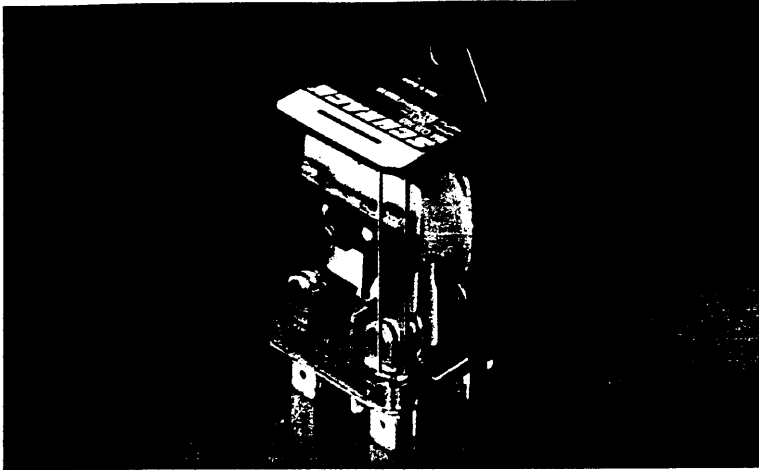


Power Relay RM



- 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	appr. msecs.	15/10/3		15/10/4		15/15/3	17/18/4	
Bounce time N.C./N.C. contact	appr. msecs.	15/10/3		15/10/4		15/15/3	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		6		10/5		
Dielectric strength coil contact	VAC	2500		2500		2500		
pole-pole	VAC	2500		2500		4000		
contact-contact	VAC	1000		2500		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		

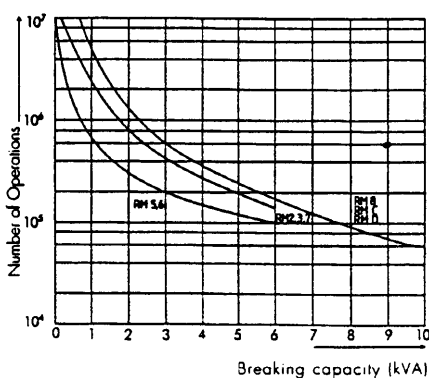
Contact life

for resistive load*

Breaking capacity

Breaking capacity

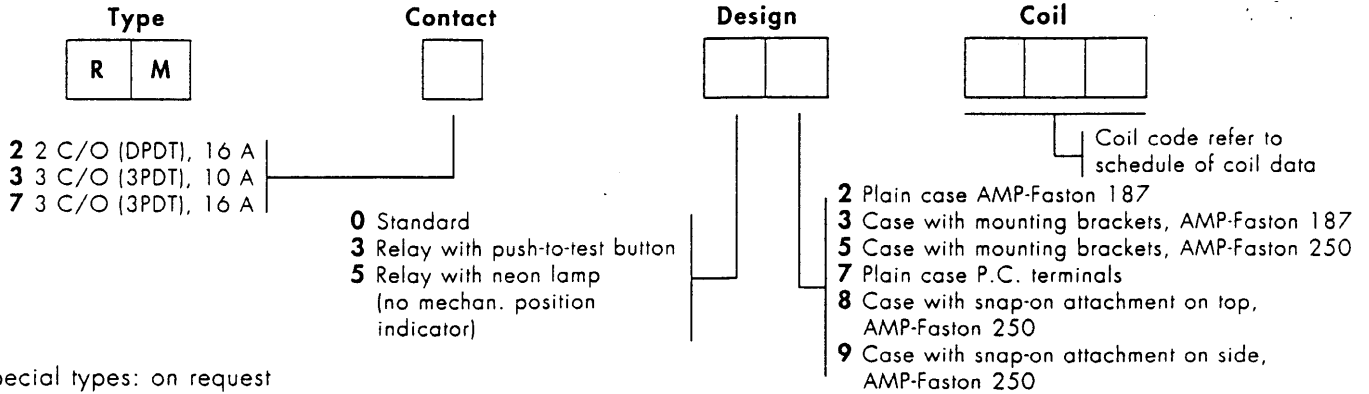
Type of Relay	Load	Standards	Type of Relay	Load	Operations	Standards
RM 2	1 hp/120 Vac per pole	UL 508	RM 8	2 hp/240 Vac per pole	>1 x 10 ⁶ >200000	UL 508 UL 508
RM 2	1 hp/240 Vac per pole	UL 508	RM 8	1 1/2 hp/120 Vac per pole		
RM 7	1 hp/120 Vac per pole	UL 508	RM 8	8 A/250 VAC cosφ = 1		
RM 7	1/2 hp/240 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

Power Relay RM 2/3/7

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		
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	
				VDC			mA		ohms		
006	L06	0A6	LA6	6	4,5	0,9	188,0	250,0	32±10%	24±10%	
012	L12	0B2	LB2	12	9,0	1,8	109,0	140,0	110±10%	86±10%	
024	L24	0C4	LC4	24	18,0	3,6	50,5	69,6	475±10%	345±10%	
048	L48	0E8	LE8	48	36,0	7,2	24,0	35,8	2000±10%	1340±10%	
060	L60	0G0	LG0	60	45,0	9,0	21,1	27,3	2850±10%	2200±10%	
110	M10	1B0	MB0	110	82,5	16,5	11,0	15,1	10000±10%	7300±10%	
220	N20	2C0	NC0	220*	165,0	33,0	11,0	15,6	10000±10%	7300±10%	
221	N21	2C1	NC1	220	165,0	33,0	5,5	7,3	40000±10%	30000±10%	

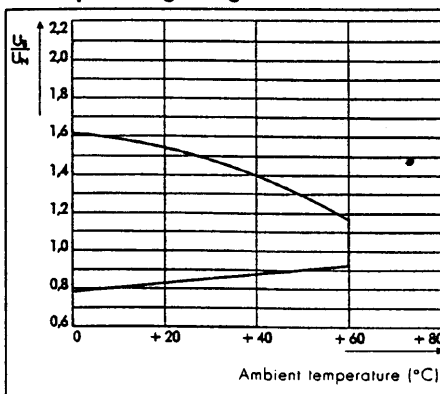
* 110-V Relay with external series resistor: 6.8 kohms/5W for RM7; 10 kohms/4W for RM 2 and RM 3
All figures are given for cold coil (at ambient temperature +20°C/68°F)

Coil Data

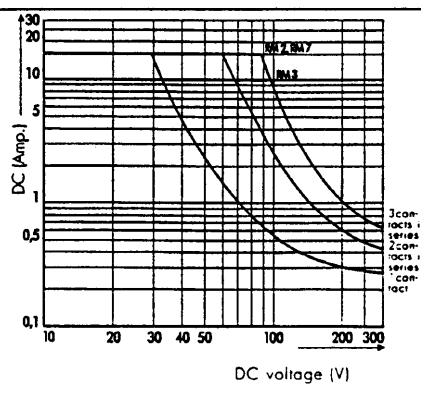
AC coil									
Coil Code		Rated Voltage	Operate (pull-in)V	Drop-out (rel.) V	Coil current		Coil resistance		
Standard	with electr. pos. ind.	VAC	VAC	VAC	2 u	3 u	2 u	3 u	
		VAC			mA		ohms		
506	R06	6	4,8	2,4	300,0	445	5,3±10%	4±10%	
512	R12	12	9,6	4,8	148,0	222	24,0±10%	16±10%	
524	R24	24	19,2	9,6	85,0	120	86,0±10%	65±10%	
548	R48	48	38,4	19,2	45,0	62	345,0±10%	242±10%	
560	R60	60	48,0	24,0	40,0	49	500,0±10%	450±10%	
615	S15	110/120	88,0	44,0	18,0	24	2000,0±10%	1500±10%	
720	T20	220	176,0	88,0	8,6	13	8200,0±10%	5600±10%	
740	T40	240	192,0	96,0	8,7	11	10000,0±10%	6700±10%	
880	U80	380	304,0	152,0	8,0	8	16500,0±10%	16500±10%	

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

Coil operating range



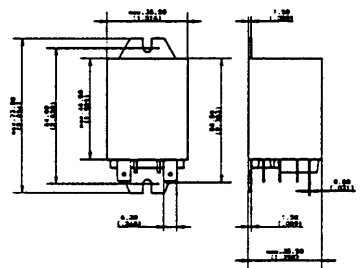
Breaking Capacity with resistive load



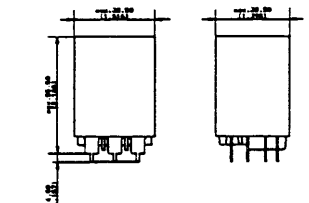
Dimensions-, Connections- and P.C. Lay-out

Dimensions

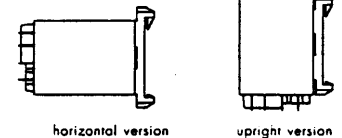
FASTON 250 terminals, with brackets



with PCB terminals:



with Snap-on attachment:

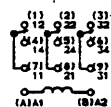


Connections

2-pole



3-pole



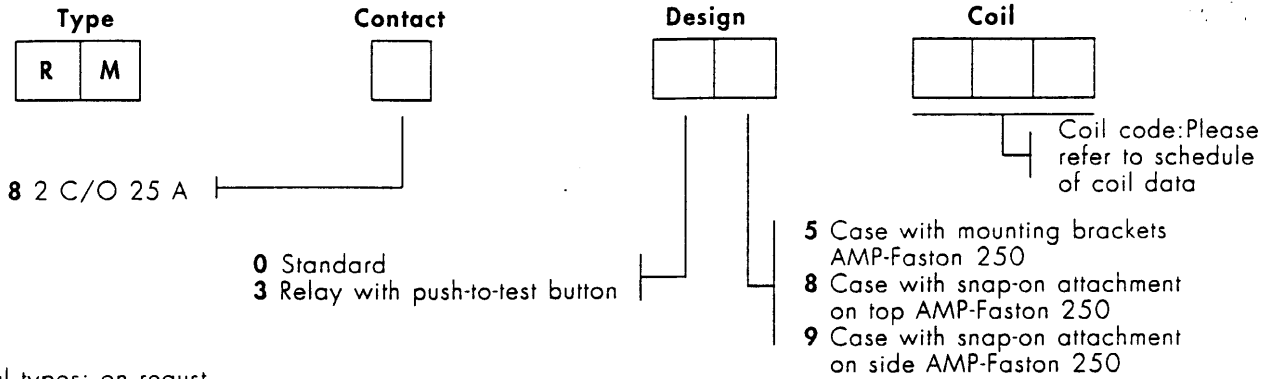
P.C. Lay-out



View on terminals
All dimensions in mm (in.)

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%	

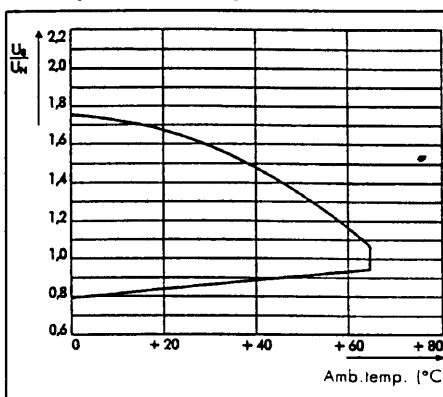
* 110-V-relay with external series resistor 8,2 kohms/5 W
 All figures are given for cold coil (at ambient temperature +20° C/68°F)

Coil Data

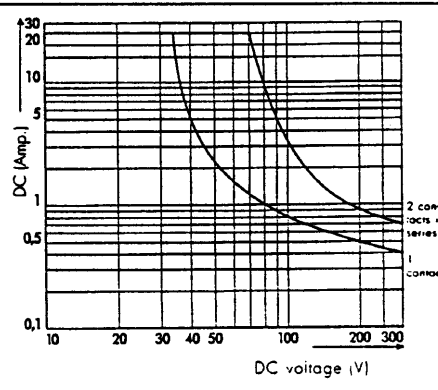
AC coil						
Coil Code		Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	with electr. pos. ind.	VAC	VAC	VAC	mA	ohms
506	R06	6	4,8	2,4	445,0	4±10%
512	R12	12	9,6	4,8	222,0	16±10%
524	R24	24	19,2	9,6	120,0	65±10%
548	R48	48	38,4	19,2	62,0	242±10%
560	R60	60	48,0	24,0	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



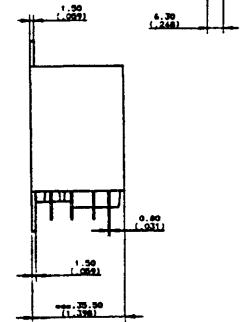
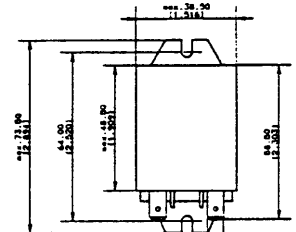
Max. DC Load Breaking Capacity with resistive load



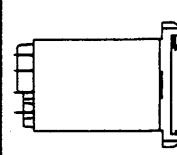
Dimensions and Connections

Dimensions

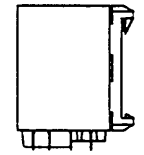
with mounting brackets



with Snap-on attachment:

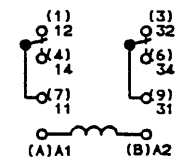


horizontal version (RM...8)



upright version (RM...9)

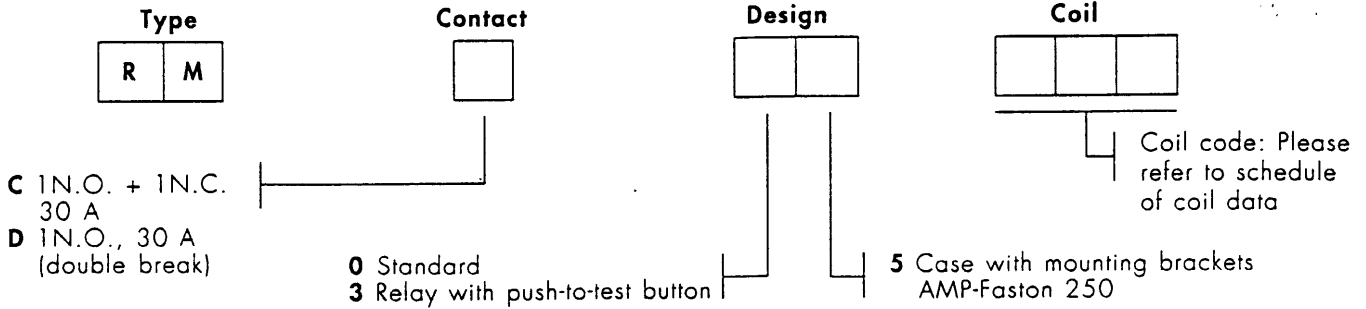
Connection



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%

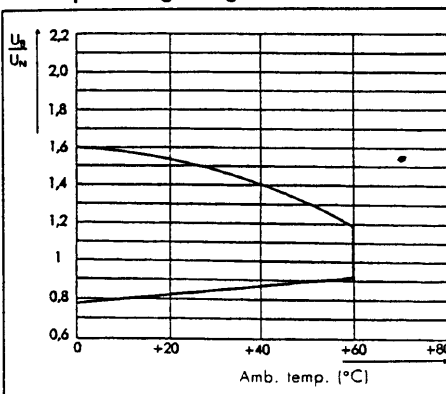
* 110-V Relay with external series resistor 8,2 kOhms/5 W.
 All figures are given for cold coil (at ambient temperature +20 °C/68°F)

Coil Data

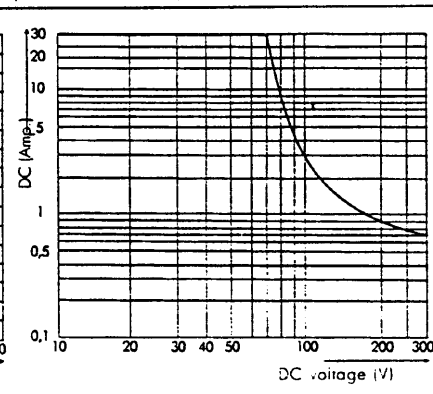
AC Coil					
Coil Code	Rated Voltage	Operate (pull-in) V.	Drop-out (rel.) V.	Coil current	Coil resistance
	VAC	VAC	VAC	mA	ohms
506	6	4,8	2,4	445,0	4±10%
512	12	9,6	4,8	222,0	16±10%
524	24	19,2	9,6	120,0	65±10%
548	48	38,4	19,2	62,0	242±10%
560	60	48,0	24,0	49,0	450±10%
615	110/120	88,0	44,0	24,0	1500±10%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



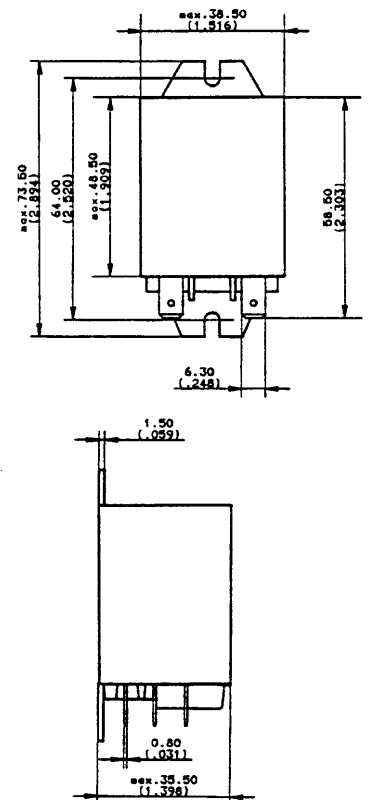
Max. DC Load Breaking Capacity (resistive load)



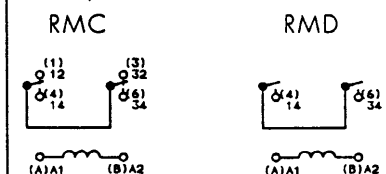
Dimensions and Connections

Dimensions

Case with mounting brackets



Connections



View on terminals
 All dimensions in mm (inch)

RM

SCHRACK
 COMPONENTS