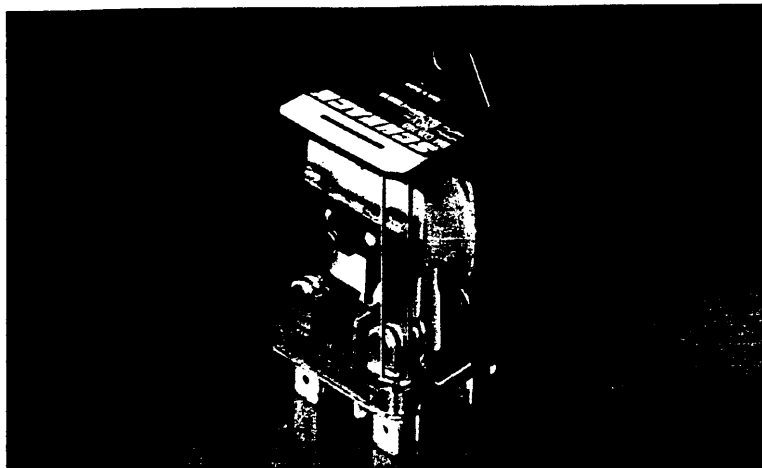


Power Relay RM

225-678 to 225-769.



- Up to 3 Change-over (Form C) contacts
- Continuous current rating up to 30 A
- Plug-in version or P.C. terminals
- For direct control of squirrel-cage motors; for control of water heaters and night-storage heaters; used as power relay in electrical appliances



Technical Data of approved types on request

Contacts

	RM 2	RM 3	RM 7	RM 5	RM 6	RM 8	RMC	RMD
Number (Configuration)	2C/O	3C/O	3C/O	2 N.O.	3 N.O.	2 C/O	1N.O.+1N.C.	1N.O.
Type of contact	single contact			single contact		single contact	single contact	
Rated Voltage/max. Contact Voltage VAC	380/440			380/440		250/440	380/440	
Rated-/Make current A	16/40	10/40	16/40	16/40	10/40	25/60	30/60	
Rated breaking capacity VA	6000	3800	6000	6000	3800	6000	7200	
Contact material	AgCdO			AgCdO		AgCdO	AgCdO	

General Data

Mechanical Life	>ops	20 x 10 ⁶				10 x 10 ⁶		
Max. switching rate, mechanical at rated load	ops/h	6000				1000		
Operate (pick-up)/release (drop-out) time		15/10/3				15/15/3		
Bounce time N.C./N.C. contact	appr. msecs.	15/10/3				17/18/4		
Ambient temperature VDC Coil	°C	-45...+70	-45...+60	-45...+60	-45...+70	-45...+60	-45...+65	-45...+60
VAC Coil	°C	-45...+55	-45...+45	-45...+45	-45...+55	-45...+45	-45...+40	-45...+40
Vibration resistance N.O./N.C. (30...150 Hz) >g		6/2				10/5		
Dielectric strength coil contact	VAC	2500				2500		
pole-pole	VAC	2500				4000		
contact-contact	VAC	1000				1500		
Creepage/ Clearance coil-contact	≥ mm	4,5/3,5				3,0/2,5		
Insulation category/Voltage rating to	VDE 0110	C 380*				C 250		

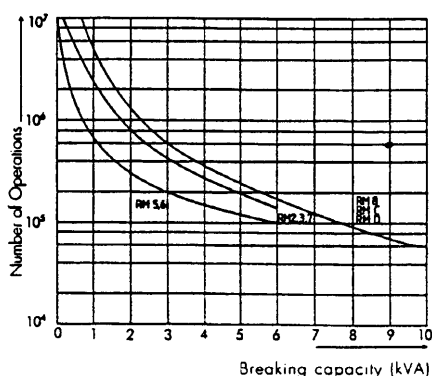
Contact life

for resistive load*

Breaking capacity

Breaking capacity

Type of Relay	Load	Standards	Type of Relay	Load	Operations	Standards
RM 2	1 hp/120 Vac per pole	UL 508	RM 8	2 hp/240 Vac per pole	>1 x 10 ⁶ >200000	UL 508 UL 508
RM 2	1 hp/240 Vac per pole	UL 508	RM 8	1 1/2 hp/120 Vac per pole		
RM 7	1 hp/120 Vac per pole	UL 508	RM 8	8 A/250 VAC cosφ = 1		
RM 7	1/2 hp/240 Vac per pole	UL 508	RM 8	16 A/380 VAC cosφ = 1		
RM 7	1/2 hp/480 Vac per pole	UL 508				
RM 7	1/2 hp/600 Vac per pole	UL 508				
RM 7	1,5 hp/120 Vac 3-phase	UL 508				
RM 7	1,5 hp/120 Vac 3-phase	UL 508				
RM 7	1 hp/480 Vac 3-phase	UL 508				
RM 3	1 hp/120 Vac per pole	UL 508				
RM 3	1/2 hp/240 Vac per pole	UL 508				
RM 3	1,5 hp/120 Vac 3-phase	UL 508				



RM

SCHRACK
COMPONENTS

Power Relay RM 2/3/7

Ordering Key

Type	Contact	Design	Coil
R M			

2 2 C/O (DPDT), 16 A
3 3 C/O (3PDT), 10 A
7 3 C/O (3PDT), 16 A

0 Standard
3 Relay with push-to-test button
5 Relay with neon lamp (no mechan. position indicator)

2 Plain case AMP-Faston 187
3 Case with mounting brackets, AMP-Faston 187
5 Case with mounting brackets, AMP-Faston 250
7 Plain case P.C. terminals
8 Case with snap-on attachment on top, AMP-Faston 250
9 Case with snap-on attachment on side, AMP-Faston 250

Coil code refer to schedule of coil data

Special types: on request

Coil Data

DC coil									
Coil Code				Rated Voltage	Operate (pull-in)V	Drop-out (rel.) V	Coil current		Coil resistance
Standard	with electr. pos. ind.	with prot. diode	with el. p. and prot. diode	VDC	VDC	VDC	RM2, RM3	RM 7	RM 2, RM 3 RM 7
							mA		ohms
006	L06	0A6	LA6	6	4,5	0,9	188,0	250,0	32±10%
012	L12	0B2	LB2	12	9,0	1,8	109,0	140,0	110±10%
024	L24	0C4	LC4	24	18,0	3,6	50,5	69,6	475±10%
048	L48	0E8	LE8	48	36,0	7,2	24,0	35,8	2000±10%
060	L60	0G0	LG0	60	45,0	9,0	21,1	27,3	2850±10%
110	M10	1B0	MB0	110	82,5	16,5	11,0	15,1	10000±10%
220	N20	2C0	NC0	220*	165,0	33,0	11,0	15,6	10000±10%
221	N21	2C1	NC1	220	165,0	33,0	5,5	7,3	40000±10%

* 110-V Relay with external series resistor: 6.8 kohms/5W for RM7; 10 kohms/4W for RM 2 and RM 3

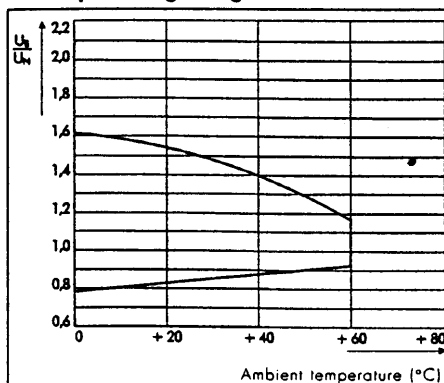
All figures are given for cold coil (at ambient temperature +20°C/68°F)

Coil Data

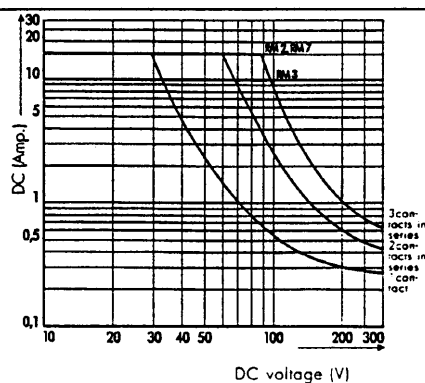
AC coil									
Coil Code				Rated Voltage	Operate (pull-in)V	Drop-out (rel.) V	Coil current		Coil resistance
Standard	with electr. pos. ind.			VAC	VAC	VAC	2 u	3 u	2 u 3 u
							mA		ohms
506	R06			6	4,8	2,4	300,0	445	5,3±10%
512	R12			12	9,6	4,8	148,0	222	24,0±10%
524	R24			24	19,2	9,6	85,0	120	86,0±10%
548	R48			48	38,4	19,2	45,0	62	345,0±10%
560	R60			60	48,0	24,0	40,0	49	500,0±10%
615	S15			110/120	88,0	44,0	18,0	24	2000,0±10%
720	T20			220	176,0	88,0	8,6	13	8200,0±10%
740	T40			240	192,0	96,0	8,7	11	10000,0±10%
880	U80			380	304,0	152,0	8,0	8	16500,0±10%

All figures are given for cold coil (at ambient temperature +20°C/68°F)

Coil operating range



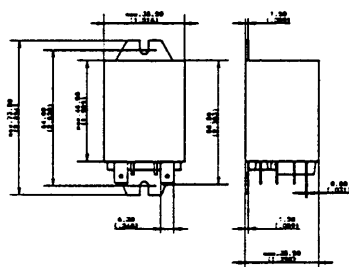
Breaking Capacity with resistive load



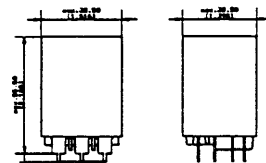
Dimensions-, Connections- and P.C. Lay-out

Dimensions

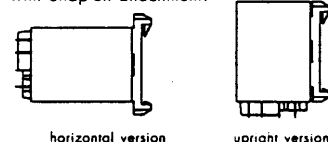
FASTON 250 terminals, with brackets



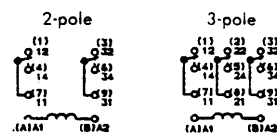
with PCB terminals:



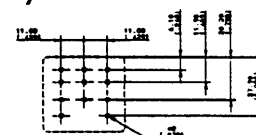
with Snap-on attachment:



Connections



P.C. Lay-out

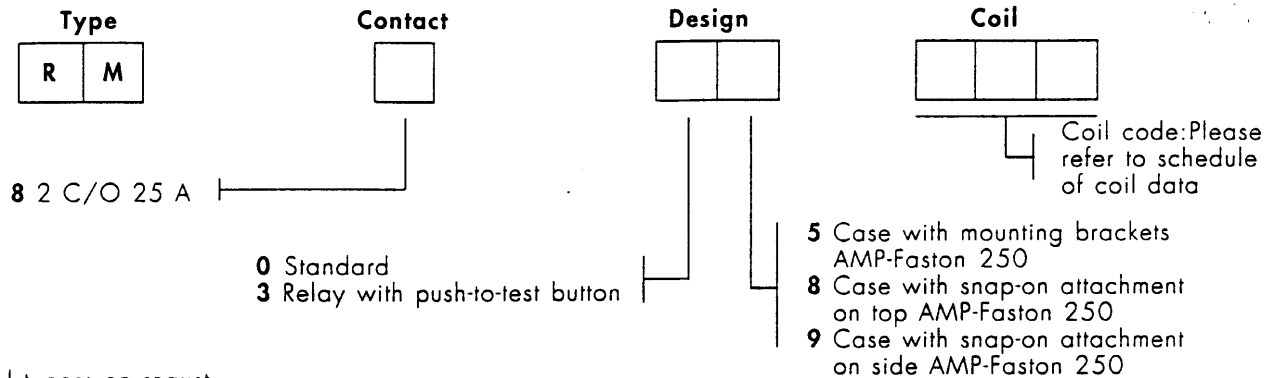


View on terminals
All dimensions in mm (in.)

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COMPONENTS

Power Relay RM 8

Ordering Key



Special types: on request

Coil Data

DC coil								
Coil Code				Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	with electr. pos. ind.	with prot. diode	with el. p.i. and prot. diode	VDC	VDC	VDC	mA	ohms
006	L06	0A6	LA6	6	4,5	0,9	188,0	32±10%
012	L12	0B2	LB2	12	9,0	1,8	109,0	110±10%
024	L24	0C4	LC4	24	18,0	3,6	50,5	475±10%
048	L48	0E8	LE8	48	36,0	7,2	24,0	2000±10%
060	L60	0G0	LG0	60	45,0	9,0	21,1	2850±10%
110	M10	1B0	MB0	110	82,5	16,5	12,2	9000±10%
220	N20	2C0	NC0	220*	165,0	33,0	12,8	9000±10%
221	N21	2C1	NC1	220	165,0	33,0	6,5	34000±10%

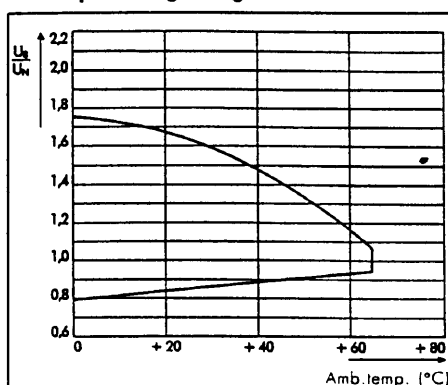
* 110-V-relay with external series resistor 8,2 kohms/5 W
All figures are given for cold coil (at ambient temperature +20° C/68°F)

Coil Data

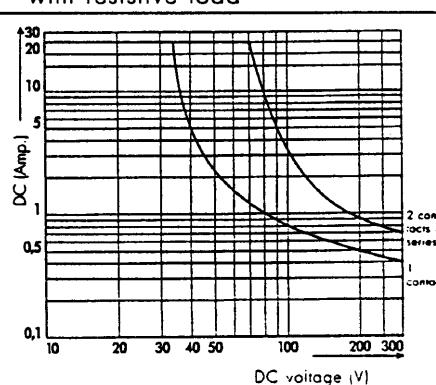
AC coil						
Coil Code		Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	with electr. pos. ind.	VAC	VAC	VAC	mA	ohms
506	R06	6	4,8	2,4	445,0	4±10%
512	R12	12	9,6	4,8	222,0	16±10%
524	R24	24	19,2	9,6	120,0	65±10%
548	R48	48	38,4	19,2	62,0	242±10%
560	R60	60	48,0	24,0	49,0	450±10%
615	S15	110/120	88,0	44,0	24,0	1500±10%
720/740	T20/T40	220/240	176,0	88,0	13,0	5600±10%
880	U80	380	304,0	152,0	8,0	16500±10%

All figures are given for cold coil (at ambient temperature +20° C/68°F)

Coil operating range

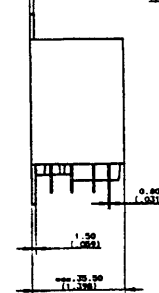
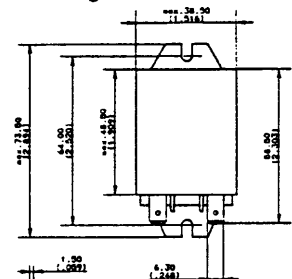


Max. DC Load Breaking Capacity with resistive load

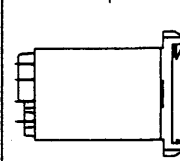


Dimensions and Connections

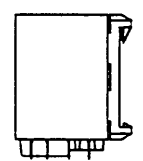
Dimensions with mounting brackets



with Snap-on attachment:

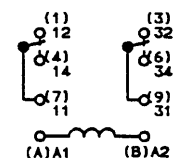


horizontal version (RM...8)



upright version (RM...9)

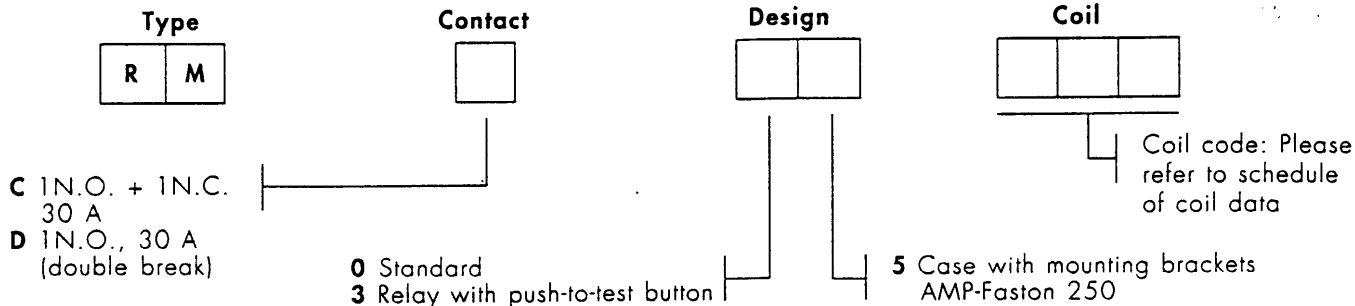
Connection



View on terminals
All dimensions in mm (in.)

Power Relay RM C/D

Ordering Key



Special types: on request

Coil Data

DC Coil					
Coil Code	Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	VDC	VDC	VDC	mA	ohms
006	6	4,5	0,9	188,0	32±10%
012	12	9,0	1,8	109,0	110±10%
024	24	18,0	3,6	50,5	475±10%
048	48	36,0	7,2	24,0	2000±10%
060	60	45,0	9,0	21,1	2850±10%
110	110	82,5	16,5	12,2	9000±10%
220	220*	165,0	33,0	12,8	9000±10%
221	220	165,0	33,0	6,5	34000±10%

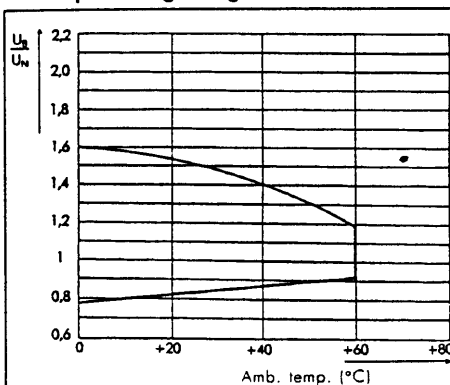
* 110-V Relay with external series resistor 8,2 kOhms/5 W.
All figures are given for cold coil (at ambient temperature +20 °C/68°F)

Coil Data

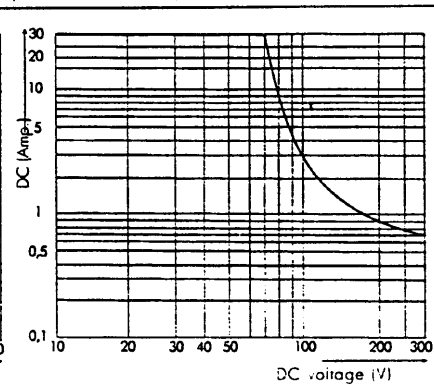
AC Coil					
Coil Code	Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	VAC	VAC	VAC	mA	ohms
506	6	4,8	2,4	445,0	4±10%
512	12	9,6	4,8	222,0	16±10%
524	24	19,2	9,6	120,0	65±10%
548	48	38,4	19,2	62,0	242±10%
560	60	48,0	24,0	49,0	450±10%
615	110/120	88,0	44,0	24,0	1500±10%
720/740	220/240	176,0	88,0	13,0	5600±10%
880	380	304,0	152,0	8,0	16500±10%

All figures are given for cold coil (at ambient temperature +20° C/68°F)

Coil operating range (DC coil)



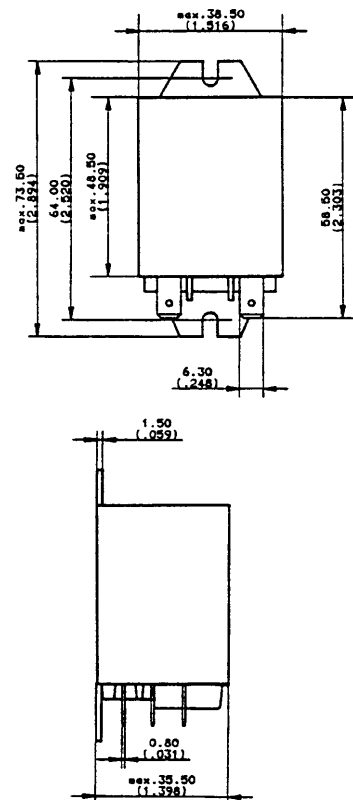
Max. DC Load Breaking Capacity (resistive load)



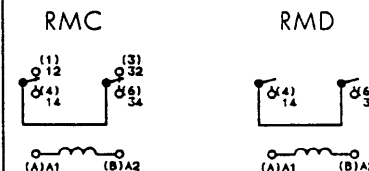
Dimensions and Connections

Dimensions

Case with mounting brackets



Connections



View on terminals
All dimensions in mm (inch)

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COMPONENTS