,9	2	2	0,7	2	-
0,55	0,75	69	2,7	10	4	1,5	4	2	1,2	4	2	0,9	4	2
0,75	0,79	71	3,2	10	4	1,9	6	4	1,5	4	2	1,1	4	2
1,1	0,81	74	4,6	10	6	2,6	6	4	2,1	6	4	1,5	4	2
1,5	0,81	74	6,3	16	10	3,6	6	4	2,9	6	4	2,1	6	4
2,2	0,81	78	8,7	20	10	5	10	6	4	10	4	2,9	10	4
3	0,82	80	11,5	25	16	6,6	16	10	5,3	16	6	3,8	10	4
4	0,82	83	14,8	32	16	8,5	20	10	6,8	16	10	4,9	16	6
5,5	0,82	86	19,6	32	25	11,3	25	16	9	20	16	6,5	16	10
7,5	0,82	87	26,4	50	32	15,2	32	16	21,1	25	16	8,8	20	10
11	0,84	87	38	80	40	21,7	40	25	17,4	32	20	12,6	25	16
15	0,84	88	51	100	63	29,3	63	32	23,4	50	25	17	32	20
18,5	0,84	88	63	125	80	36	63	40	28,9	50	32	20,9	32	25
22	0,84	92	71	125	80	41	80	50	33	63	32	23,8	50	25
30	0,85	92	96	200	100	55	100	63	44	80	50	32	63	32
37	0,86	92	117	200	125	68	125	80	54	100	63	39	80	50
45	0,86	93	141	250	160	81	160	100	65	125	80	47	80	63
55	0,86	93	173	250	200	99	200	125	79	160	80	58	100	63
75	0,86	94	233	315	250	134	200	160	107	200	125	78	160	100
90	0,86	94	279	400	315	161	250	200	129	200	160	93	160	100
110	0,86	94	342	500	400	196	315	200	157	250	160	114	200	125
132	0,87	95	401	630	500	231	400	250	184	250	200	134	250	160
160	0,87	95	486	630	630	279	400	315	224	315	250	162	250	200
200	0,87	95	607	800	630	349	500	400	279	400	315	202	315	250
250	0,87	90	-	-	-	437	630	500	349	500	400	253	400	315
315	0,87	96	-	-	-	544	800	630	436	630	500	316	500	400
400	0,88	96	-	-	-	683	1000	800	547	800	630	396	630	400
450	0,88	96	-	-	-	769	100	800	615	800	630	446	630	630
500	0,88	97	-	-	-	-	-	-	-	-	-	491	630	630
560	0,88	97	-	-	-	-	-	-	-	-	-	550	800	630
630	0,88	97	-	-	-	-	-	-	-	-	-	618	800	630

The rated motor currents apply to normal, internal-ventilated and enclosed fan-cooled three-phase motors at 1500 rpm.

D.O.L. Starting: Maximum starting current 6 x rated motor current. Maximum starting time 5 seconds.

Y/D-starting: Maximum starting current 2 x rated motor current. Maximum starting time 15 seconds.

Set the overload relay in the phase lead to 0,58 x rated motor current.

Rated fuse currents for Y/D-starting also apply to three-phase motors with slip-ring rotors.

Use a larger fuse if the rated current or starting current is higher and/or if the starting time is longer.

The table applies to "slow" or "gL" fuse (VDE 0636)

By NH fuse with aM characteristics, select fuse size to match rated current.