

- 2 contatos reversíveis (10A) ou 4 contatos reversíveis (5A)
- Bobinas para CA ou CC
- Botão de teste bloqueável e indicador mecânico de operação
- Indicador LED
- Homologado UL e CE

Código de compra / How to order

TNA2RC3

Número de contatos
Number of contacts
2R - 2 reversíveis / DPDT
4R - 4 reversíveis / 4PDT

Tensão nominal da bobina
Nominal coil voltage
C2 - 12 VCC/VDC
C3 - 24 VCC/VDC
C66 - 125 VCC/VDC
A22 - 24 VCA/VAC
A3 - 110 VCA/VAC
A4 - 220 VCA/VAC

Para outras tensões, consulte a linha MSO



- Lockable test button and mechanical flag indicator
- LED indicator
- DPDT - 10A
- 4PDT - 5A
- AC or DC coils
- UL and CE approvals

Especificações de bobina / Coil specifications (a/at 23°C)

Modelo Type		Tensão nominal Nominal voltage V	Máx. tensão contínua Max. allowable voltage V	Tensão de operação Pick-up voltage V	Tensão de desoperação Drop-out voltage V	Corrente nominal Nominal coil current mA	Resistência (±10%) Resistance (±10%) Ω*
CC/DC	C2	12	13,2	≤ 9	≥ 1,2	76	158
	C3	24	26,4	≤ 18	≥ 2,4	38	630
	C66	125	137,5	≤ 106	≥ 12,4	7,2	17300
CA/AC	A22	24	26,4	≤ 19,2	≥ 7,2	53	180
	A3	110	121	≤ 88	≥ 33	15	4430
	A4	220	253	≤ 184	≥ 69	7	15000

* ±15% acima (over) de 1200Ω

Especificações de contato / Contact specifications

Número de contatos / Contacts		2R	4R
Capacidade do contato Maximum contact rating	Carga resistiva / Resistive load cos Ø = 1	250 VCA/VAC 10A 30 VCC/VDC 10A	250 VCA/VAC 5A 30 VCC/VDC 5A
	Motor	1/3 HP, 120 VCA/VAC 1/2 HP, 240 VCA/VAC	1/6 HP, 120 VCA/VAC 1/3 HP, 240 VCA/VAC
Corrente de comutação máx. / Maximum switching current		10A	5A
Potência de comutação máx. / Maximum switching power		2500VA / 300W	1250VA / 150W
Tensão de comutação máx. / Maximum switching voltage		380VCA/VAC / 220VCC/VDC	380VCA/VAC / 220VCC/VDC
Resistência de contato máx. / Maximum contact resistance		50mΩ	50mΩ
Tempo de operação e desoperação / Operate and release time		20ms máx.	20ms máx.
Material dos contatos / Contact material		Liga de prata / Silver alloy	Liga de prata / Silver alloy

Características gerais / Characteristics

Rigidez dielétrica entre bobina e contatos / Breakdown voltage between contacts and coil	1800 VCA/VAC - 60Hz (1 minuto/minute)
Rigidez dielétrica entre contatos / Breakdown voltage between contact sets	1000 VCA/VAC - 60Hz (1 minuto/minute)
Resistência de isolamento / Insulation resistance	500 MΩ min. (500 VCC/VDC)
Temperatura de operação / Ambient temperature	-55°C ~ +70°C
Vibração máxima / Max. vibration	10 ~ 55 Hz amplitude 1,0mm / 10 ~ 55Hz at amplitude of 1.0mm
Vida mecânica / Mechanical life	10 ⁷ operações mín. / operations min.
Vida elétrica (carga máxima) / Electrical life	10 ⁵ operações mín. / operations min.

Dimensões e diagramas / Dimensions and layouts (mm)

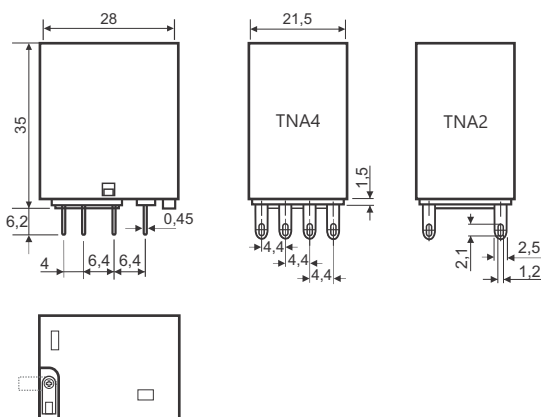
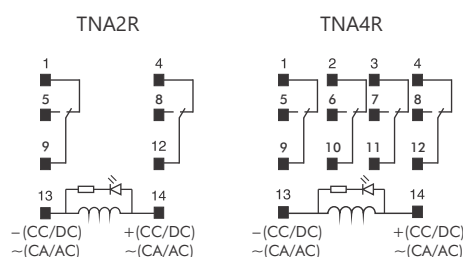
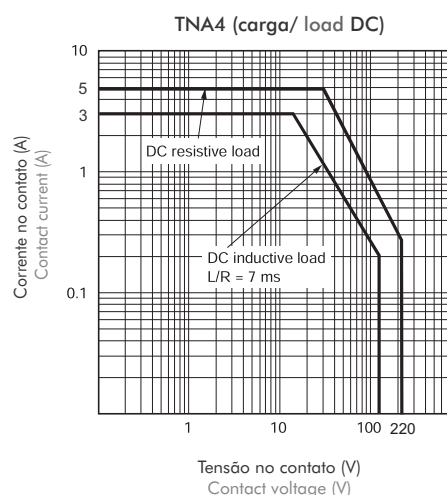
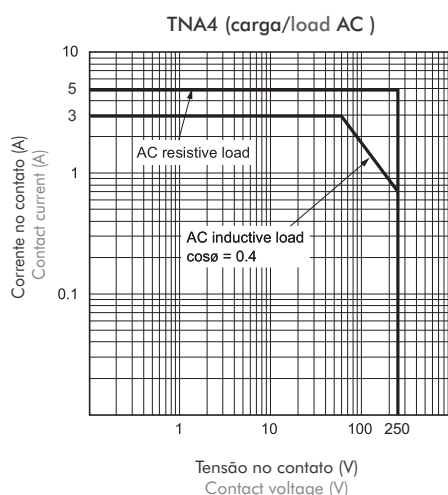
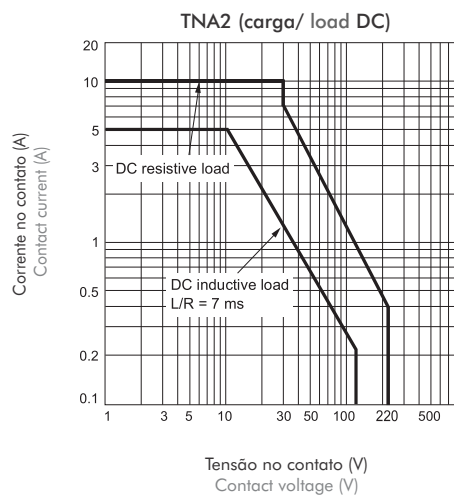
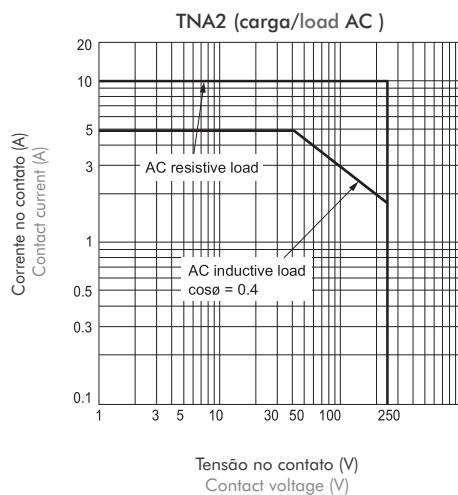
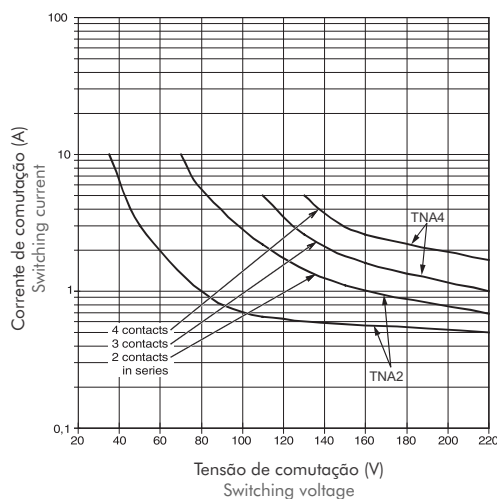


Diagrama Elétrico / Schematic

(Vista de baixo / Bottom view)



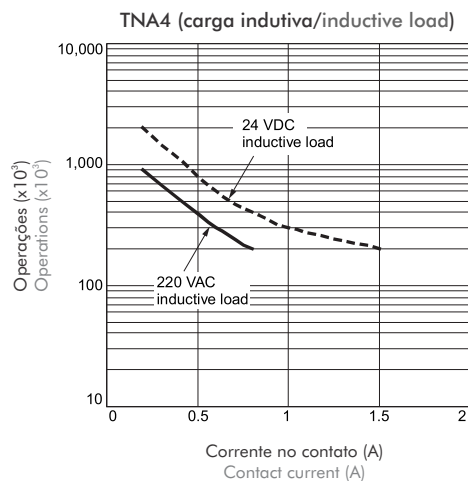
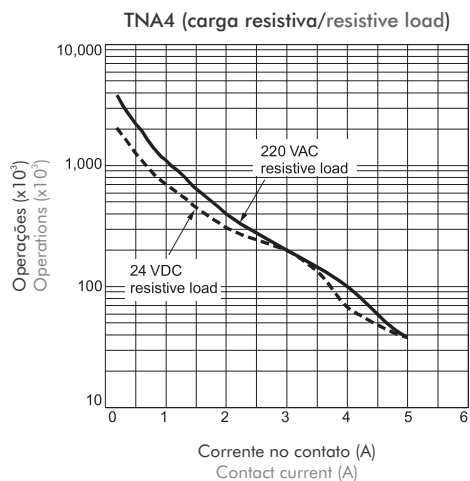
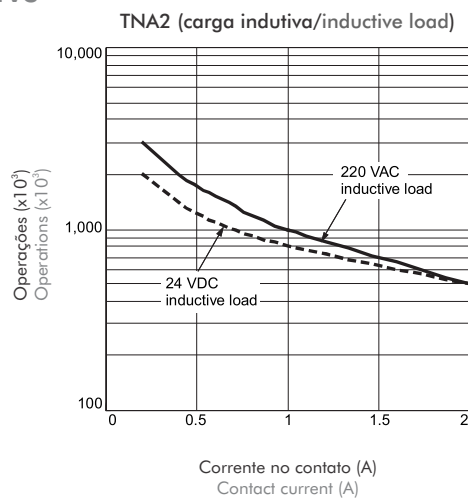
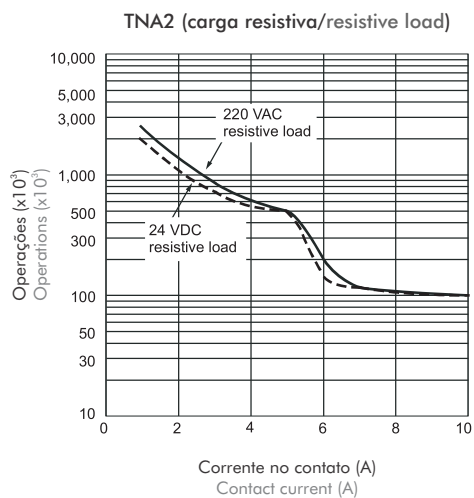
Tolerâncias / Tolerance : ± 0,20 mm

Curvas características / *Characteristic curves*
Potência máxima de comutação
Maximum switching power

Capacidade de comutação CC de múltiplos contatos / Multiple contact DC switching capacity
Capacidade de comutação da carga resistiva CC / Switching capacity of DC resistive load


Estimativa do número de contatos (associados em série) necessários para comutação de cargas resistivas CC.
Estimation of the number of contacts (associated in series) required for switching DC resistive loads.

Curvas características / *Characteristic curves*

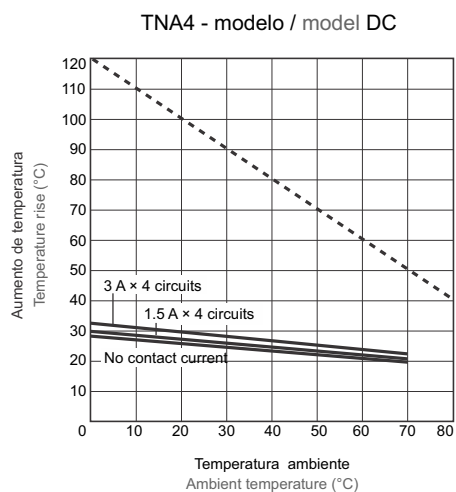
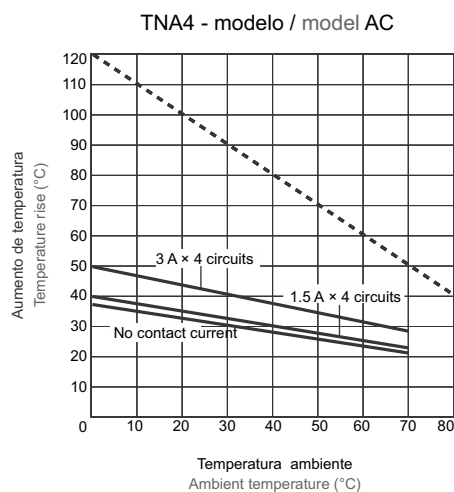
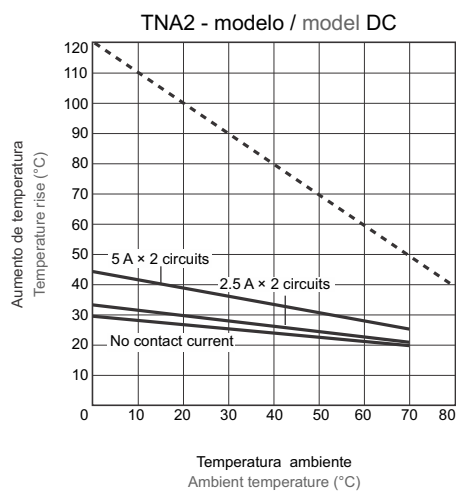
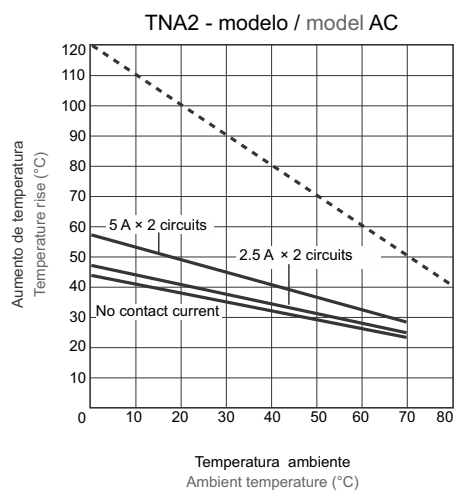
Curva de durabilidade
Endurance curve



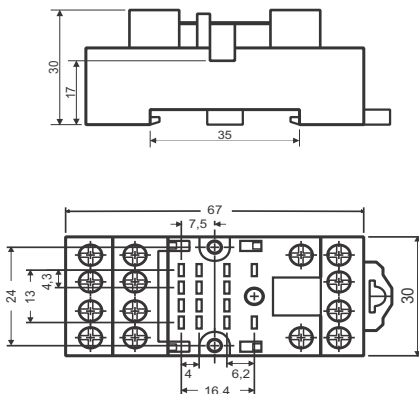
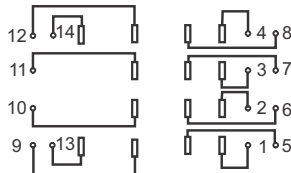
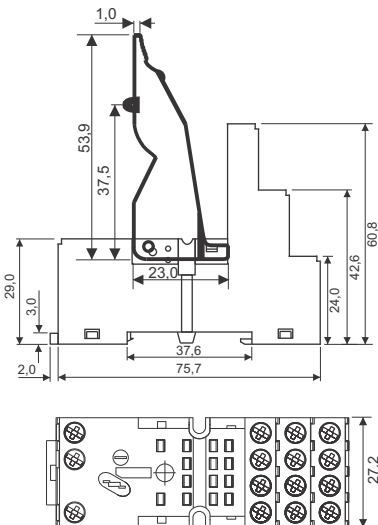
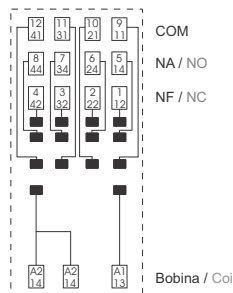
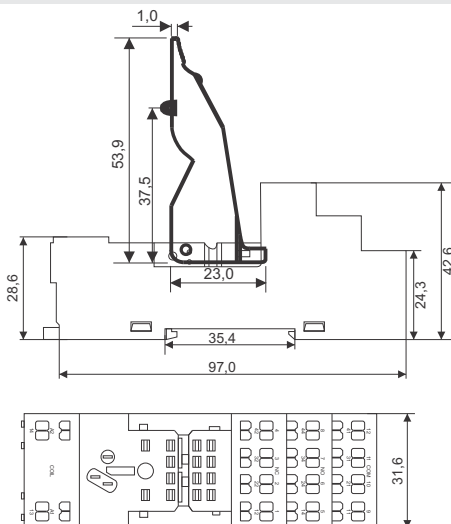
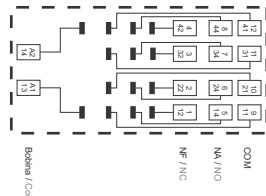
Curvas características / *Characteristic curves*

Temperatura ambiente x
Aumento da temperatura da bobina

Ambient Temperature x
Coil Temperature Rise

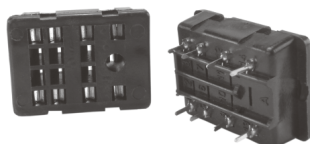


Soquetes

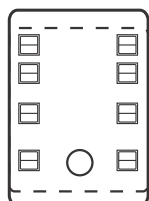
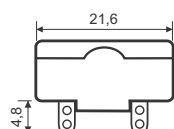
PRT5	Dimensões / Connections diagram	Diagrama de conexões / Connections diagram
		
Soquete com terminais parafuso. Presilha vendida separadamente.		
PRT55	Dimensões / Connections diagram	Diagrama de conexões / Connections diagram
		
Soquete com terminais parafuso. Presilha inclusa.		
PRT55M	Dimensões / Connections diagram	Diagrama de conexões / Connections diagram
		
Soquete com terminais mola. Presilha inclusa.		
Características gerais / Characteristics		
Tensão nominal / Rated voltage	250 VCA / VAC	
Corrente nominal / Rated current	7A	
Rigidez dielétrica / Withstand voltage	2000 VCA / VAC	
Temperatura de operação / Temperature range	-20°C a/to +70°C	
Comprimento do fio despontado / Wire strip length	7mm	
Bitola do fio / Wire gauge	1,5 mm²	

Soquetes

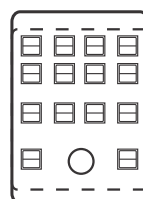
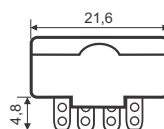
MSO



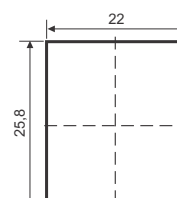
MSO2T



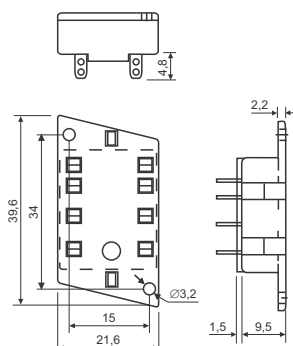
MSO4T



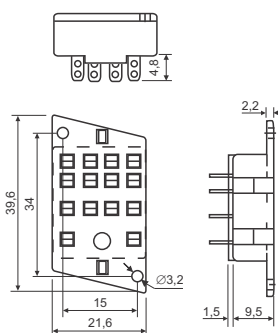
Recorte do painel
Panel cutout



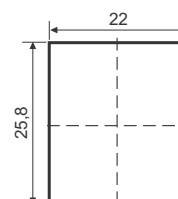
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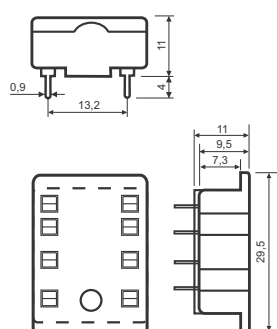
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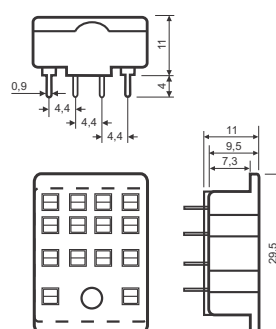
Recorte do painel
Panel cutout



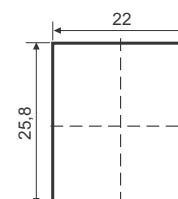
MSO2CI



MSO4CI

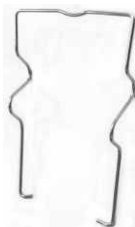


Recorte do painel
Panel cutout



Acessórios

PM-TNA



Presilha metálica / Metal retaining clip
Uso com soquetes PRT5 / Metal retaining clip

Interfaces

PRY



Interface com terminais parafuso.
(Soquete PRT55 + Relé TNA)

PRYM



Interface com terminais mola.
(Soquete PRT55M + Relé TNA)

Contatos	Corrente	Tensão	Relé	Soquetes	Interface
2 Reversíveis (2NA/NF)	10A	12VCC	TNA2RC2	PRT55	PRY-2RC2
				PRT55M	-
		24VCC	TNA2RC3	PRT55	PRY-2RC3
				PRT55M	-
		125VCC	TNA2RC66	PRT55	PRY-2RC66
				PRT55M	-
		24VCA	TNA2RA22	PRT55	PRY-2RA22
				PRT55M	-
		110VCA	TNA2RA3	PRT55	PRY-2RA3
				PRT55M	-
		220VCA	TNA2RA4	PRT55	PRY-2RA4
				PRT55M	-
4 Reversíveis (4NA/NF)	5A	12VCC	TNA4RC2	PRT55	PRY-4RC2
				PRT55M	PRYM-4RC2
		24VCC	TNA4RC3	PRT55	PRY-4RC3
				PRT55M	PRYM-4RC3
		125VCC	TNA4RC66	PRT55	PRY-4RC66
				PRT55M	PRYM-4RC66
		24VCA	TNA4RA22	PRT55	PRY-4RA22
				PRT55M	PRYM-4RA22
		110VCA	TNA4RA3	PRT55	PRY-4RA3
				PRT55M	PRYM-4RA3
		220VCA	TNA4RA4	PRT55	PRY-4RA4
				PRT55M	PRYM-4RA4