

- Electromechanical and SSR (solid state relay) versions
- AC or DC coils
- Sockets with screw or spring terminals
- Relays with LED state indicator and mechanical actuator
- Parallel busbars and noise filters.

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HR10

- Slim relay with socket width of just 6.2mm
- 1 changeover contact
- · Electromechanical version
- In 6A
- Sockets with built-in LED
- Sockets with screw or spring terminals
- Control voltage from 12 to 230VAC/DC
- · Parallel busbars.



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HR20

- Slim relay with socket width of just 6.2mm
- 1 solid-state (SSR) output
- Output current 2A in AC and 4A in DC
- · Sockets with built-in LED
- Sockets with screw or spring terminals
- Control voltage 24VDC
- · Parallel busbars.



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HR30

- · Miniature relay
- 1 or 2 changeover contacts
- In 10A (16A on PCB)
- · Versions with AC or DC control
- · Sockets with screw or spring terminals
- Parallel busbars.



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HR50

- · Miniature relay
- 1 or 2 changeover contacts
- In 10A
- LED and mechanical state indicator
- · Mechanical test actuator with latch option
- Versions with AC or DC control
- Sockets with screw or spring terminals
- Parallel busbars.



Page 20-7

HR60

- Industrial relay
- 2 or 4 changeover contacts
- In 7A or 5A
- · LED and mechanical state indicator
- Mechanical test actuator with latch option
- Versions with AC or DC control.



Page 20-8

HR70

- 8-pin and 11-pin industrial relay
- 2 or 3 changeover contacts
- In 10A
- LED and mechanical state indicator
- Mechanical test actuator with latch option
- · Versions with AC or DC control.





Relays		Code	Contacts	Rated	Control		Sockets		
	in the	HRA10 1C E024	1 C/O	current 6A	voltage 24VAC/DC	Ver	sion with relay		
	ĺ.	HRA10 1C E024S®	1 C/O	6A	24VAC/DC		mbled on sock		
	lik .	AIIA 10 LUZ40	1 0/0	U/I	27V10/D0	+			
S									
SLIM RELAYS	*	HR10 1C E012	1 C/O	6A	12VAC/DC ❸	IID4V 0004 IID4V 00040 -	10	(*	1
Œ ≅		HR10 1C E024	1 C/O	6A	24VAC/DC ❸	HR1X S024 - HR1X S024S0	lia .	la.	
SLII		UD40 40 F0C0	4.0/0	0.4	110125VAC/DC❷	HR1X \$110 - HR1X \$110\$@	i i		
		HR10 1C E060	1 C/O	6A	220240VAC/DC2	HR1X S230 - HR1X S230S ⊙	1	f	
		HR20 1A S024	1 SSR	2A (AC)	24VDC	HR1X S024 - HR1X S024S0			
		HR20 1D S024	1 SSR	4A (DC)	24VDC	111111111111111111111111111111111111111	_	w-	
		HR30 1C D012	1 C/O	16A ④	12VDC		Max 10A		
		HR30 1C D024	1 C/O	16A 4	24VDC				
တ		HR30 1C A024	1 C/O	16A 4	24VAC				
ΕĀ		HR30 1C A110	1 C/O	16A ④	110VAC				
MINIATURE RELAYS	310	HR30 1C A230	1 C/O	16A ⊕	230VAC	-			
E	(23)	UD20 20 D040	0.0/0	0.0	10//DC	UDEN 004			
N	400	HR30 2C D012	2 C/O	8A • A	12VDC	HR5X S21 Screw terminals.			
Ξ		HR30 2C D024 HR30 2C A024	2 C/O 2 C/O	8A 8A	24VDC 24VAC	HR5X S21 Screw terminals. Contact terminals all o	n upper side.		
		HR30 2C A024 HR30 2C A110	2 C/O	8A	110VAC	0.0			
		HR30 2C A230	2 C/O	8A	230VAC	+			
					2000,10	20			
		HR50 1C D012	1 C/O	16A 4	12VDC	HR5X S22 Screw terminals.			
		HR50 1C D024	1 C/O	16A 4	24VDC	Screw terminals.			
		HR50 1C D048	1 C/O	16A 4	48VDC	100			
Ω		HR50 1C D110	1 C/O	16A ④	110VDC	22			
MINIATURE RELAYS WITH LED STATE INDICATOR AND MECHANICAL ACTUATOR		HR50 1C A024	1 C/O	16A 4	24VAC	_			
WITI WATI	1	HR50 1C A110	1 C/O	16A ④	110VAC	****			
YS V VTOF		HR50 1C A230	1 C/O	16A ④	230VAC	HR5X S21S⊕ Spring terminals.			
AL A						Spring terminals.			
A I I		HR50 2C D012	2 C/O	8A	12VDC	9			
E E		HR50 2C D024	2 C/O	8A	24VDC	1919			
M		HR50 2C D048	2 C/O	8A	48VDC				
≥		HR50 2C D110	2 C/O	8A	110VDC				
		HR50 2C A024	2 C/O	8A	24VAC				
		HR50 2C A110 HR50 2C A230	2 C/O 2 C/O	8A 8A	110VAC 230VAC	_			
		HN30 26 A230	2 0/0	OA	230VAG				
ш		HR60 2C D012	2 C/O	7A	12VDC	INCOME INCOME INCOME	LIDOV 000	IIDOV 0040 O	
STAT L		HR60 2C D024	2 C/O	7A	24VDC	HR6X S21 Screw		HR6X S21S⊕ Spring	
ED S		HR60 2C A024	2 C/O	7A	24VAC	terminals.	terminals.	terminals.	
HAN		HR60 2C A110	2 C/O	7A	110VAC	terminals. Contact terminals on	ø	} !	
INDUSTRIAL RELAYS WITH LED STATE Indicator and Mechanical Actuator		HR60 2C A230	2 C/O	7A	230VAC	upper side.			
AYS ND I	The state of the s]
REL ACT	A. 100	HR60 4C D012	4 C/O	5A	12VDC	HR6X S41		##### HR6X \$41\$€	
IAL	No.	HR60 4C D024	4 C/O	5A	24VDC	Screw	Screw	Spring	
STR		HR60 4C A024	4 C/O	5A	24VAC	terminals. Contact	terminals.	terminals.	
		HR60 4C A110	4 C/O	5A	110VAC	terminals on upper side.	/9	F	
=		HR60 4C A230	4 C/O	5A	230VAC	appor side.		# - #	
S		UD70 20 D004	0.0/0	104	241/DC		0 nin		T
LAY □		HR70 2C D024	2 C/O	10A	24VDC	-	8-pin		
R AN		HR70 2C D110 HR70 2C A024	2 C/O 2 C/O	10A 10A	110VDC 24VAC	HR7X S1			
RIAI ATO ATO		HR70 2C A024	2 C/O	10A 10A	110VAC	Screw terminals.			
8-PIN AND 11-PIN INDUSTRIAL RELAYS With Led State Indicator and Mechanical actuator		HR70 2C A230	2 C/O	10A	230VAC	0000			
IN I	1000				2000,10				1
TATI	VSVA BOTH	HR70 3C D024	3 C/O	10A	24VDC		11-pin		1
TI-I SD S		HR70 3C D110	3 C/O	10A	110VDC	(23323)			
MEC	4	HR70 3C A024	3 C/O	10A	24VAC	HR7X S2			
N W		HR70 3C A110	3 C/O	10A	110VAC	Screw terminals.			
8-P		HR70 3C A230	3 C/O	10A	230VAC	00000			<u></u>

Code Relatining citys Code Market tags Code Seathers Code								
HRSX 88 HRSX 300 HRSX 9008 (black) HRSX 87 HRSX 88 HRSX 300 HRSX 9008 (black) HRSX 87 HRSX 87 HRSX 88 HRSX 300 HRSX 300 HRSX 9008 (black)	Code	Retaining clips	Code	Marker tags	Code	Parallel busbars	Code	Noise filters
HRSX 30 HRSX 88 HRSX 8008 (black) HRSX 87 HRSX 8008 (black)		Included in the socket			HR1X 9020 (black)			
HR5X 30 HR5X 9008 (black) HR5X 9008 (black) HR5X 87 HR6X 78024 (624VDC) HR6X 78024 (624VDC) HR6X 78024 (624VDC)					HR1X 9120 (red)			
HR5X 30 HR5X 9008 (black) HR5X 9008 (black) HR5X 9008 (black) HR5X 87 HR5X 9008 (black) HR5X 88 HR5X 30 HR6X 78024 (624VDC) Diode + LED HR6X 78024 (624VDC)	HR3X 88	4						
HR6X 88 HR6X 30 HR6X 30			HR5X 30		HR5X 9008 (black)	8 poles	HR6X 77024 (624VAC/DC) HR6X 77230 (110230VAC/DC) Diode + LED	10
HR6X 88 HR5X 30	HR5X 87	F					HR6X 78024 (624VDC)	
HR6X 88 HR5X 30								
HR5X 30 (only for sockets with spring terminals)	HR6X 88		HR6X 30					
		HR5X 30 (only for sockets	with spring terminals)					



- Final S in code indicates spring terminals.
 Voltage dependent on selected relay socket.
 AC voltage only if linked to socket.
 Rated current if the relay is soldered directly onto the board; with socket the maximum current is 10A.
 Not suitable for sockets with spring terminals.

new

nev

new



Slim relays



HRA10...



new



HR20...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg			
			[A]		no.			
Slim electromechanical relays assembled on the socket								

HRA10 1C E024	24VAC/DC	1 C/O	6	Screw terminals	10		
HRA10 1C E024S	24VAC/DC	1 C/O	6	Spring terminals	10		
Clim electromachanical valous							

Slim electromechanical relays.

HR10 1C E012	12VDC	1 C/O	6	12VAC/DC control when on HR1XS024 or HR1XS024S socket	20
HR10 1C E024	24VDC	1 C/O	6	24VAC/DC control when on HR1XS024 or HR1XS024S socket	20
HR10 1C E060	60VDC	1 C/O	6	110125VAC/DC control when on HR1XS110 or HR1XS110S socket. 220240VAC/DC control when on HR1XS230 or HR1XS230S socket	20

Slim SSR (solid state relay) relays.

		,,	,			
	HR20 1A S024	24VDC	1 SSR	2	Output	10
,					24280VAC	
	HR20 1D S024	24VDC	1 SSR	4	Output	10
					328VDC	

General characteristics

General Characteristics

Slim-type relays have a reduced width that permits considerable optimisation of space. All sockets are equipped with supply indicator LED and retain/release clips. The availability of electromechanical and solid-state (SSR) versions permits the installation of the most technically suitable solution in accordance with system requirements. The socket terminals can be screw or spring type.

The parallel busbars make for quick wiring.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12, 24, 60VDC
- Relay control voltage + socket: 12, 24, 110...125, 220...240VAC/DC
- Max controllable power in AC-1: 1500W
- Max controllable power in AC-15: 360VA.

Certifications and compliance

Certifications obtained: cURus, EAC, VDE for electromechanical relay, cURus, TÜV for SSR relay. Compliant with standards: IEC/EN61810 for electromechanical relays, IEC/EN62314 for SSR.

Sockets



HR1X S... HR1X S...S

Order code	Control voltage	Terminals	Description	Qty per pkg		
	AC/DC			no.		
Sockets for relays.						
HR1X S024	1224V	Screw	Use with relay HR1010E012,	10		

OUCKCIS IOI TOIAYS	•			
HR1X S024	1224V	Screw	Use with relay HR1010E012, HR1010E024 and HR20	10
HR1X S110	110125V	Screw	Use with relay HR1010E060	10
HR1X S230	220240V	Screw	Use with relay HR1010E060	10
HR1X S024S	1224V	Spring	Use with relay HR1010E012, HR1010E024 and HR20	10
HR1X S110S	110125V	Spring	Use with relay HR1010E060	10
HR1X S230S	220240V	Spring	Use with relay HR1010E060	10

General characteristics

 $\label{eq:hamman} \mbox{HR1X...} \mbox{ sockets are equipped with supply indicator LED}$ and retain/release clips. The socket terminals can be screw or spring type. Parallel busbars can be fitted to the sockets, for quick wiring. These busbars plug in, on both the screw and spring sockets, leaving the cable entry terminals free.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12, 24, 60VDC
- Relay control voltage + socket: 12, 24, 110...125, 220...240VAC/DC
- Green indication LED
- Fitting on DIN rail.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.

Accessories





Order code	Description	Qty per pkg
		no.
HR1X 30	Marker tags	100
HR1X 3016	Marker tags - strip with 16 plates	20
HR1X 9020	20-pole parallel busbar - black	10
HR1X 9120	20-pole parallel busbar - red	10





HR1X 9120

Order code

Control



Miniature relays



HR30..

order code	voltage	Contacto	current	Босоприон	per pkg
			[A]		no.
Miniature relays.					
HR30 1C D012	12VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C D024	24VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A024	24VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A110	110/120VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	20
HR30 1C A230	230VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	20
HR30 2C D012	12VDC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C D024	24VDC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C A024	24VAC	2 C/O	8	Fitting on socket HR5XS2	20
HR30 2C A110	110VAC	2 C/O	8	Fitting on socket	20

Contacts Rated Description

2 C/O

HR5XS2. Fitting on socket

HR5XS2

20

General characteristics

Miniature relays have compact dimensions but high functional performance. It's the ideal device for those looking for a cost-effective solution without compromising performance.

Operational characteristics

- Rated insulation voltage: 250VRated impulse withstand voltage: 4kV
- Relay control voltage: 12 and 24VDC 24, 110 and 230VAC, 50/60Hz
- Max controllable power in AC-1 (1C/2C): 4000/2000W Max controllable power in AC-15 (1C/2C): 300/150VA
- Maximum current (1C/2C): 16A/10A.

Certifications and compliance

Certifications obtained: cURus, EAC, VDE. Compliant with standards: IEC/EN61810.

Sockets





HR5X S21 HR5X S22 HR5X S21S

Order code	Description	Qty per pkg
		no.

Sockets for relays (supplied without retain/release clip) for fitting on DIN rail or with screws.

Terminal layout see page 20-10.

230VAC

HR30 2C A230

HR5X S21	HR5X S21 Screw terminals, contact terminals all on upper side				
HR5X S22	Screw terminals	10			
HR5X S21S	Spring terminals	10			

General characteristics

HR5X... series sockets can have screw terminals or spring terminals for quick wiring. Screw terminals are available in 2 versions: with contact terminals separated from the coil terminals or with NC contact terminals near the coil terminals. Noise filters, parallel busbars and plates for writing can be snap-fitted to the sockets.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.

Accessories



HR3X 88







Order code	Description	Qty per pkg
		no.
HR3X 88	Retain/release clip	20
HR5X 30	Marker tags	100
HR6X 78 024	Plug-in noise filters. 624VDC with LED	10
HR6X 77 024	Plug-in noise filters. 624VAC/DC	10
HR6X 77 230	Plug-in noise filters. 110230VAC/DC	10
HR5X 9008	8-pole parallel busbar - black - for sockets with screw terminals	10

[•] Rated current if the relay is soldered directly onto the board; with socket the maximum



Miniature relays with **LED** state indicator and mechanical actuator



Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg	
			[A]		no.	
Miniature relays with LED state indicator and mechanical actuator						

			[/1]		110.
Miniature relays v	vith LED state	indicator ar	nd mechanic	cal actuator.	
HR50 1C D012	12VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C D024	24VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C D048	48VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C D110	110VDC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C A024	24VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C A110	110/120VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 1C A230	230VAC	1 C/O	160	Fitting on socket HR5XS2 (max 10A)	10
HR50 2C D012	12VDC	2 C/O	8	Fitting on socket HR5XS2	10
HR50 2C D024	24VDC	2 C/O	8	Fitting on socket HR5XS2	10
HR50 2C D048	48VDC	2 C/O	8	Fitting on socket HR5XS2	10
HR50 2C D0110	110VDC	2 C/O	8	Fitting on socket HR5XS2	10

2 C/O

2 C/O

2 C/O

8

8

8

Fitting on socket

Fitting on socket

Fitting on socket

HR5XS2

HR5XS2.

HR5XS2

10

10

10

General characteristics

HR50 miniature relays have reduced dimensions and, in addition to the high electrical performance, are equipped with the following functions: LED to indicate voltage on the coil, mechanical contact state indicator and mechanical test actuator. The mechanical actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

Operational characteristics

- Rated insulation voltage: 250V (400V with pollution degree 2)
- Rated impulse withstand voltage: 10kV
- Relay control voltage: 12 and 24VDC 24, 110 and 230VAC, 50/60Hz
- Max controllable power in AC-1 (1C/2C): 4000/2000W
- Max controllable power in AC-15: 150VA
- Maximum current (1C/2C): 16A/8A.

Certifications and compliance

Certifications obtained: cURus, EAC, VDE. Compliant with standards: IEC/EN61810.

Sockets



new



HR5X S21 HR5X S22 HR5X S21S

Order code	Description	Qty per pkg	
		no.	

Sockets for relays (supplied without retain/release clip), for fitting on DIN rail or with screws.

Terminal layout see page 20-10.

HR50 2C A024

HR50 2C A110

HR50 2C A230

24VAC

230VAC

110/120VAC

	pg	
HR5X S21	Screw terminals, contact terminals all on upper side	10
HR5X S22	Screw terminals	10
HR5X S21S	Spring terminals	10

General characteristics

HR5X.. series sockets can have screw terminals or spring terminals for quick wiring. Screw terminals are available in 2 versions: with contact terminals separated from the coil terminals or with NC contact terminals near the coil terminals. Noise filters, parallel busbars and plates for writing can be snap-fitted to the sockets.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.

Accessories





HR5X 87 HR5X 30



20-6



HR6X 78 024



Order code	Description	Qty per pkg
		no.
HR5X 87	Retain clip	20
HR5X 30	Marker tags	100
HR6X 78 024	Plug-in noise filters. 624VDC with LED	10
HR6X 77 024	Plug-in noise filters. 624VAC/DC (RC)	10
HR6X 77 230	Plug-in noise filters. 110230VAC/DC (RC)	10
HR5X 9008	8-pole parallel busbar - black	10

Rated current if the relay is soldered directly onto the board; with socket the maximum current is 10A.

new



Industrial relays with LED state indicator and mechanical actuator



HR60...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.
Industrial relays v	vith LED state	indicator ar	nd mechanio	cal actuator.	
HR60 2C D012	12VDC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C D024	24VDC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A024	24VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A110	110/120VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 2C A230	230VAC	2 C/O	7	Fitting on socket HR6XS2	10
HR60 4C D012	12VDC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C D024	24VDC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A024	24VAC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A110	110VAC	4 C/O	5	Fitting on socket HR6XS4	10
HR60 4C A230	230VAC	4 C/O	5	Fitting on socket HR6XS4	10

General characteristics

HR60-type industrial relays are available in 2/4-changeover-contact versions. They are equipped with LEDs that indicate control voltage, a mechanical contact state indicator and a mechanical actuator. The actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 12 or 24VDC- 24, 110 and 230VAC, 50/60Hz
- Max controllable current in AC-1 (2C/4C): 7/5A
- Maximum current (2C/4C): 7A/5A.

Certifications and compliance

Certifications obtained: cURus, EAC, VDE. Compliant with standards: IEC/EN61810.

Sockets





HR6X S21

3333

9999

new

HR6X S41



HR6X S42

HR6X S41S

new

Order code	Description	Qty per pkg
		no.

Sockets for relays (supplied without retein/release clip) for fitting on DIN rail or with screws.

Terminal layout see page 20-10.

For relays with 2 changeover contacts.

HR6X S21 Screw terminals, contact terminals all on upper side			
HR6X S22 Screw terminals			
HR6X S21S Spring terminals			
For relays with 4 of	changeover contacts.	,	
HR6X S41 Screw terminals, contact terminals all on upper side			
HR6X S42	Screw terminals	10	
HR6X S41S	Spring terminals	10	

General characteristics

HR6X.. series sockets have screw terminals and are supplied in two versions for relays with 2 or 4 contacts. Noise filters and plates for writing can be plugged in to the sockets.

They can be fixed on DIN rails or with screws.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A
- Terminal layout see page 20-10.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.

Accessories



HR6X 88



HR5X 30



Order code	Description	Qty per pkg
		no.
HR6X 88	Retain/release clip	20
HR6X 30	Marker tag for sockets with screw terminals	100
HR5X 30	Marker tag for sockets with spring terminals	100
HR6X 78 024	Plug-in noise filters. 624VDC with LED	10
HR6X 77 024	Plug-in noise filters. 624VAC/DC	10
HR6X 77 230	Plug-in noise filters. 110230VAC/DC	10

Dimensions page 20-9

new

new

new



8-pin and 11-pin industrial relays with **LED** state indicator and mechanical actuator



HR70...

Order code	Control voltage	Contacts	Rated current	Description	Qty per pkg
			[A]		no.

Industrial relays with LED state indicator and mechanical actuator. 8-pin type

o pin typo.							
HR70 2C D024	24VDC	2 C/O	10	Fitting on socket HR7XS1	10		
HR70 2C D110	110VDC	2 C/O	10	Fitting on socket HR7XS1	10		
HR70 2C A024	24VAC	2 C/O	10	Fitting on socket HR7XS1	10		
HR70 2C A110	110/120VAC	2 C/O	10	Fitting on socket HR7XS1	10		
HR70 2C A230	230VAC	2 C/O	10	Fitting on socket HR7XS1	10		

Industrial relays with LED state indicator and mechanical actuator.

i i piii typo.					
HR70 3C D024	24VDC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C D110	110VDC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A024	24VAC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A110	110/120VAC	3 C/O	10	Fitting on socket HR7XS2	10
HR70 3C A230	230VAC	3 C/O	10	Fitting on socket HR7XS2	10

General characteristics

HR70-type industrial relays are available in 2/3-changeover-contact versions. They are equipped with LEDs that indicate control voltage, mechanical contact state indicator and mechanical actuator. The actuator is particularly useful for performing functional tests; it can also keep the relay closed continuously.

HR70 has high electrical endurance performance and

lends itself to the most heavy-duty applications.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Relay control voltage: 24VDC- 24, 110 and 230VAC, 50/60Hz
- Maximum current: 10A.

Certifications and compliance

Certifications obtained: cURus, EAC. Compliant with standards: IEC/EN61810.

Sockets



HR7X S1

Order code	Description	Qty per pkg
		no.

Sockets for relays (supplied without retaing clip), for fitting on DIN rail or with screws.

Terminal layout see page 20-11.

HR7X S1	8-pin for HR70 2C Screw terminals	10
HR7X S2	11-pin for HR70 3C Screw terminals	10

General characteristics

HR7X.. series sockets have screw terminals and are supplied in two versions for relays with 2 or 3 contacts (8-pin - 11-pin). They can be fixed on DIN rails or with screws.

Operational characteristics

- Rated insulation voltage: 250V
- Rated impulse withstand voltage: 4kV
- Maximum current: 10A.

Certifications and compliance

Certifications obtained: cURus, CSA, EAC. Compliant with standards: IEC/EN61810.



HR7X S2

Accessories



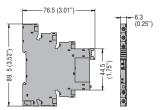
HR7X 87

Order code	Description	Qty per pkg
		no.
HR7X 87	Metal retaining clip	20

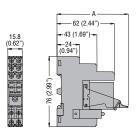
Dimensions [mm(in)]



HRA10... - HR10... - HR20 with socket HR1XS...

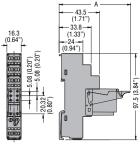


HR30... - HR50... with socket HR5XS21



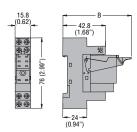
A: 65mm (2.56") con HR3X88 75mm (2.95") con XR5X88

HR30... - HR50... with socket HR5XS21S



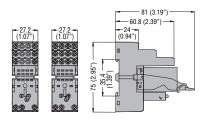
A: 65mm (2.56") con HR3X88 75mm (2.95") con XR5X88

HR30... - HR50... with socket HR5XS22

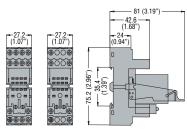


B: 72.5mm (2.85") con HR3X88 82.5mm (3.25) con XR5X88

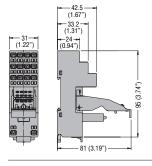
HR60 4C... with socket HR6XS41 - HR6XS42



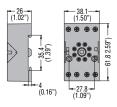
HR60 2C... with socket HR6XS21 - HR6XS22



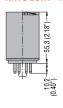
HR60 2C... - HR60 4C... with socket HR6XS21S - HR6XS41S



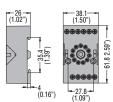
HR7XS1



HR70 2C... - HX70 3C...



HR7XS2



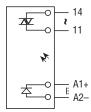
Wiring diagrams



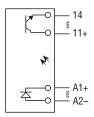
HR101C..., HRA101C...



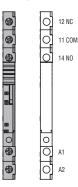
HRA201A...



HRA201D...



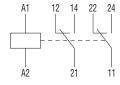
HR1XS...



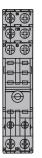








HR5XS21





22 (12)

21 (1)

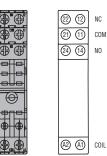
24 (14)

(A2) (A1) COIL

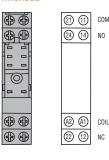
NC

COM

HR5XS21S



HR5XS22



HR501C...

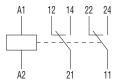
HR602C...

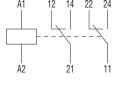
A2/14

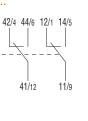
41/12

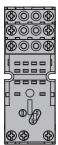


HR502C...

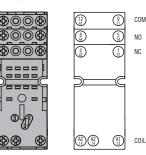




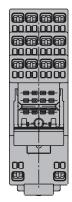


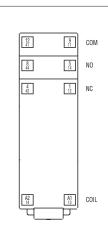


HR6XS21

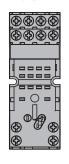


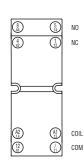
HR6XS21S





HR6XS22





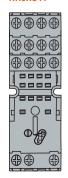
Wiring diagrams

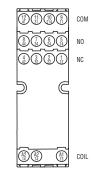


HR604C...

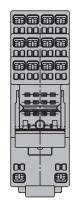


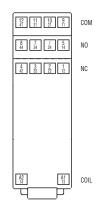
HR6XS41



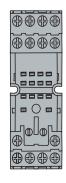


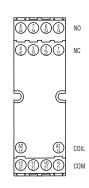
HR6XS41S



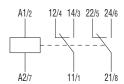


HR6XS42



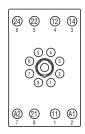


HR702C...

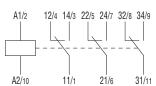




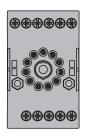


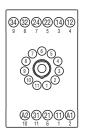


HR703C...



HR7XS2





General purpose relaysTechnical characteristics



Туре	HRA10 HR10	HR20 1AS024	HR20 1DS024	HR30 1C	HR30 2C		
CHARACTERISTICS OF THE CONTACTS							
Contact configuration		1 C/O	1 static	1 static	1 C/O	2 C/O	
Rated insulation voltage Ui	VAC/DC	250	2500 (input/output)	2500 (input/output)	250	250	
Rated impulse withstand voltage Uimp	kV	4	-	-	6	6	
Conventional free air thermal current Ith	А	6	2	4	16@	8	
Maximum instantaneous current	А	20 (500ms)	80 (10ms)	48 (10ms)	60❶	200	
Rated operating voltage AC1	VA	1500	4	6	4000	2000	
Rated operating voltage AC15 (230 V AC)	VA	360	4	6	300❶	150❶	
Single-phase motor control (230 V AC)	kW	0.186	4	6	0.4	0.2	
Rated operating voltage DC1: 30/110/220 V	А	6 / 0.2 / 0.12	4	6	12 /0.3 / 0.1	8 /0.3 / 0.1	
Minimum switching load	V / mA	5 / 100	24 /0.1	3 / 0.02	5/	100	
Contact impedance	mΩ	100	-	-	10	00	
Contact material		Ag/Ni	-	-	AgS	5n02	
Max socket terminal tightening torque	Nm		0.5		0	.6	
Socket screw tightening tool (cross / flat blade)			Phillips 0 / 3.5mm		Phillips 1	/ 4.5mm ❸	
Wire section on sockets with screw terminals	mm²		0.51.5		0.5.	2.5	
(minmax)	AWG		2016		20.	14	
OPERATING TIMES							
Closing	ms	≤8	10	0.3	10	ms	
Opening	ms	≤4	10	0.3	51	ns	
ENDURANCE		•					
Mechanical	Cycles	10,000,000	Theoretic	ally infinite	10,00	0,000	
Electrical with load AC1	Cycles	30,000● Theoretically infinite		50,0	000		
COIL CHARACTERISTICS							
Average coil consumption AC at 20°C	VA	-	_	-	0	.9	
Average coil consumption AC at 20°C	W	0.2/0.2	_	-	0.	45	
Operating range: closing	(% Un)	≥75	80120	80120	70110 AC/	75110 DC	
opening	(% Un)	≥5			2055 AC/	1030 DC	
Maximum cycle frequency	cycles/h	10,000	>100,000	>100,000	3,6	600	
AMBIENT CONDITIONS							
Operating temperature	°C	-40+70	-30.	+80	-40.	+85	
Storage temperature	°C	-40+80	-30	.+100	-40.	+85	
Fitting position				Any			
OTHER CHARACTERISTICS							
Indicator LED			Yes (on the socket)			No	
Mechanical contact position indicator No No			lo				
Mechanical test actuator No No							
Socket fixing			On 35mm DIN rail		On 35mm DIN ra	il and with screws	

NO contact.
Maximum socket current of 10A.
2.5mm flat blade for versions with spring terminals.
2A output 24...280VAC.
4A output 3...28VDC.

General purpose relays Technical characteristics



HR50 1C	HR50 2C	HR60 2C	HR60 4C	HR70 2C	HR70 3C
1 C/O	2 C/O	2 C/O	4 C/O	2 C/O	3 C/O
250		500		2	250
6		4			6
16@	8	7	5	10	10
20 ●	100	_	_	_	_
4000	2000	1750	1250	2500	2500
150 0	150 ⊙	150 ⊙	150❶	500	500
0.1	-	0.37	0.37	1.2	1.2
12 /0.3 / 0.1	8 /0.3 / 0.1	12 /0.3 / 0.1	8 /0.3 / 0.1	10/-/-	10/-/-
5/1	100	5/	100	5 /	100
10	00	10	00	100	
Aga	/Ni	Ag	/Ni	Ag/Ni	
0.	6	0.6		0.6	
Phillips 1 /	4.5mm ❸	Phillips 1 / 4.5mm		Phillips 1 / 4.5mm	
 0.5	.2.5	0.52.5		0.52.5	
2014		2014		2014	
		·			
15r	ns	25ms		30ms	
15ms		25ms		30	Oms
		•			
10,00	0,000	20,000,000		5,00	00,000
50,000❶	20,000❶	100	,000	100	0,000
1		1.7		3	
0.	4	1.1		1.5	
70110 AC/		70110 AC/ 75110 DC		70110 AC/ 75110 DC	
 2055 AC/	1030 DC	2055 AC/ 1030 DC		2055 AC/ 1030 DC	
3,6	00	3,600			
-40+85		-40+70		-40+55	
-40	.+85	-40+80		-40+70	
	·	ŀ	Any		·
Yes		Yes		Yes	
Ye		Yes		Yes	
Yı	es	Yes		Yes	
On 35mm DIN rail	and with screws	On 35mm DIN rail and with screws		On 35mm DIN rail and with screws	

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GUZ32S GUZ63L GUZ95L AS-11 AX-4MS-31 AX-4MS-40 2-1608090-3 PB-16 SM2S-61 SQ9Z-C SYSWINSMP AR-12MW AR-400

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