

Modular Contactors and Switches

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Modular Contactors

Rated Current	Heating Power AC1 at	Wiring Diagram	Type	coil voltage	Pack pcs.	Weight kg/pc.
AC1	1AC 3 AC		24 230 ↓	24V 50/60Hz 220-240V 50Hz		
400V	230V 400V					
A	kW kW					

Two-pole 1 module (17,5mm)



20	4,6	-		R20-20 24	12	0,13
20	4,6	-		R20-20 230	12	0,13
20	4,6	-		R20-11 24	12	0,13
20	4,6	-		R20-11 230	12	0,13
20	4,6	-		R20-02 24	12	0,13
20	4,6	-		R20-02 230	12	0,13

Four-pole 2 modules (35mm)¹⁾



25	5,7	17		R25-40 24	6	0,22
25	5,7	17		R25-40 230	6	0,22
25	5,7	17		R25-31 24	6	0,22
25	5,7	17		R25-31 230	6	0,22
25	5,7	17		R25-13 24	6	0,22
25	5,7	17		R25-13 230	6	0,22
25	5,7	-		R25-22 24	6	0,22
25	5,7	-		R25-22 230	6	0,22
25	5,7	17		R25-04 24	6	0,22
25	5,7	17		R25-04 230	6	0,22

Four-pole 3 modules (52,5mm)¹⁾



40	9	27,5		R40-40 24	4	0,36
40	9	27,5		R40-40 230	4	0,36
40	9	27,5		R40-31 24	4	0,36
40	9	27,5		R40-31 230	4	0,36
40	9	-		R40-22 24	4	0,36
40	9	-		R40-22 230	4	0,36
40	9	27,5		R40-04 24	4	0,36
40	9	27,5		R40-04 230	4	0,36



63	14,3	43		R63-40 24	4	0,36
63	14,3	43		R63-40 230	4	0,36
63	14,3	43		R63-31 24	4	0,36
63	14,3	43		R63-31 230	4	0,36
63	14,3	-		R63-22 24	4	0,36
63	14,3	-		R63-22 230	4	0,36
63	14,3	43		R63-04 24	4	0,36
63	14,3	43		R63-04 230	4	0,36

1) Sealable with Sealing Cover (see page 3)

Modular Contactors



Rated Operational Current			Wiring Diagram	Type	Pack	Weight
AC15	AC15	AC1				
230V	400V	690V				
A	A	A			pcs.	kg/pc.

Auxiliary Contact Block ½ module (8,8mm) for contactor R25, R40, R63 (max. 1pc.)						
3	2	10		RH11	3	0,026

Description	for contactors	Type	Pack pcs.	Weight kg/pc.
Accessories				
RC-unit for 12V to 250V AC	2x R20.. to R63..	RC-R 230	1	0,05
Sealing cover	R25..	P721	10	0,002
Sealing cover	R40..., R63..	P690	10	0,003
Spacing piece ½ module (8,8mm) for ambient temperature >40°C	R20.. to R63..	P730	10	0,012

Safety Switches and Switch Disconnectors

AC21 690V A	AC23 3x400V kW	Escutch. Wiring Diagram Plate	Type	Pack pcs.	Weight kg/pc.
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Main Switches Emergency-Stop, 3-pole with padlock device

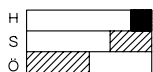


20	5,5	48x45	L1 L2 L3	LTS20 SMAHN1 A3	1	0,15
25	7,5	48x45		LTS25 SMAHN1 A3	1	0,15
32	11	48x45	T1 T2 T3	LTS32 SMAHN1 A3	1	0,15
40	15	48x45		LTS40 SMAHN1 A3	1	0,15
63	22	48x45		LTS63 SMAHN1 A3	1	0,18
80	22	48x45		LTS80 SMAHN1 A3	1	0,18
80	30	70x45		LT80 SMAHN1 T300	1	0,37
100	37	70x45		LT100 SMAHN1 T300	1	0,37

Main Switches Emergency-Stop, 4-pole with padlock device



20	5,5	48x45	L1 L2 L3 N	LTS20 SMAHN1 A4	1	0,16
25	7,5	48x45		LTS25 SMAHN1 A4	1	0,16
32	11	48x45	T1 T2 T3 N1	LTS32 SMAHN1 A4	1	0,16
40	15	48x45		LTS40 SMAHN1 A4	1	0,16
63	22	48x45		LTS63 SMAHN1 A4	1	0,21
80	22	48x45		LTS80 SMAHN1 A4	1	0,21
80	30	70x45		LT80 SMAHN1 T400	1	0,47
100	37	70x45		LT100 SMAHN1 T400	1	0,47



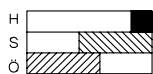
Aux. contact block 1NO + 1NC (max. 1pc.)

for LTS20... LTS80...



LH11

1 0,01



Aux. contact block 1NO + 1NC overlapping (max. 1pc.)

for LTS20... LTS80...



LH11X

1 0,01



4th Pole for switches 3-pole

for LTS63 ... , LTS80 ...



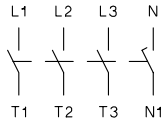
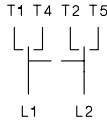
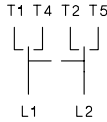
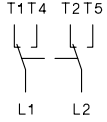
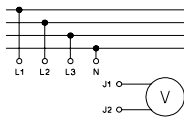
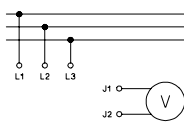
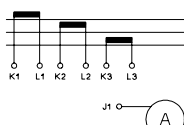
N80V

1 0,04

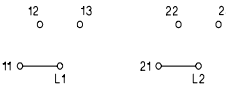
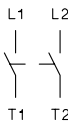
 Number of padlocks

Control Switches for Installation Boards, Depth 60mm



	AC21 I_{th} A	Motor 3x400V kW	Wiring Diagram	Type	Pack pcs.	Weight kg/pc.
On-Off-Switches						
1-pole	20A	-		M10H SMA A1	1	0,10
2-pole	20A	-		M10H SMA A2	1	0,11
3-pole	20A	5,5kW		M10H SMA A3	1	0,12
4-pole	20A	5,5kW		M10H SMA A4	1	0,13
Changeover Switches						
1-pole	20A	-		M10H SMA U1	1	0,11
2-pole	20A	-		M10H SMA U2	1	0,13
3-pole	20A	5,5kW		M10H SMA U3	1	0,15
Changeover Switches						
1-pole	20A	-		M10H SMA U1+009	1	0,11
2-pole	20A	-		M10H SMA U2+009	1	0,13
Changeover Switches without 0						
1-pole	20A	-		M10H SMA W1	1	0,11
2-pole	20A	-		M10H SMA W2	1	0,13
Start Switch						
1-pole	20A	-		M10H SMA SE	1	0,10
Voltmeter Selector Switch 3 line and 3 phase voltages						
	20A	-		M10H SMA V1	1	0,15
Voltmeter Selector Switch 3 line voltages						
	20A	-		M10H SMA V3	1	0,15
Ammeter Selector Switch						
1-pole	20A	-		M10H SMA M31	1	0,15

Control Switches for Installation Boards, Depth 60mm

	AC21 I_{th} A	Motor 3x400V kW	Wiring Diagram	Type	Pack pcs.	Weight kg/pc.
Step Switches 1-pole without 0						
 	3 Steps	20A -		M10H SMA ST31	1	0,10
	4 Steps	20A		M10H SMA ST41	1	0,12
Step Switches 2-pole without 0						
	3 Steps	20A -		M10H SMA ST32	1	0,11
Step Switches 1-pole with 0						
	2 Steps	20A -		M10H SMA ST021	1	0,11
	3 Steps	20A -		M10H SMA ST031	1	0,13
On-Off-Switches keyoperated Lock Willenhal FT101						
	1-pole	20A -		M10H SMA A1+SA	1	0,11
	2-pole	20A -		M10H SMA A2+SA	1	0,13

Modular Contactors

Switching of lamps

Lamp Type	Power W	Current A	Capacitors µF	Max. lamps per pole at 230V 50Hz and max. 60°C				
				R20..	R25..	R40..	R63..	K1R
Incandescent lamps	60	0,27	-	22	28	58	85	28
	100	0,45	-	13	17	35	51	17
	200	0,91	-	7	8	17	25	8
	300	1,36	-	4	5	11	16	5
	500	2,27	-	3	3	7	10	3
	1000	4,5	-	1	1	3	5	1
Fluorescent lamps uncompensated or serial compensated	11	0,16	-	60	75	210	310	60
	18	0,37	2,7	25	30	90	140	25
	24	0,35	2,5	25	30	90	140	25
	36	0,43	3,4	20	25	70	140	20
	58	0,67	5,3	14	17	45	70	14
	65	0,67	5,3	13	16	40	65	13
	85	0,8	-	11	14	35	60	11
Fluorescent lamps dual-connection	11	0,07	-	2 x 100	2 x 110	2 x 220	2 x 250	2 x 100
	18	0,11	-	2 x 50	2 x 55	2 x 130	2 x 200	2 x 50
	24	0,14	-	2 x 40	2 x 44	2 x 110	2 x 160	2 x 40
	36	0,22	-	2 x 30	2 x 33	2 x 70	2 x 100	2 x 30
	58	0,35	-	2 x 20	2 x 22	2 x 45	2 x 70	2 x 20
	65	0,35	-	2 x 15	2 x 16	2 x 40	2 x 60	2 x 15
	85	0,47	-	2 x 10	2 x 11	2 x 30	2 x 40	2 x 10
Fluorescent lamps parallel compensated	11	0,16	2,0	30	30	100	140	30
	18	0,37	2,0	20	20	70	90	20
	24	0,35	3,0	15	15	55	75	15
	36	0,43	4,5	10	10	38	51	10
	58	0,67	7,0	6	6	25	30	6
	65	0,67	7,0	5	5	24	28	5
	85	0,8	8,0	4	4	18	23	4
Fluorescent lamps with serial electronic	18	0,09	-	40	40	100	150	40
	36	0,16	-	20	20	50	75	20
	58	0,25	-	15	15	30	55	15
	2 x 18	0,17	-	2 x 20	2 x 20	2 x 50	2 x 60	2 x 20
	2 x 36	0,32	-	2 x 10	2 x 10	2 x 25	2 x 30	2 x 10
	2 x 58	0,49	-	2 x 7	2 x 7	2 x 15	2 x 20	2 x 7
Transformers for metal halid low voltage lamps	20	-	-	40	52	110	174	40
	50	-	-	20	24	50	80	20
	75	-	-	13	16	35	54	13
	100	-	-	10	12	27	43	10
	150	-	-	7	9	19	29	7
	200	-	-	5	5	14	23	5
	300	-	-	3	4	9	14	3
Mercury-vapour lamps (high-pressure lamps), uncompensated e. g. HQL, HPL	50	0,61	-	16	18	38	55	16
	80	0,8	-	12	14	28	40	12
	125	1,15	-	8	9	20	28	8
	250	2,15	-	4	5	11	15	4
	400	3,25	-	3	4	7	10	3
	700	5,4	-	1	2	4	6	1
	1000	7,5	-	1	1	3	4	1
Mercury-vapour lamps (high-pressure lamps), compensated e. g. HQL, HPL	50	0,28	7	7	7	32	46	7
	80	0,41	8	5	5	25	35	5
	125	0,65	10	3	3	16	22	3
	250	1,22	18	2	2	8	12	2
	400	1,95	25	1	1	5	7	1
	700	3,45	45	1	1	3	4	1
	1000	4,8	60	-	-	2	3	-

Modular Contactors

Switching of lamps

Lamp Type	Power W	Current A	Capacitors mF	Max. lamps per pole at 230V 50Hz and max. 60°C				
				R20..	R25..	R40..	R63..	K1R
Metal halide lamps uncompensated e. g. HQI, HPI, CDM	35	0,53	-	22	24	45	65	22
	70	1	-	12	14	24	35	12
	150	1,8	-	6	8	13	18	6
	250	3	-	4	5	8	12	4
	400	3,5	-	3	4	6	10	3
	1000	9,5	-	1	1	2	4	1
	2000	16,5	-	-	-	1	2	-
	400V per pole			-	-	1	2	-
	2000	10,5	-	-	-	-	1	-
	3500	18	-	-	-	-	-	-
	35	0,25	6	8	8	38	50	8
	70	0,45	12	4	4	20	28	4
Metal halide lamps compensated e. g. HQI, HPI, CDM	150	0,75	20	2	2	12	17	2
	250	1,5	33	1	1	7	10	1
	400	2,1	35	1	1	5	7	1
	1000	5,8	95	-	-	2	3	-
	2000	11,5	148	-	-	1	1	-
	400V pro Pol			-	-	1	2	-
	2000	6,6	58	-	-	-	1	-
	3500	11,6	100	-	-	-	-	-
	20	0,1	integrated	9	9	18	20	9
	35	0,2	integrated	6	6	11	13	6
	70	0,36	integrated	5	5	10	12	5
	150	0,7	integrated	4	4	8	10	4
Sodium-vapour lamps (low pressure lamps), uncompensated	35	1,5	-	7	9	22	30	7
	55	1,5	-	7	9	22	30	7
	90	2,4	-	4	6	13	19	4
	135	3,5	-	3	4	10	13	3
	150	3,3	-	3	4	10	13	3
	180	3,3	-	3	4	10	13	3
	200	3,3	-	3	4	10	13	3
	200	3,3	-	3	4	10	13	3
Sodium-vapour lamps (low pressure lamps), compensated	35	0,31	20	3	3	12	16	3
	55	0,42	20	2	2	8	14	2
	90	0,63	30	1	1	5	9	1
	135	0,94	45	1	1	3	6	1
	150	1	40	1	1	3	6	1
	180	1,16	40	1	1	2	5	1
	200	1,32	25	-	-	2	4	-
	200	1,32	25	-	-	2	4	-
Sodium-vapour lamps (high pressure lamps), uncompensated	150	1,8	-	5	6	11	22	5
	250	3	-	4	5	7	13	4
	330	3,7	-	3	4	6	10	3
	400	4,7	-	2	2	5	8	2
	1000	10,3	-	1	1	2	4	1
	1000	10,3	-	1	1	2	4	1
Sodium-vapour lamps (high pressure lamps), compensated	150	0,83	20	2	2	7	14	2
	250	1,5	33	1	1	4	8	1
	330	2	40	1	1	3	6	1
	400	2,4	48	1	1	2	5	1
	1000	6,3	106	-	-	1	2	-
	1000	6,3	106	-	-	1	2	-
Sodium-vapour lamps (high pressure lamps) with serial electronic (e. g.: PCI) 50-125 x I _{nLampe} for 0,6ms	20	0,1	integrated	9	9	18	20	9
	35	0,2	integrated	6	6	11	13	6
	70	0,36	integrated	5	5	10	12	5
	150	0,7	integrated	4	4	8	10	4

Modular Contactors

Data according to IEC 947-4-1, IEC 947-5-1, VDE 0660, EN 60947-4-1, EN 60947-5-1

Type		R20..	R25..	R40..	R63..	RH11
Main Contacts						
Rated insulation voltage U_i	V AC	440 ²⁾	440 ²⁾	440 ²⁾	440 ²⁾	440 ²⁾
Rated operation voltage U_e	V AC	250	440	440	440	440
Frequency of operations $z_{AC1, AC3}$	1/h	300	300	600	600	600
Mechanical life	S x 10 ⁶	1	1	1	1	1
Utilization category AC1						
Rated operational current I_e ($=I_n$) open at 60°C	A	20	25	40	63	-
Contact life	S x 10 ⁶	0,1	0,1	0,1	0,1	-
Minimum Switch Voltage	V/mA	24/100	24/100	24/100	24/100	17/5
Short time current 10s-current	A	72	72	216	240	-
Power loss per pole at $I_e/AC1$	W	2	2	3	7	0,5
Utilization category AC3						
Switching of three-phase motors						
Rated operational current I_e	A	-	9	27	30	-
Rated operational power of three-phase motors 220V	kW	-	2,2	7,5	8	-
50-60Hz 230-240V	kW	1,1 ⁴⁾	2,5	8	8,5	-
380-415V	kW	-	4	12,5	15	-
Contact life	S x 10 ⁶	-	0,15	0,15	0,15	-
Power consumption of coils						
AC operated inrush	VA	7 - 9	14 - 18	33 - 45	33 - 45	-
sealed	VA	2,2 - 4,2	4,4 - 8,4	7	7	-
	W	0,8 - 1,6	1,6 - 3,2	2,6	2,6	-
Operation range of coils						
in multiples of control voltage U_s (-40 to +40°C)		0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	-
Short circuit protection						
Coordination-type "1" according to IEC 947-4-1 max. fuse size	gL (gG) A	35	35	63	80	-
Switching time at control voltage $U_s \pm 10\%$						
make time	ms	7 - 16	9 - 15	11 - 15	11 - 15	-
release time	ms	6 - 12	4 - 8	6 - 13	6 - 13	-
arc duration	ms	10 - 15	10 - 15	10 - 15	10 - 15	-
Cable cross-sections						
Main connector solid or stranded	mm ²	1,5 - 10	1,5 - 10	2,5 - 25	2,5 - 25	0,5 - 2,5 ³⁾
flexible	mm ²	1,5 - 6	1,5 - 6	2,5 - 16	2,5 - 16	0,5 - 2,5 ³⁾
flexible with multicore cable end	mm ²	1,5 - 6	1,5 - 6	2,5 - 16	2,5 - 16	0,5 - 1,5
Clamps per pole		1	1	1	1	2
Magnetic coil solid or stranded	mm ²	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	0,75 - 2,5	-
flexible	mm ²	0,5 - 2,5	0,5 - 2,5	0,5 - 2,5	0,5 - 2,5	-
flexible with multicore cable end	mm ²	0,5 - 1,5	0,5 - 1,5	0,5 - 1,5	0,5 - 1,5	-
Clamps per pole		1	1	1	1	-
Auxiliary Contacts						
Rated insulation voltage U_i ¹⁾	V AC	-	-	-	-	440 ²⁾
Thermal rated current I_{th} 40°C	A	-	-	-	-	10
Ambient temperature 60°C	A	-	-	-	-	6
Utilization category AC15						
Rated operational current I_e 220-240V	A	-	-	-	-	3
380-415V	A	-	-	-	-	2
440V	A	-	-	-	-	1,6
Utilization category DC13						
Rated operational current I_e 24-60V	A	-	-	-	-	2
110V	A	-	-	-	-	0,4
per pole 220V	A	-	-	-	-	0,1
Short circuit protection						
short-circuit current 1kA, contact welding not accepted max. fuse size	gL (gG) A	-	-	-	-	10

1) Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): $U_{imp} = 8kV$.

2) Suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): $U_{imp} = 4kV$.

3) Maximum cable cross-section with prepared conductor

4) AC5b motor 2-pole 230V 1,1kW

Switch Disconnectors, Switches

Technical Data according to IEC 947-3, IEC 947-5-1, VDE 0660, EN 60947-3, EN 60947-5-1

Type		LTS20	LTS25	LTS32	LTS40	LTS63	LTS80	LT80	LT100		M10H
Main contacts											
Rated thermal current I_{th} open	A	20	25	32	40	63	80	80	100		20
Rated thermal current I_{the} enclosed	A	20	25	32	40	63	80	80/70 ²⁾	100/80 ²⁾		20
Rated insulation voltage U_i ¹⁾	V	690	690	690	690	690	690	690	690		690
Rated operational current I_e AC21A	A	20	25	32	40	63	80	80	100		20
Making capacity I_{eff} 3x380-440V	A	160	190	220	300	370	440	600	725		160
Breaking capacity 3x220-240V	A	160	180	200	250	330	380	560	700		160
3x380-440V	A	160	180	200	250	330	380	560	650		160
3x660-690V	A	80	110	140	170	190	220	200	280		80
Disconnection property performed up to	V	690	690	690	690	690	690	690	690		690
Motor Switch AC3 3x400V	A	9	12	16	23	30	37	45	60		12
Motor Switch AC3 3x220-240V	kW	2,2	3	5,5	7,5	11	11	15	18,5		3
Direct switching of single motors 3x380-440V	kW	4	5,5	7,5	11	15	18,5	22	30		5,5
3x660-690V	kW	4	5,5	7,5	11	15	15	18,5	22		5,5
Main Switch AC23 3x400V	A	12	16	23	30	45	45	60	72		15
Motor Switch, AC23A, 3x220-240V	kW	3	4	5,5	7,5	15	15	18,5	22		4
Main Switch, AC23B 3x380-440V	kW	5,5	7,5	11	15	22	22	30	37		7,5
Safety Switch 3x660-690V	kW	5,5	7,5	11	15	18,5	18,5	22	30		7,5
Rated conditional short-circuit current	kA _{eff}	10	10	10	10	10	10	25	25		10
Max. fuse size gL (gG)	A	25	35	40	50	63	80	80	100		20
Mechanical life	x10 ³	200	200	200	200	100	100	100	100		200
Rated short-time withstand current (1sec. current)	A	250	300	400	500	600	850	1600	1850		2500
Maximum cable cross sections											
solid	mm ²	10	10	10	10	25	25	35	35		2,5
	AWG	8	8	8	8	4	4	2	2		12
flexible (+ multicore cable end)	mm ²	6	6	6	6	16	16	25	25		2,5
	AWG	10	10	10	10	6	6	5	5		14
Size of terminal screw	M3,5	M3,5	M3,5	M3,5	M5	M5	-	-	-		M3,5
Tightening torque	Nm	0,8-1,7	0,8-1,7	0,8-1,7	0,8-1,7	2-4	2-4	3	3		0,8-1,4
	lb.inch	7-15	7-15	7-15	7-15	18-35	18-35	26	26		7-15
Auxiliary contacts											
Rated insulation voltage U_i ¹⁾	V	690	690	690	690	690	690	690	690		-
Rated thermal current I_{th} , I_{the}	A	10	10	10	10	10	10	16	16		-
Switching capacity AC15 220-240V	A	2,5	2,5	2,5	2,5	2,5	2,5	6	6		-
AC15 380-440V	A	1,5	1,5	1,5	1,5	1,5	1,5	3	3		-
Rated conditional short-circuit current	kA _{eff}	3	3	3	3	3	3	3	3		-
Max. short circuit protection gL (gG)	A	10	10	10	10	10	10	16	16		-
Maximum cable cross sections											
solid	mm ²	2,5	2,5	2,5	2,5	2,5	2,5	4	4		-
	AWG	12	12	12	12	12	12	12	12		-
flexible (+ multicore cable end)	mm ²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5		-
	AWG	14	14	14	14	14	14	14	14		-

Data according to UL und cUL

Type		LTS20	LTS25	LTS32	LTS40	LTS63	LTS80	LT80	LT100		M10H
Rated voltage	V	600	600	600	600	600	600	600	600		600
Ampere-Rating "General use"	A	20	25	32	40	63	80	80	100		20
DOL-Rating 3-phase 110-120V	HP	0,75	1	1,5	2	3	5	7,5	10		1,5
220-240V	HP	1,5	2	3	5	7,5	10	20	25		3
440-480V	HP	3	5	7,5	10	15	20	40	50		5
550-600V	HP	5	7,5	10	15	20	25	50	50		7,5
DOL-Rating 1-phase 110-120V	HP	0,3	0,5	0,5	1	1,5	2	3	5		0,5
200-208V	HP	0,5	0,75	1	2	2	3	-	-		1
220-240V	HP	0,7	1	1,5	3	3	5	10	15		1,5
Fuse size (RK5) Manual Motor Controller	A	40	50	50	70	90	110	200 ⁴⁾	250 ⁴⁾		40
5kA / 600V Motor Disconnect	A	40	50	50	50	70	70	200 ⁴⁾	250 ⁴⁾		-

1) suitable for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry): Uimp = 6kV. Data for other conditions on request

2) the values after the slash are valid for switches 6-pole or more

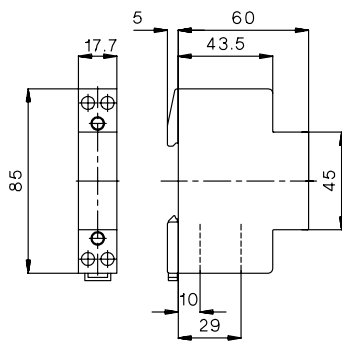
3) Suitable for no load applications(AC20A) above 690V

4) Fuse RK1 / 10kA / 600V

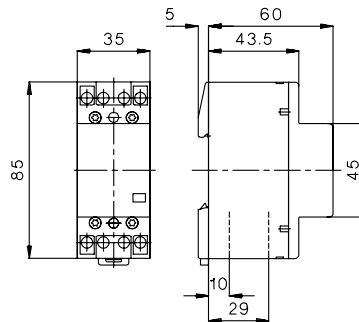


Dimensions

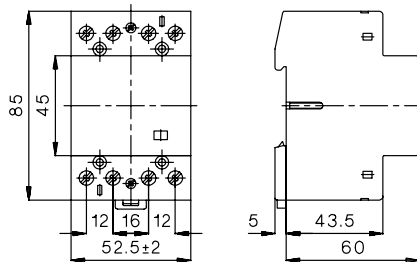
**R20-..
RC-R 230**



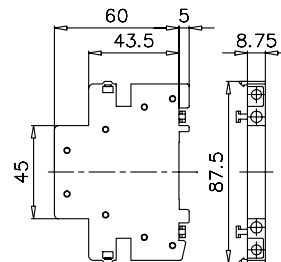
R25-..



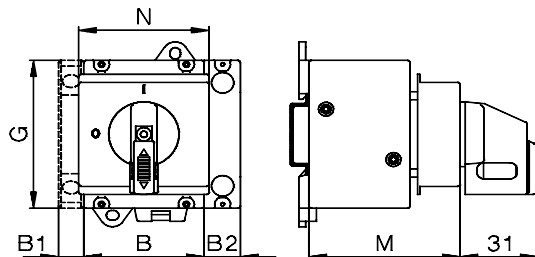
**R40-..
R63-..**



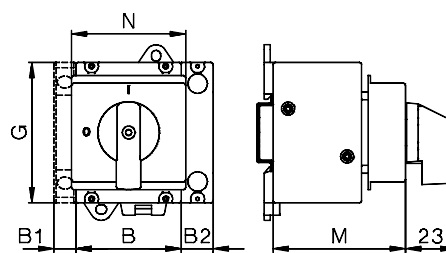
Aux. contact block RH11



**Main Switch LT.. SMAHN..
LTS20 - LT100**

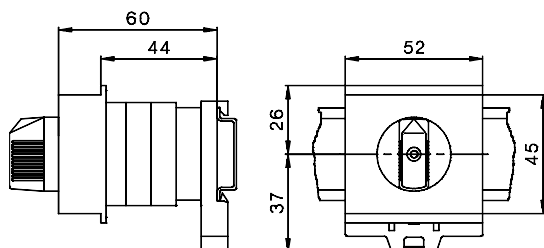


**Switch Disconnecter LT.. SMA..
LTS20 - LT100**



Type	3-pole 4-pole aux. 4.Pole contact PE					G	M	N
	A	B	B	B1	B2			
LTS20 bis LTS40	-	48	48	10	-	54	60	52
LTS63, LTS80	-	48	62,5	10	14,5	54	60	52
LT80, LT100	-	70	92	-	-	80	70	70

Control Switch M10H SMA..



Notice: