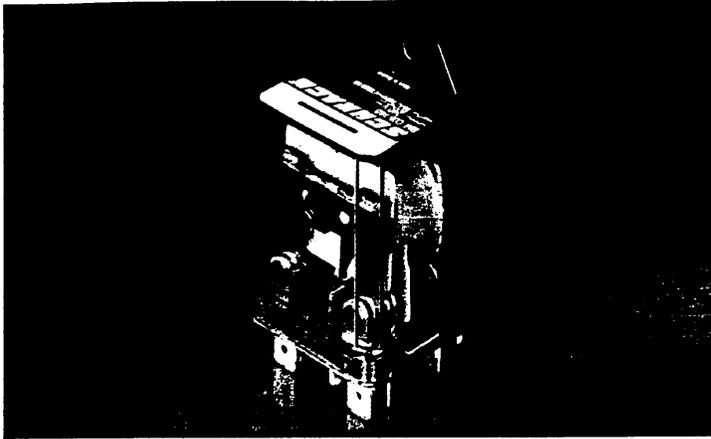


Power Relay RM



- 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

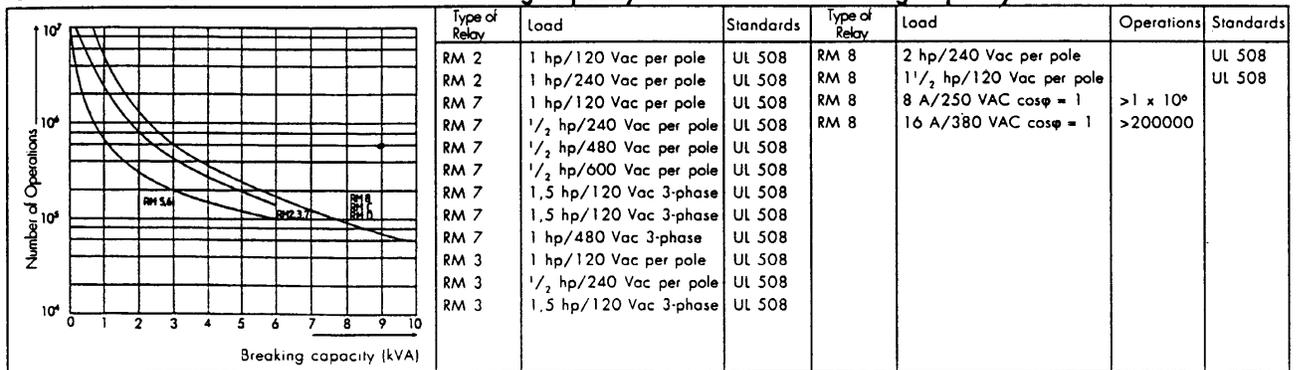
Contacts

	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

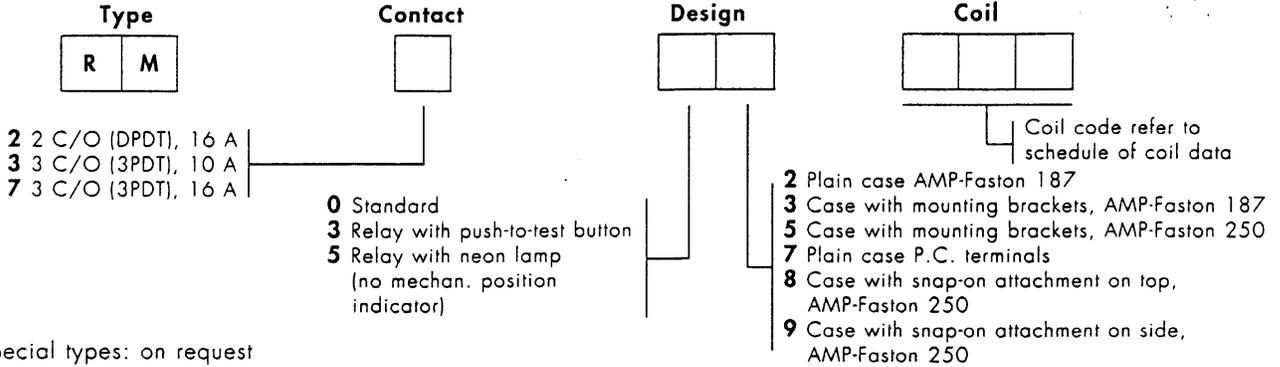
Mechanical life >ops	20 x 10 ⁶				10 x 10 ⁶			
Max. switching rate, mechanical at rated load ops/h	6000				1000			
Operate (pick-up)/release (drop-out) time	15/10/3			15/10/4		15/15/3		17/18/4
Bounce time N.C./N.C. contact appr.msecs.	15/10/3			15/10/4		15/15/3		17/18/4
Ambient temperature VDC Coil °C	-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*



Power Relay RM 2/3/7

Ordering Key



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	106	0A6	LA6	6	4.5	0.9	188.0	250.0	32±10%	24±10%
012	112	0B2	LB2	12	9.0	1.8	109.0	140.0	110±10%	86±10%
024	124	0C4	LC4	24	18.0	3.6	50.5	69.6	475±10%	345±10%
048	148	0E8	LE8	48	36.0	7.2	24.0	35.8	2000±10%	1340±10%
060	160	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)

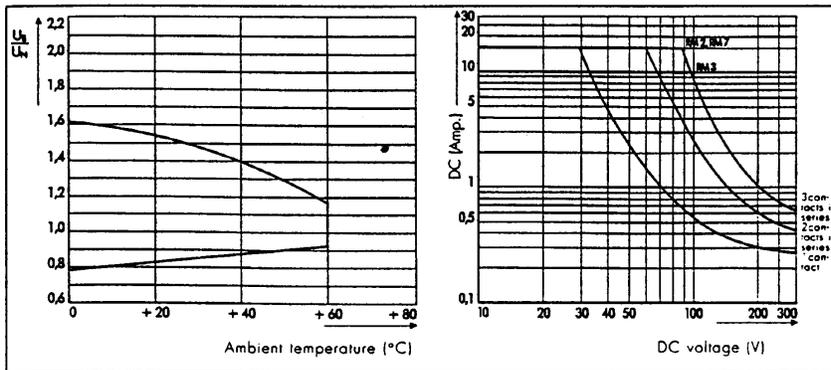
Coil Data

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)

Breaking Capacity with resistive load

Coil operating range



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

Dimensions

FASTON 250 terminals, with brackets

with PCB terminals:

with Snap-on attachment:

horizontal version upright version

Connections

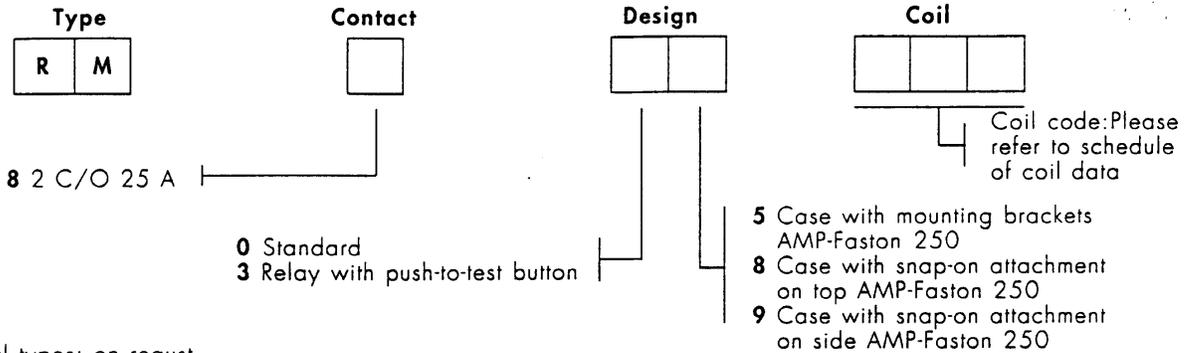
2-pole 3-pole

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%

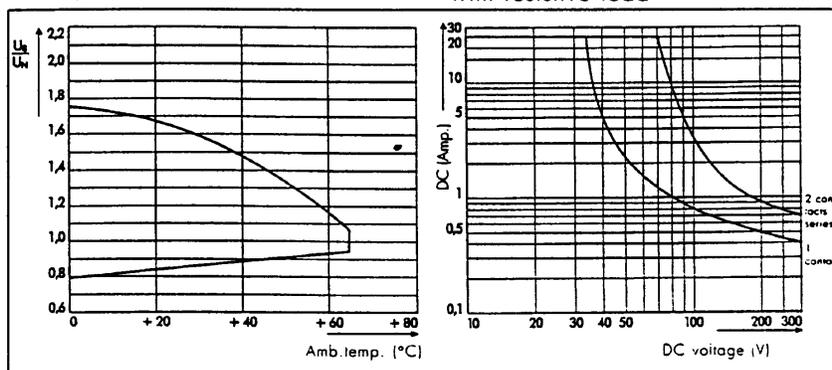
* 110-V-relay with external series resistor 8,2 kohms/5 W
All figures are given for cold coil (at ambient temperature +20° C/68°F)

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)

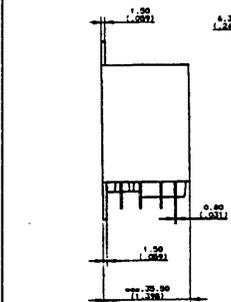
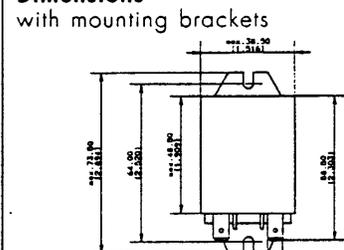
Coil operating range



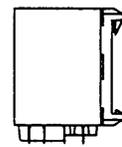
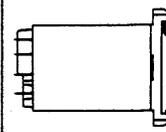
Max. DC Load Breaking Capacity with resistive load

Dimensions and Connections

Dimensions with mounting brackets



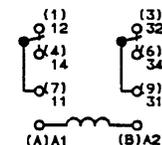
with Snap-on attachment:



horizontal version (RM...8)

upright version (RM...9)

Connection

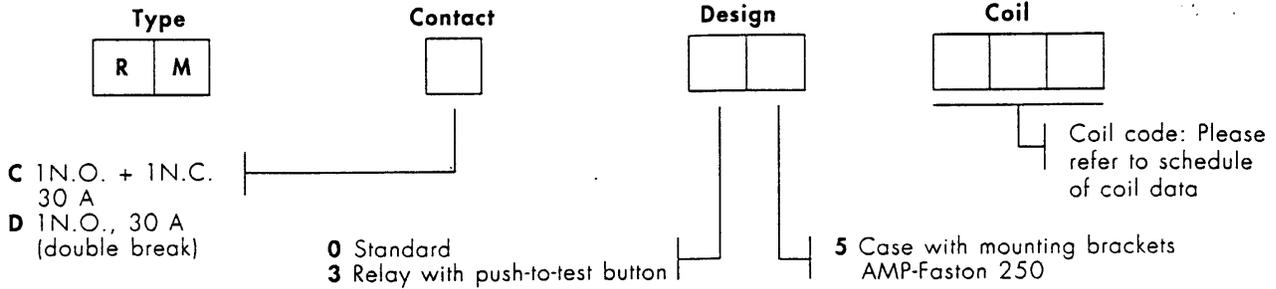


View on terminals
All dimensions in mm (in.)



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%

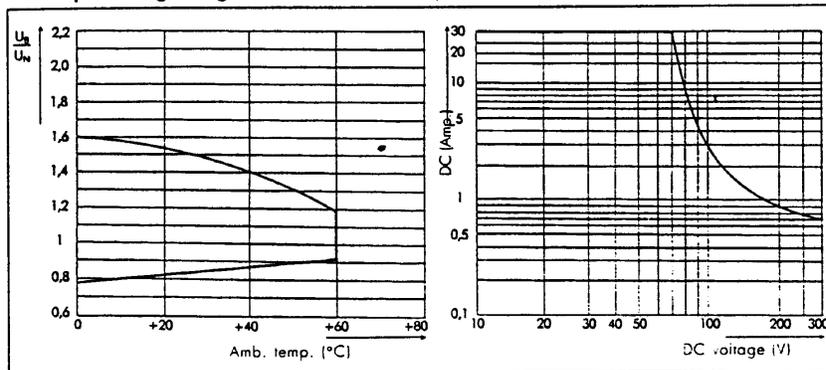
* 110-V Relay with external series resistor 8,2 kOhms/5 W.
 All figures are given for cold coil (at ambient temperature +20 °C/68°F)

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)

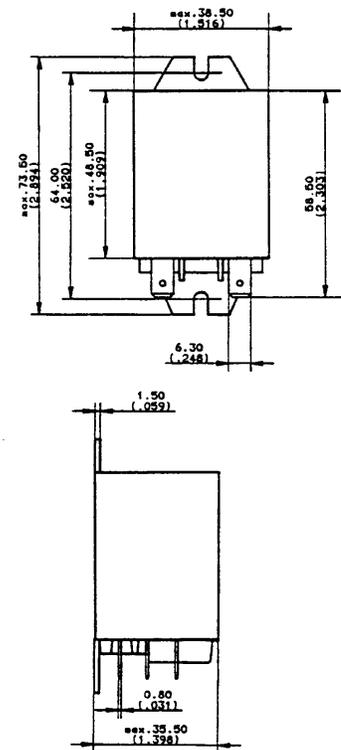


Max. DC Load Breaking Capacity (resistive load)

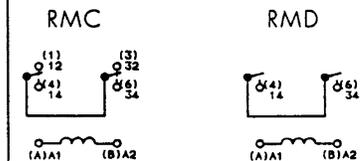
Dimensions and Connections

Dimensions

Case with mounting brackets



Connections



View on terminals
 All dimensions in mm (inch)

RM

SCHRACK
 COMPONENTS