# **BIR Impulse Relays**

# HIR Impulse relay

## Reliable Quality

Continue operation 10000 times action reliable and accurately respond to commands

#### Hum Free

Reduce the Pull-in noise

#### Hide the clamp holder

The concealed lamp had patented make an auxiliary that is more flexible and easy to mounting, which not only improves the aesthetics of the product, but also increases the strength of the device

### Class H high temperature resistant enameled wire

Automatic winding process to ensure reliable opening and closing of the coil

#### Easy Operation

Through O-I shift to priority manual control directly. The handle position as mechanical indicator





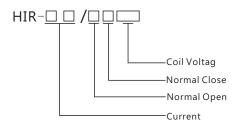
#### 1 Applicable scope

HIR series impulse relay coils are triggered by impulses and the contacts are closed. The product has two stable mechanical positions, and the contacts will open temporarily with the next impulse. Each received impulse will reverse the position of the contact and can be controlled by an unlimited number of buttons. And has the characteristics of zero power consumption.

Impulse relay can be used to control the lighting circuit through the button. The circuit consists of incandescent lamps, halogen lamps, etc. (resistive load); fluorescent lamps, discharge lamps, etc. (inductive load).

Conform to standard: IEC/EN 60669-2-1,IEC/EN 60669-2-2

#### 2 Type and Meaning



(eg.HIR-16/10 DC12V,It is16A,1NO,12V DC current coil voltage)

## 3 Product specification







Contactor Model	Ie	Uc (V)(50Hz)	Circuit Diagram
HIR-16/10	16A		A1
HIR-16/20	16A	AC24V/DC12V AC48V/DC24V	1   3   A1   A2   A2
HIR-16/11	16A	AC110V/DC48V AC230V/DC110V	1 3  A1 
HIR-16/1C	16A		1  A1     2  4  A2

# **HIR Impulse Relays**





Contactor Model	Ie	Uc (V)(50Hz)	Circuit Diagram
HIR-16/30	16A	AC24V/DC12V AC48V/DC24V	1 A1 3 5 2 A2 4 6
HIR-16/21	16A	AC110V/DC48V AC230V/DC110V	1 3 A1 5 

# 4P,2modules



Contactor Model	Ie	Uc (V)(50Hz)	Circuit Diagram
HIR-16/40	16A		1 3 A1 5 7 
HIR-16/31	16A	AC24V/DC12V	J <sup>1</sup> J <sup>3</sup> A1 J <sup>5</sup> J <sup>7</sup>
		AC48V/DC24V	7/ <sub>2</sub> / <sub>4</sub> / <sub>A2</sub> / <sub>6</sub> / <sub>8</sub>
HIR-16/22	16A	AC110V/DC48V	J <sup>1</sup> J <sup>3</sup> A1 J <sup>5</sup> J <sup>7</sup> 
		AC230V/DC110V	2  4 A2
HIR-16/2C	16A		1 A1 5 2 4 A2 6 8

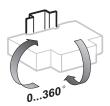


# 4 Main parameter and technical performance

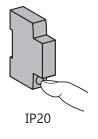
Control circuit					
Dissipated power (during	the impulse)	19 VA			
Illuminated PB control		Max. current 3 mA (if > use an ATLz)			
Operating threshold		Min. 85 % of Un			
Duration of the control o	rder	50ms to 1s (200ms recommended)			
Response time		50ms			
Power circuit					
Voltage rating (Ue)	1P,2P	250V AC			
Frequency		50/60Hz			
Maximum number of ope	erations per minute	5			
Maximum number of swi	tching operation	100			
Endurance		200,000 cycles (AC21)			
Endurance		100,000 cycles (AC22)			
Overvoltage category		IV			
Insulation voltage (Ui)		440V AC			
Pollution degree		3			
Rated impulse withstand	voltage (Uimp)	6kV			
Degree of protection	Device only	IP20			
(IEC 60529)	Device in modular	IP40 (Insulation class II)			
Operating temperature		-5°C∼+60°C			
Storage temperature		-40°C∼+70°C			
Tropicalization(IEC 6006	8.1)	Treatment 2 relative humidity 95 % at 55℃			



Clip on DIN rail 35 mm

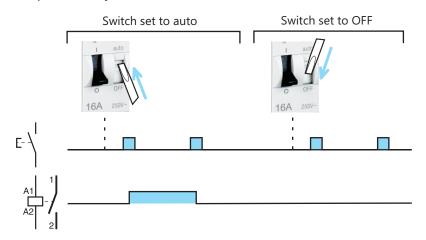


In different position of installation



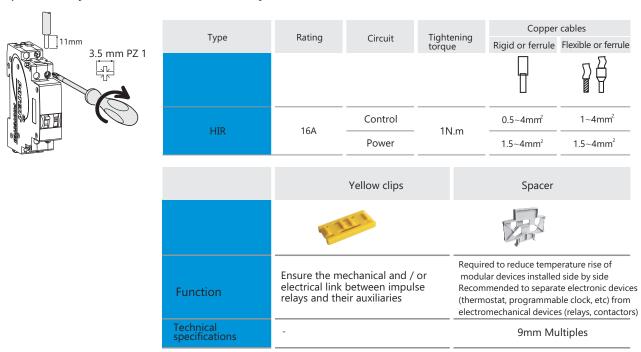


5 Operation(Impluse relay)



# **HIR Impulse Relays**

## 6 Impulse relay connection and auxiliary



#### 7 Impulse relay multi-pole connection description



Connection ring 1 piece Connection lever 1 piece Connection block 1 Piece Hide Clamp holder 2 pieces



Make the impulse relay interface to be connected



Put Connection ring, connection lever, connection block and hide clamp holder in slot



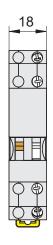
Make press ensure connection solid

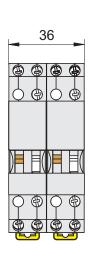


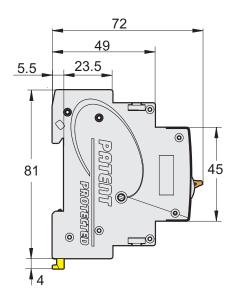
# 8 Packing information

Туре	BOX QTY	CTN QTY	G.W. (kg)	N.W. (kg)	CARTON SIZE (mm)
HIR-16/10	12	120	13	11.4	440×300×200
HIR-16/20	12	120	13.96	12.36	440×300×200
HIR-16/11	12	120	13.84	12.24	440×300×200
HIR-16/1C	12	120	13.36	11.76	440×300×200
HIR-16/30	6	60	13. 66	12. 06	440×300×200
HIR-16/21	6	60	13. 6	12	440×300×200
HIR-16/40	6	60	14.2	12.6	440×300×200
HIR-16/31	6	60	13.9	12.3	440×300×200
HIR-16/22	6	60	13.9	12.3	440×300×200
HIR-16/2C	6	60	13.42	11.82	440×300×200

# 9 Product dimensions (mm)







# Modular contactor and Impulse relay

## Choice of rating according to load type

Modular contactors and impulse relays do not use the ■ The table below shows the maximum number of light fittings for each relay, according to the type, power and configuration of a given lamp. As an indication, the total acceptable power is

■ These values are given for a 230 V circuit with 2 active conductors (single-phase phase/neutral or two-phase phase/phase). For 110 V circuits, divide the values in the table by 2.

■ To obtain the equivalent values for the entire 230 V three-phase circuit, multiply the number of lams and the maximum power output:

 $\ \square$  by (1.73) for circuits with 230 V between phases without neutral;

□ by for circuits with 230 V between phase and neutral or 400 V between phases.

Note: The power ratings of the lamps most commonly used are shown in bold.

same technologies. Their rating is determined according
to different standards and does not correspond to the
rated current of the circuit.
For example, for a given rating, an impulse relay is more

efficient than a modular contactor for the control of light fittings with a strong inrush current, or with a low power factor (non-compensated inductive circuit)

Choice table				For powers no	ot mentioned, use a						
Products			HIR	Impulse relays		HCI	H8 Modular	cont	actors		
Type of lamp	of power fa	and capacitance ctor correction	per c	mum number of ircuit						um po	wer output
	capacitor		16 <i>A</i>		16 A		25 A	4	40 A		
Basic incandescent		ogen lamps, repla			ur lamps (with	out b	allast)				
	40 W		40	1500 W		38	1550 W	57	2300 W	115	4600 W
	60 W		25	to		30	to	45	to	85	to
	75 W		20	1600 W		25	2000 W	38	2850 W	70	5250 W
	100 W		16			19		28		50	
	150 W		10			12		18		35	
	200 W		8			10		14		26	
	300 W		5	1500 W		7	2100 W	10	3000 W	18	5500 W
	500 W		3			4				10	to
	1000 W		1			2				6	6000 W
FIN 12 24 VI	1500 W		1			1				4	
ELV 12 or 24 V halo	· '		70			la <sub>E</sub>		22		40	
With ferromagnetic transformer			70	1350 W		15	300 W	23	450 W	42	850 W
	50 W		28	to		10	to	15	to	27	to
	75 W		19	1450 W		8	600 W	12	900 W	23	1950 W
\A/:+  +: -	100 W		14			6	40=0111	00		18	
With electronic transformer	20 W		60	1200 W		62	1250 W	90	_ 1850 W	182	3650 W
	50 W		25	to		25	to	39	to	76	_ to
	75 W		18	1400 W		20	1600 W	28	2250 W	53	4200 W
et out of	100 W	2.1.11.7	14			16		22		42	
Fluorescent tubes with		romagnetic ballast	02	405014		laa	220144	20	450.144	70	4050144
1 tube without compensation <sup>(1)</sup>	15W 18 W		83 70	1250 W		22 22	330 W	30	450 W	70 70	1050 W
	20 W			to 1300 W		22	to 850 W	30 30	_ to 1200 W	70	_ to 2400 W
	36 W		62 35	1300 W		20	030 44	28	1200 VV	60	2400 VV
	40 W		31			20		28		60	
	58 W		21			13		17		35	
	65 W		20			13		17		35	
	80 W		16			10		15		30	
	115 W		11			7		10		20	
1 *	15 W	5	60	000 14/		15	200 \\	20	200 14/	40	COO 14/
1 tube without with parallel	18 W	5μF 5μF	50	900 W		15	_200 W to	20	_ 300 W to	40	_ 600 W
compensation <sup>(2)</sup>	20 W	5μF	45			15	800 W	20	_ to 1200 W	40	_ to 2400 W
	36 W	5μF	25			15	000 00	20	1200 00	40	2 <del>1</del> 00 VV
	40 W	5μF	22			15		20		40	
	58 W	7μF	16			10		15		30	
	65 W	7μF	13			10		15		30	
	80 W	7μF 7μF	11			10		15		30	
	115 W	7 μ F 16 μ F	7			5		7		14	
2 or 4 tube	2 x 18 W	Τομι	56	2000 W		30	1100 W	46	1650 W	80	2900 W
with seriesl	4 x 18 W		28	_		16	to	24	_ 1650 W	44	_ 2900 W to
compensation	2 x 36 W		28			16	1500 W	24	2400 W	44	3800 W
	2 x 58 W		17			10	1300 **	16		27	
	2 x 65 W		15			10		16		27	
	2 x 80 W		12			"		13		22	
	2 x 115 W		8					10		16	
	_ X 113 VV		٦					10		10	



Choice table (cont)

			HIR	Impulse re	lays	HCH	18 Modulai	cont	actors		
Type of lamp	Unit power ar	nd capacitance or correction	Maxi	mum numb	er of light fittings	for a si	ingle-phase	circuit	and maxim	um po	wer outp
	capacito	or correction	16 A	ircuit		16 A		25 A		40 A	
Fluorescent tubes w	vith electronic b	allast									
1 or 2 tubes	18 W		80	1450 W		74	1300 W	111	2000 W	222	4000 W
	36 W		40	to		38	to	58	to	117	to
	58 W		26	1550 W		25	1400 W	37	2200 W	74	4400 V
	2 x 18 W		40			36		55		111	
	2 x 36 W		20			20		30		60	
	2 x 58 W		13			12		19		38	
Compact fluorescent la	amps										
With external	5 W		240	1200 111		210	1050 W	330	1650 W	670	3350 W
electronic ballast	7 W		171	– 1200 W		150	to	222	to	478	to
	9 W		138	- to		122	1300 W	194	2000 W	383	4000 V
	11 W		118	1450 W		104		163		327	
	18 W		77			66		105		216	
	26 W		55			50		76		153	
With integral	5 W		170	050 \\		160	800 W	230	1650 W	470	2350 V
electronic ballast replacement for	7 W		121	- 850 W		114	to	164	to	335	to
ncandescent lamps)	9 W		100	- to		94	900 W	133	1300 W	266	2600 V
	11 W		86	1050 W		78		109		222	
	18 W		55			48		69		138	
	26 W		40			34		50		100	
Without compensation <sup>(1)</sup>	50W 80W		Not to	ested, infrequ	ent use	15	750 W	20	1000 W	34	1700 V
compensation"	0014/										
						10	to	15	to	27	to
	125/110 W <sup>(3)</sup>					10 8	to 1000 W	15 10	to 1600 W	27 20	
	125/110 W <sup>(3)</sup>		-			8		10		20	
	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup>					8 4		10 6		20 10	
	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W	7μF				8 4 2	1000 W	10 6 4		20 10 6	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup>	7μF 8μF				8 4 2 1		10 6 4 2	1600 W	20 10 6 4	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W	-				8 4 2 1	1000 W	10 6 4 2 15	1600 W	20 10 6 4 28	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup>	8 μ F 10 μ F				8 4 2 1 10 9	1000 W 500 W to	10 6 4 2 15 13	750 W	20 10 6 4 28 25	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup>	8 μ F 10 μ F 18 μ F				8 4 2 1 10 9 9	1000 W 500 W to	10 6 4 2 15 13 10 6	750 W	20 10 6 4 28 25 20 11	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup>	8 μ F 10 μ F 18 μ F 25 μ F				8 4 2 1 10 9 9 4 3	1000 W 500 W to	10 6 4 2 15 13 10 6	750 W	20 10 6 4 28 25 20 11 8	2800 V
With parallel compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup>	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F				8 4 2 1 10 9 9 4 3 2	1000 W 500 W to	10 6 4 2 15 13 10 6 4 2	750 W	20 10 6 4 28 25 20 11 8	2800 V
compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F	allact	uith oytarnal ic	unitor	8 4 2 1 10 9 9 4 3	1000 W 500 W to	10 6 4 2 15 13 10 6	750 W	20 10 6 4 28 25 20 11 8	2800 V
compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F				8 4 2 1 10 9 9 4 3 2	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
.ow-pressure sodium	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F		vith external ig ested, infrequ		8 4 2 1 10 9 9 4 3 2 0	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
.ow-pressure sodium	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F				8 4 2 1 10 9 9 4 3 2 0	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
.ow-pressure sodium	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F				8 4 2 1 10 9 9 4 3 2 0	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
.ow-pressure sodium	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W 135 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F				8 4 2 1 10 9 9 4 3 2 0	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
Low-pressure sodium	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W 135 W 180 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F n ferromagnetic b	Not to	ested, infrequ	ent use	8 4 2 1 10 9 9 4 3 2 0	500 W to 1400 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V
Low-pressure sodium Without compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(2)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W 135 W 180 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F n ferromagnetic b	Not to		ent use	8 4 2 1 10 9 9 4 3 2 0	1000 W  500 W to 1400 W  270 W to 360 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W 320 W to 720 W	20 10 6 4 28 25 20 11 8 5 3	1400 V to 3500 V 500 W to 1100 V
Low-pressure sodium Without compensation <sup>(2)</sup>	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(2)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W 135 W 180 W 35W 55 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F referromagnetic b	38 24	ested, infrequ	102 63	8 4 2 1 10 9 9 4 3 2 0 5 5 5 3 2 2 2	1000 W 500 W to 1400 W 270 W to 360 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W 320 W to 720 W	20 10 6 4 28 25 20 11 8 5 3	2800 V 1400 W to 3500 W to 1100 W to
With parallel compensation (2)  Low-pressure sodium Without compensation (2)  With parallel compensation (2)	125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(2)</sup> 700 W 50W 80W 125/110 W <sup>(3)</sup> 250/220 W <sup>(3)</sup> 400/ 350 W <sup>(3)</sup> 700 W 1000 W vapour lamps with 35W 55 W 90 W 135 W 180 W	8 μ F 10 μ F 18 μ F 25 μ F 40 μ F 60 μ F n ferromagnetic b	Not to	ested, infrequ	ent use	8 4 2 1 10 9 9 4 3 2 0	1000 W  500 W to 1400 W  270 W to 360 W	10 6 4 2 15 13 10 6 4 2 1	750 W to 1600 W 320 W to 720 W	20 10 6 4 28 25 20 11 8 5 3	2800 V 1400 V to 3500 V 500 W to 1100 V



# Modular contactor and Impulse relay

#### Choice of rating according to load type

Products			HIR	Impulse relays	HCI	H8 Modular	cont	actors		
Type of lamp	Unit power and capacitance of power factor correction capacitor		power factor correction   Output per circuit		J 1	circuit and maxim		um po		
High-pressure sodium Metal-iodide lamps	vapour lamps									
With ferromagnetic	35 W		Not t	ested, infrequent use	16	600 W	24	850 W	42	1450 W
ballast with external ignitor, without	70 W				8		12	to	20	to
compensation(1)	150 W				4		7	1200 W	13	2000 W
	250 W				2		4		8	
	400 W				1		3		5	
	1000 W				0		1		2	
With ferromagnetic	35 W	6 μF	34	1200 W	12	450 W	18	650 W	31	1100 W
ballast with external ignitor and parallel	70 W	12 µF	17	to	6	to	9	to	16	to
compensation <sup>(2)</sup>	150 W	20 μF	8	1350 W	4	1000 W	6	2000 W	10 4000 \	4000 W
	250 W	32 µF	5		3		4		7	
	400 W	45 µF	3		2		3		5	
	1000 W	60 µF	1		1		2		3	
	2000 W	85 µF	0		0		1		2	
With electronic ballast	35 W		38	1350 W	24	850 W	38	1350 W	68	2400 W
	70 W		29	to	18	to	29	to	51	to
	150 W		14	2200 W	9	1350 W	14	2200 W	26	4000 W

<sup>(1)</sup>Circuits with non-compensated ferromagnetic ballasts consume twice as much current for a given lamp power output. This explains the small number of lamps in

<sup>(2)</sup>The total capacitance of the power factor correction capacitors in parallel in a circuit limits the number of lamps that can be controlled by a contactor. The total downstream capacitance of a modular contactor of rating 16, 25, 40 or 63 A should not exceed 75, 100, 200 or 300 F respectively. Allow for these limits to calculate the maximum acceptable number of lamps if the capacitance values are different from those in the table.

<sup>(3)</sup>High-pressure mercury vapour lamps without ignitor, of power 125, 250 and 400 W, are gradually being replaced by high-pressure sodium vapour lamps with integral ignitor, and respective power of 110, 220 and 350 W.



## Heating application

• Impulse relay rating to be chosen according to the power to be controlled.

, , ,	5	•			
230 V heating					
Туре	Maximum power fo	r a given rating			
	HIR impulse relays				
Single-phase circuit	16 A	32 A			
Heating (AC1)	3.6 kW	7.2 kW			

Contactor rating to be chosen according to the power to be controlled and the number of operations a day

230 V heating					
Type of heating	Maximum power for a given rating				
application	HCH8 Modular contactor				
	25 A	40 A			
25	5.4 kW	8.6 kW			
50	5.4 kW	8.6 kW			
75	4.6 kW	7.4 kW			
100	4 kW	6 kW			
250	2.5 kW	3.8 kW			
500	1.7 kW	2.7 kW			
400 V heating					
25	16 kW	26 kW			
50	16 kW	26 kW			
75	14 kW	22 kW			
100	11kW	17 kW			
250	5 kW	8 kW			
500	3.5 kW	6 kW			

## Small motor application

• Contactor rating to be chosen according to the power to be controlled

Asynchronous single-phase motor with capacitor					
Small motor	Maximum power for a given rating				
application type	HCH8 Modular contactor				
Voltage	25 A	40 A			
230 V	1.4	2.5			
Asynchronous three	-phase motor				
400 V	4	7.5			
Universal motor					
230 V	0.9	1.4			

HCH8 Modular contactor loading type characteristics
• IEC61095 Standard suitable for residential with similar use . Its Different with IEC60947-4 (Its for industrial use). It is also has specials require for staff and equipments safety.

Application	Industry IEC 60947-4	Residential IEC 61095
Motor	AC3	AC7b
Heating	AC1	AC7a
Lighting	AC5a and b	AC5a and b