Contactors RM100, RM125, RM160, RM200, RM250

Contactors series "RM" have been designed for controlling motor loads preferably, as well as for resistive loads, lighting devices and further use. The series consists of five types in three sizes; RM100 and RM125 in the smallest size, RM160 and RM200 in the middle one, and finally, RM250 in the largest size. Their advanced and robust design guarantees highest durability and reliability even in heavy duty operating conditions.



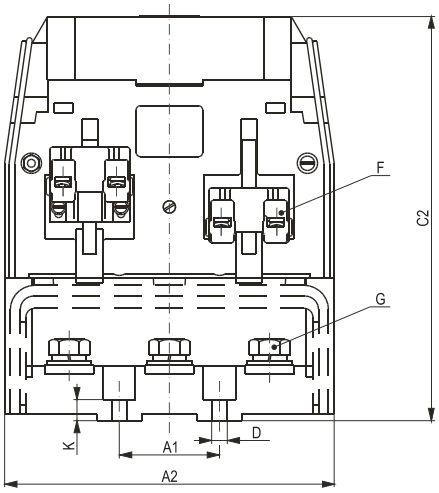
Technical data	RM100	RM125	RM160	RM200	RM250
Main poles					
Rated insulation voltage U_i [V]	690		690		690
Impulse withstand voltage U_{imp} [kV]	8		8		8
Conventional free air thermal current I_{th} [A]	140		225	225	350
Rated operational current I_e v AC-1 at 400 V [A]	105	140	160	200	350
v AC-3 at 400 V [A]	85 (30)	105 (38)	140 (44)	170 (50)	250 (72)
Max. output power of controlled motor in AC-3 (AC-4)					
at 220-230 V [kW]	**25**	**30**	**45**	**55**	**75**
at 380-400 V [kW]	**45 (15)**	**55 (18,5)**	**75 (25)**	**90 (25)**	**132 (37)**
at 500 V [kW]	**45 (15)**	**55 (18,5)**	**75 (25)**	**75 (25)**	**132 (45)**
at 660-690 V [kW]	**37**	**45**	**55**	**75**	**110**
Max. number of on-load op. cycles per hour in AC-1	**300**		**300**		**300**
AC-3, AC-4	**600**		**600**		**600**
Electrical durability in AC-1 at 400V for rated op. current [op. cycles]	$0,5 \times 10^6$		$0,5 \times 10^6$		$0,5 \times 10^6$
Electrical durability in AC-3 at 400V for rated op. current [op. cycles]	$0,9 \times 10^6$	$0,7 \times 10^6$	$0,65 \times 10^6$	$0,5 \times 10^6$	$0,5 \times 10^6$
Recommended fuse char. aM [A]	100		160		250
Type of co-ordination with SCPD	2		2		2
Mechanical durability - AC controlled [op. cycles]	10×10^6		10×10^6		10×10^6
Mechanical durability - DC controlled [op. cycles]	5×10^6		5×10^6		10^6
Auxiliary contacts					
Rated insulation voltage U_i [V]	690		690		690
Impulse withstand voltage U_{imp} [kV]	8		8		8
Conventional free air thermal current I_{th} [A]	12		12		12
Rated operational current I_e v AC-15 at 220-230 V [A]	4		4		4
at 380-400 V [A]	2		2		2
Electrical durability in AC-15 at 220-230 V, 4 A [op. cycles]	$0,8 \times 10^6$		$0,8 \times 10^6$		$0,8 \times 10^6$
at 380-400 V, 2 A [op. cycles]	10^6		10^6		10^6
Control circuit					
Range of AC coil control voltages at [V/50Hz]	24 ... 690		42 ... 690		110 ... 690
[V/60Hz]	24 ... 660		42 ... 660		110 ... 660
Pull-in input power of AC control coil ±10% [VA]	208		365		700
Hold-in input power of AC contol coil ±10% [VA/W]	37 / 6,9		61 / 14,5		75 / 23
Range of DC coil control voltages [V]	24 ... 250		24 ... 250		24 ... 250
Pull-in input power of DC control coil ±10% [W]	72		72		117
Hold-in input power of DC contol coil ±15% [W]	12		12		9
Main dimensions W x H x D [mm]	108 x 124 x 140		148 x 179 x 178,5		154 x 204 x 191,5
Weight [kg]	1,4		3,7		5,7
Degree of protection	IP20 / IP10		IP20 / IP10		IP20 / IP10

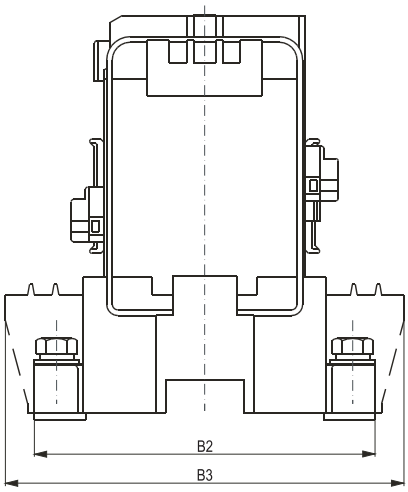
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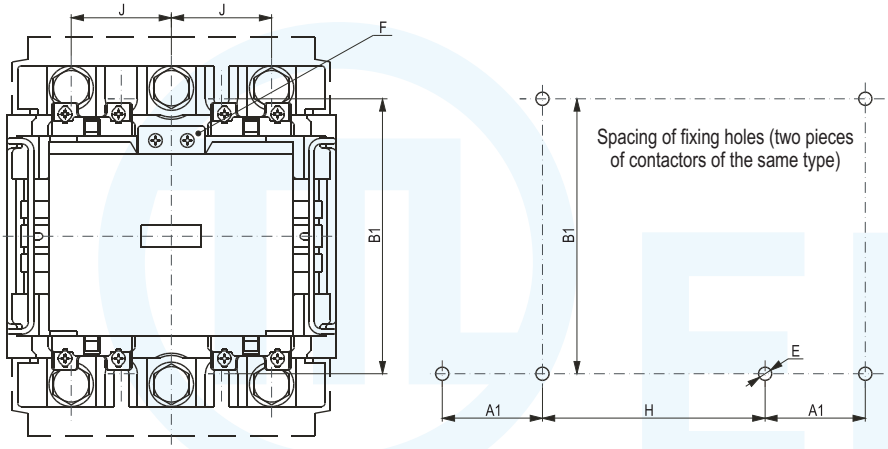
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Outline drawing of contactors RM100, RM125, RM160, RM200, RM250

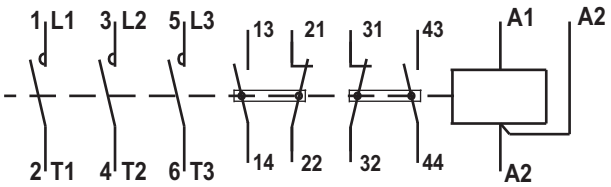




Dimensions	RM100 RM125	RM160 RM200	RM250
A1	32,5	45	50
B1	87,5	125	150
A2	108	148	154
B2	100	153	176
B3	124	179	204
C2	140	178,5	191,5
D	6	7	7
E	3 x M5	3 x M6	3 x M6
F	10 x M3,5	10 x M3,5	10 x M3,5
G	6 x M6	6 x M10	6 x M10
H	≥ 77,5	≥ 105	≥ 106
J	32	45	50
K	4	9,5	9,5



Terminals marking and conductor cross-section



Contactor type	Main poles				Auxiliary contacts and coil			
	Terminal width [mm2]	Terminal type	Screw size	Conductor cross-section [mm^2]	Terminal type	Screw size	Conductor cross-section	
							Ridgid	Flexible
RM100, RM125	15	Lug terminal	hexagonal head M6	16 .. 50	screw-type	M3,5	1 .. 2,5	0,75 .. 1,5
RM160, RM200	21,5	Lug terminal	hexagonal head M10	35 .. 150	screw-type	M3,5	1 .. 2,5	0,75 .. 1,5
RM250	25	Lug terminal	hexagonal head M10	70 .. 150	screw-type	M3,5	1 .. 2,5	0,75 .. 1,5

Terminals of auxiliary contacts and coil facilitate connecting of either a single conductor up to the maximum cross-section, or two conductors of the same or by one degree different cross-sections, except for the maximum one.
All screws with the combined [PH2 + simple] slots.

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