

# General Catalogue

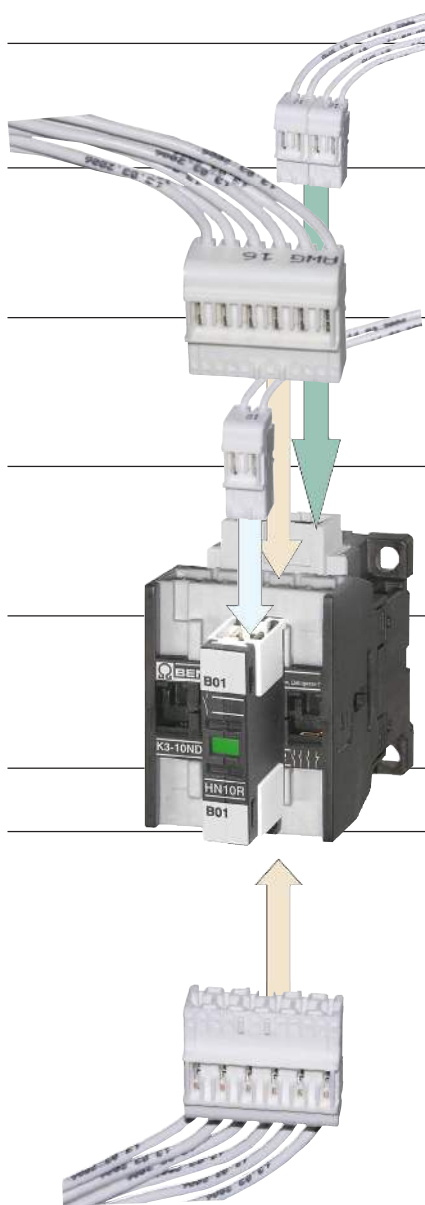


Quality made in



D946E201

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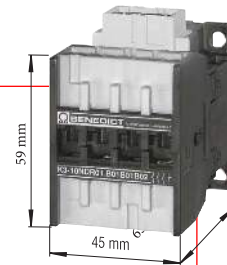


# RAST 5 - exclusiv for OEM-Partner

5 mm pitch connector system

## Advantages RAST 5 - Technology

- Time saving installation
- Easy assembly without tools
- Tailor-made sockets, custom - designed codes
- Ambient temperatures up to +90°C/194°F
- Smallest sizes
- Plug technology up to 32 A / 415 V
- color coding for power ratings
- color coding for coil voltages



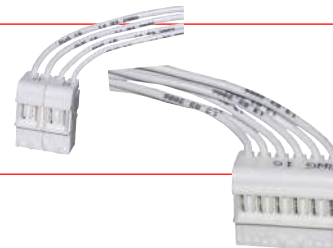
## RAST5 - Accessories



Combining switchgears with plug-in connections and screw connections



Contactors are available for plugs of many different producers




# Contactors, RAST 5





AC operated

Ratings AC2, AC3 380V 400V 220V 415V 230V 240V <b>kW</b> kW kW			Rated- Current AC1 415V A	Auxiliary Contacts built in NO NC		Auxiliary Contacts snap on HN10R..	Type	Coil Voltage	Code Housing Coil	Code Housing IN (L)	Code Housing OUT (T)	Pack pcs.	Weight kg/pc.
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● Contactor Relays


	-	-	-	10	4	-	2	<b>K3-07NDR40</b>				1	0,23
	-	-	-	10	2	2	2	<b>K3-07NDR22</b>				1	0,23

● Contactors

	<b>4</b>	3	3	25	1	-	2	<b>K3-10NDR10</b>				1	0,23
	<b>4</b>	3	3	25	-	1	2	<b>K3-10NDR01</b>				1	0,23
	<b>5,5</b>	4	4	25	1	-	2	<b>K3-14NDR10</b>				1	0,23
	<b>5,5</b>	4	4	25	-	1	2	<b>K3-14NDR01</b>				1	0,23
	<b>7,5</b>	5	5	32	1	-	2	<b>K3-18NDR10</b>				1	0,23
	<b>7,5</b>	5	5	32	-	1	2	<b>K3-18NDR01</b>				1	0,23
	<b>11</b>	6	7	32	1	-	2	<b>K3-22NDR10</b>				1	0,23
	<b>11</b>	6	7	32	-	1	2	<b>K3-22NDR01</b>				1	0,23

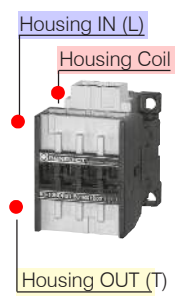
## Auxiliary

● Auxiliary Contact Blocks

for Contactors	AC15 230V A	I <sub>th</sub> A	Contacts NO NC		Type	Pack pcs.	Weight kg/pc.
	K3-..R..	3	10	1	-	<b>HN10R</b>	10 0,02
	K3-..R..	3	10	-	1	<b>HN01R</b>	10 0,02

Order Example for Contactors:

Contactor	Coil Voltage	Code Housing Coil ... see page 152, 152, 154, 156	Code Housing IN (L) ... see page 149, 151, 153, 155	Code Housing OUT (T) ... see page 149, 151, 153, 155
K3-14NDR10	230	B01	B02	B01



Technical data are subject to change without notice

Contactors, RAST 5 Combinations  
AC operated



Motor  
AC2, AC3  
380V AC3  
400V 400V  
415V 415V  
kW A  
for  
Overload Relays  
U12/16E.. and U3/32...

Type

Coil Voltage	Code Housing Coil	Code Housing IN (L)	Screw Connection OUT (T)
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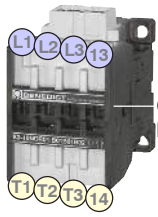
Pack Weight  
pcs. kg/pcs.

● Contactors for Overload Relays

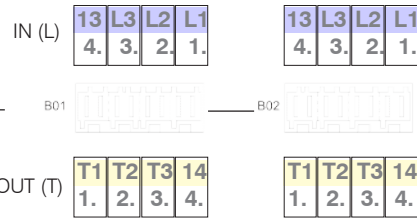
	4	10	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-10NDR10</b>	...	...	<b>.PZ</b>	1	0,23
	4	10	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-10NDR01</b>	...	...	<b>.PZ</b>	1	0,23
	5,5	14	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-14NDR10</b>	...	...	<b>.PZ</b>	1	0,23
	5,5	14	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-14NDR01</b>	...	...	<b>.PZ</b>	1	0,23
	7,5	18	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-18NDR10</b>	...	...	<b>.PZ</b>	1	0,23
	7,5	18	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-18NDR01</b>	...	...	<b>.PZ</b>	1	0,23
	11	22	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-22NDR10</b>	...	...	<b>.PZ</b>	1	0,23
	11	22	U12/16E 0,18-..23 K3 and U3/32 0,18-..32	<b>K3-22NDR01</b>	...	...	<b>.PZ</b>	1	0,23

Pozidriv ... **PZ**  
Torx ... **TX**

Selection of Contactor-Housings for Standard plugs acc. **Industry Standard RAST 5**



Contactor Housings



**Code Contactor-Housings** — **B01** — **B02** — **B03** — **B04** further housings on request →

Standard plugs acc. Industry Standard RAST 5



Order Example for Contactors:

- Contactor
  - Coil Voltage
  - Code Housing Coil ...see page 150, 152, 154, 156
  - Code Housing IN (L) ... see page 149, 151, 153, 155
  - Code Housing OUT (T) ...see page 149, 151, 153, 155
- K3-14NR10\_230\_B01 B02 B01

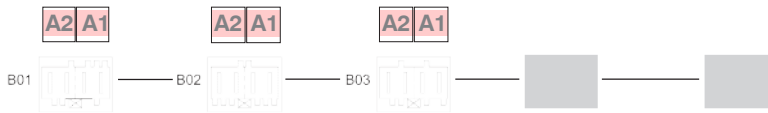
8-pole			
6-pole left			
6-pole right			
4-pole left		-0A-	
4-pole right		-0B-	
2-pole left		-0A-	
		-0C-	
		-0I-	
		-0L-	
		-0O-	
		-0Q-	
2-pole center left		-0A-	
		-0C-	
		-0K-	
		-0O-	
		-0Q-	
2-pole center right		-0K-	
		-0B-	
		-0F-	
		-0L-	
2-pole right		-0B-	
		-0F-	
		-0I-	
		-0L-	

- Contactor, Motor-Starters
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnectors
- Push Buttons
- Representatives, Suppliers

Selection of Coil-Housings for Standard plugs acc. **Industry Standard RAST 5**



Coil-Housings



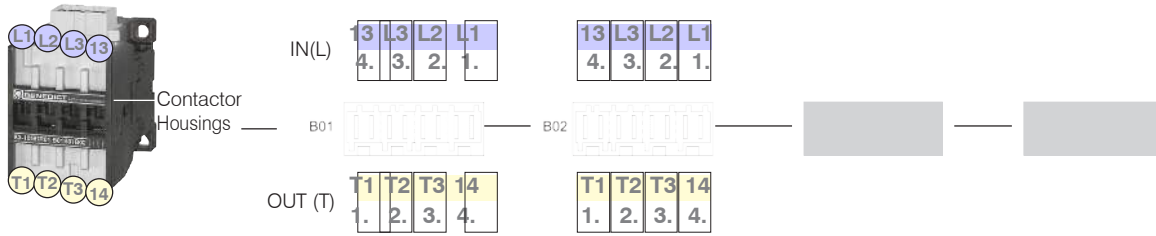
**Code Coil-Housings** ——— **B01** ——— **B02** ——— **B03** ——— **B04** ——— **B05** ——— further housings on request →

**Standard plugs acc. Industry Standard RAST 5**



Code	Coil-Housings	B01	B02	B03	B04	B05
4-pole						
3-pole left		-0B-	-0K-			
3-pole right		-0C-	-0A-			
				-0H-		
			-0I-			
2-pole center			-0A-		-0B-	
			-0C-		-0E-	
		-0I-			-0L-	
		-0L-			-0M-	
			-0O-		-0P-	
			-0Q-			

Selection of Contactor-Housings for Standard plugs acc. **System Stocko RAST 5**



**Code Contactor-Housings** — B01 — B02 — B03 — B04 further housings on request ▶

**Standard plugs acc. System Stocko RAST 5**



Pole Configuration	Code Contactor-Housings	
	B01	B02
8-pole		-31-
6-pole left		-34-
		-35-
		-38-
		-50-
		-65-
6-pole right		-34-
		-35-
		-38-
		-50-
		-65-
4-pole left		-14-
		-16-
		-53-
		-60-
		-73-
4-pole right		-75-
		-10-
		-60-
2-pole	see... Industry Standard RAST 5	

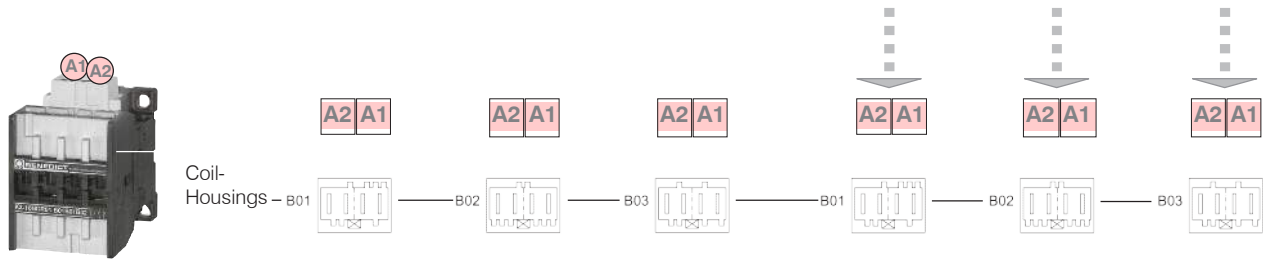
Order Example for Contactors:

- Contactor
  - Coil Voltage
  - Code Housing Coil ...see page 150, 152, 154, 156
  - Code Housing IN (L) ... see page 149, 151, 153, 155
  - Code Housing OUT (T) ...see page 149, 151, 153, 155
- K3-14NR10\_230\_B01 B02 B01

- Contactor, Motor-Starters
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnectors
- Push Buttons
- Representatives, Suppliers



# Selection of Coil-Housings for Standard plugs acc. System Stocko RAST 5



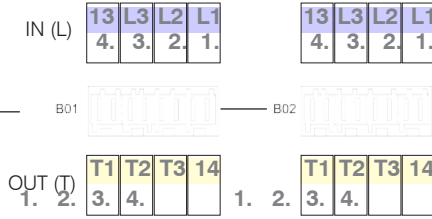
Code Coil-Housings	B01	B02	B03	B01	B02	B03
4-pole	-42-					
		-64-				
	-78-	-78-	-78-			
	-79-		-79-			
3-pole left			-01-			
			-05-			
			-12-			
		-16-				
			-30-			
			-32-			
			-35-			
			-44-			
			-48-			
3-pole right				-19-		
				-21-		
				-47-		
2-pole center						

see... Industry Standard RAST 5

Selection of Contactor-Housings for Standard plugs acc. **System Tyco RAST 5**



Contactor Housings



**Code Contactor-Housings** — **B01** — **B02** — **B03** — **B04** further housings on request ▶

**Standard plugs acc. System Tyco RAST 5**



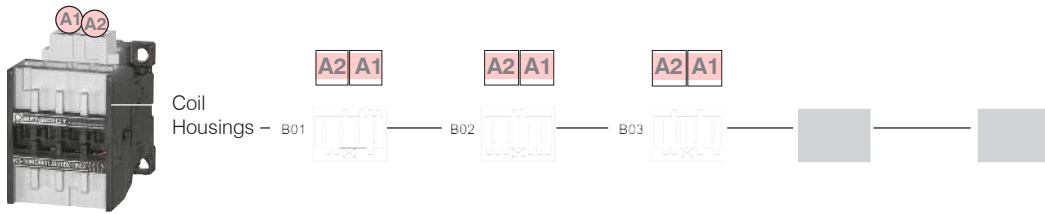
	B01	B02	B03	B04
8-pole				
6-pole left		928151-6		
		2-928344-6		
6-pole right				
4-pole left		928344-4		
			4-928344-4	
4-pole right				
2-pole left				928344-2
				3-964951-2
		2-964951-2		
		928343-2		
				964951-2
				4-928344-2
2-pole center left		928344-2		
		3-964951-2		
		4-928344-2		
2-pole center right				2-928344-2
				928343-2
2-pole right				2-928344-2
				2-964951-2
		928343-2		928343-2

Order Example for Contactors:

- Contactor K3-14NR10
- Coil Voltage 230
- Code Housing Coil ...see page 150, 152, 154, 156 B01
- Code Housing IN (L) ... see page 149, 151, 153, 155 B02
- Code Housing OUT (T) ...see page 149, 151, 153, 155 B01

- Contactors, Motor-Starters
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnectors
- Push Buttons
- Representatives, Suppliers

Selection of Coil-Housings for Standard plugs acc. **System Tyco RAST 5**

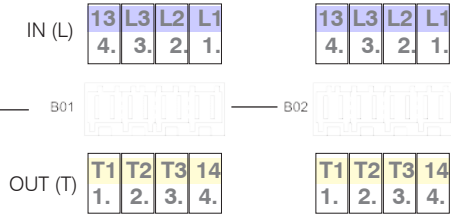


Code	Coil-Housings	B01	B02	B03	B04	B05	further housings on request
Standard plugs acc. System Lumberg RAST 5	4-pole						
	3-pole left						
	3-pole right			928344-3			
	2-pole center			928344-2			
					2-928344-2		
			3-964951-2				
					6-928344-2		
			2-964951-2				
			928343-2				
				964951-2			
				4-928344-2			
					928343-2		

Selection of Contactor-Housings for Standard plugs acc. **System Lumberg RAST 5**



Contactor  
Housings -



**Code Contactor-Housings**      **B01**      **B02**      **B03**      **B04** further housings on request ▶

**Standard plugs  
acc.  
System Lumberg RAST 5**



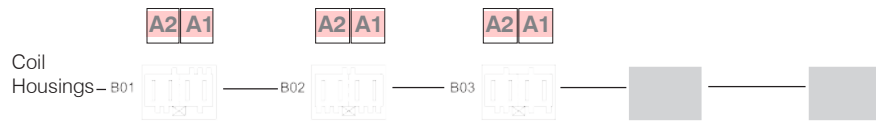
8-pole				
6-pole left				-10-
6-pole right				
4-pole left		-01-		
4-pole right		-02-		-02-
2-pole left				-01- -03-
		-09-		
2-pole center left		-01- -03-		
				-10- -02- -06-
2-pole center right				
		-10- -02- -06-		
2-pole right				-09-

Order Example for  
Contactors:

- Contactor      K3-14NR10, 230
- Coil Voltage      B01
- Code Housing Coil ...see page 150, 152, 154, 156      B02
- Code Housing IN (L) ... see page 149, 151, 153, 155      B01
- Code Housing OUT (T) ...see page 149, 151, 153, 155

- Contactor, Motor-Starters
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnectors
- Push Buttons
- Representatives, Suppliers

Selection of Coil-Housings for Standard plugs acc. **System Lumberg RAST 5**



Code	Coil-Housings	B01	B02	B03	B04	B05	further housings on request
	4-pole						
	3-pole left						
	3-pole right		-01-				
	2-pole center		-01-				
			-03-				
				-02-			
					-05-		
		-09-					

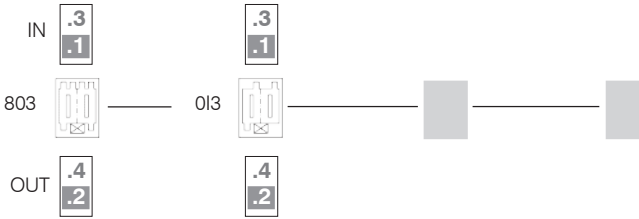
Standard plugs acc. System Lumberg RAST 5



Selection of Auxiliary Contact Block-Housings for Standard plugs acc. **Industry Standard RAST 5**



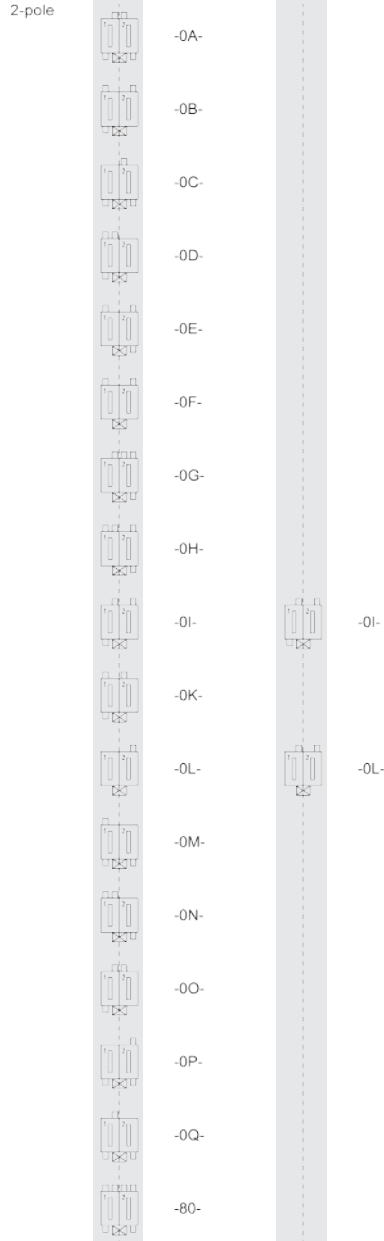
Auxiliary Contact Block-Housings



**Code Auxiliary-Contact Block-Housings**



Standard plugs acc. Industry Standard RAST 5

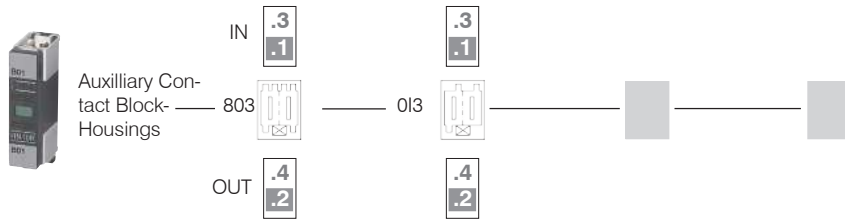


Order Example for Aux. Contact Blocks:

- Auxiliary Contact Block
  - Code Aux. Block Housing IN (1,3)
  - Code Aux. Block Housing OUT (2,4)
- HN10R-803013

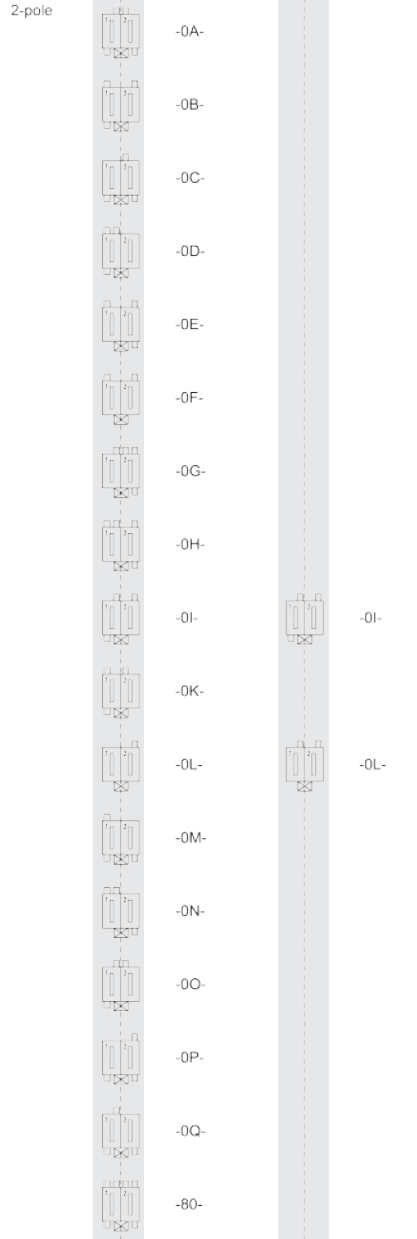
- Contactor, Motor-Starters
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnector
- Push Buttons
- Representatives, Suppliers

Selection of Auxiliary Contact Block-Housings for Standard plugs acc. **System Stocko RAST 5**



**Code Auxiliary-Contact Block-Housings** 803 0I3 further housings on request →

Standard plugs acc. System Stocko RAST 5

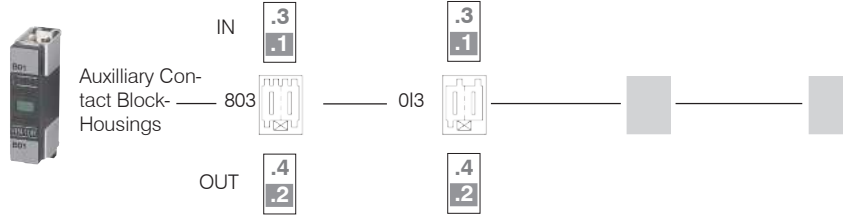


Order Example for Aux. Contact Blocks:

- Auxiliary Contact Block
- Code Aux. Block Housing IN (1,3)
- Code Aux. Block Housing OUT (2,4)

HN10R 8030I3

Selection of Auxiliary Contact Block-Housings for Standard plugs acc. **System Tyco RAST 5**



**Code Auxilliary-Contact Block-Housings** — **803** — **013** — further housings on request →

**Standard plugs acc. System Tyco RAST 5**



2-pole	803	013
	928344-2	
	2-928344-2	
	3-964951-2	
	6-928344-2	
	5-928344-2	
	3-928344-2	
	2-964951-2	2-964951-2
	928343-2	928343-2
	964951-2	
	4-928344-2	

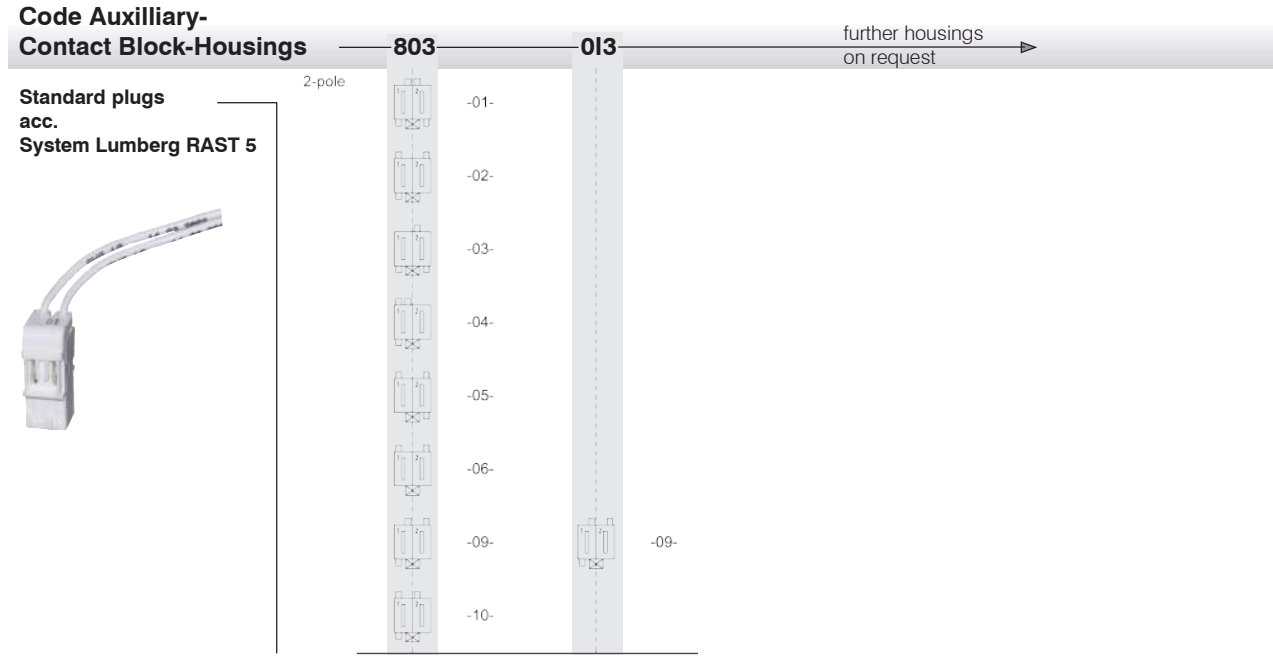
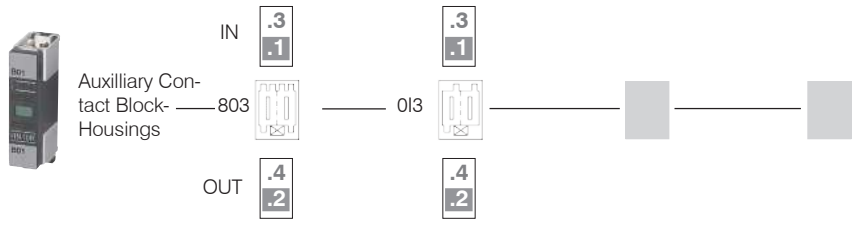
Order Example for Aux. Contact Blocks:

— Auxiliary Contact Block  
 — Code Aux. Block Housing IN (1,3)  
 — Code Aux. Block Housing OUT (2,4)  
 HN10R-803013

- Contactor, Motor-Starter
- Circuit Breakers
- Manual Motor-Starters
- Switches
- AC-Main Switches
- DC-Switch Disconnecter
- Push Buttons
- Representatives, Suppliers



Selection of Auxiliary Contact Block-Housings for Standard plugs acc. **System Lumberg RAST 5**



Standard plugs  
acc.  
System Lumberg RAST 5



Order Example for  
Aux. Contact Blocks:

- Auxiliary Contact Block
- Code Aux. Block Housing IN (1,3)
- Code Aux. Block Housing OUT (2,4)

HN10R 803013

Main Contacts		Type	K3-07NDR	K3-10NDR	K3-14NDR	K3-18NDR	K3-22NDR
<b>Rated insulation voltage <math>U_i</math></b> <sup>1)</sup>		V~	415	415	415	415	415
<b>Making capacity <math>I_{eff}</math></b>	at $U_e = 415V\sim$	A	-	200	200	200	200
<b>Breaking capacity <math>I_{eff}</math></b>	at $U_e = 415V\sim$ $\cos\varphi = 0,65$	A	-	180	180	200	200
<b>Utilization category AC1</b>							
<b>Switching of resistive load</b>							
Rated operational current $I_e (=I_{th})$	415V	<b>A</b>	<b>10</b>	<b>25</b>	<b>25</b>	<b>32</b>	<b>32</b>
Rated operational power	220V	kW	-	9,5	9,5	12,2	12,2
of three-phase resistive loads	230V	kW	-	9,9	9,9	12,7	12,7
50-60Hz, $\cos\varphi = 1$	240V	kW	-	10,4	10,4	13,3	13,3
	380V	kW	-	16,4	16,4	21,0	21,0
	400V	kW	-	17,3	17,3	22,1	22,1
	415V	kW	-	17,9	17,9	23,0	23,0
Rated operational current $I_e (=I_{th})$	415V	A	6	25	25	32	32
at 60°C, enclosed							
Rated operational power	220V	kW	-	9,5	9,5	12,2	12,2
of three-phase resistive loads	230V	kW	-	9,9	9,9	12,7	12,7
50-60Hz, $\cos\varphi = 1$	240V	kW	-	10,4	10,4	13,3	13,3
	380V	kW	-	16,4	16,4	21,0	21,0
	400V	kW	-	17,3	17,3	22,1	22,1
	415V	kW	-	17,9	17,9	23,0	23,0
Minimum cross-section of conductor		mm <sup>2</sup>	2 x 1,5 <sup>2</sup>	2 x 1,5 <sup>2</sup>	2 x 1,5 <sup>2</sup>	2 x 2,5 <sup>2</sup>	2 x 2,5 <sup>2</sup>
at load with $I_e (=I_{th})$							
<b>Utilization category AC2 and AC3</b>							
<b>Switching of three-phase motors</b>							
Rated operational current $I_e$	220V	A	-	12	15	18	22
open and enclosed	230V	A	-	11,5	14,5	18	22
	240V	A	-	11	14	18	22
	<b>380-400V</b>	<b>A</b>	<b>-</b>	<b>10</b>	<b>14</b>	<b>18</b>	<b>22</b>
	415V	A	-	9	14	18	22
Rated operational power	220-230V	kW	-	3	4	5	6
of three-phase motors	240V	kW	-	3	4	5	7
50-60Hz	<b>380-400V</b>	<b>kW</b>	<b>-</b>	<b>4</b>	<b>5,5</b>	<b>7,5</b>	<b>11</b>
	415V	kW	-	4,5	6	8,5	12
<b>Auxilliary Contacts</b>							
<b>Rated insulation voltage <math>U_i</math></b>		V~	415	415	415	415	415
<b>Thermal rated current <math>I_{th}</math></b> up to 415V							
Ambient temperature	40°C	A	10	10	10	10	10
	60°C	A	6	6	6	6	6
<b>Utilization category AC15</b>							
Rated operational current $I_e$	220-240V	A	3	3	3	3	3
	380-415V	A	2	2	2	2	2
<b>Utilization category DC13</b>							
Rated operational current $I_e$	60V	A	3,5	3,5	3,5	3,5	3,5
	110V	A	0,5	0,5	0,5	0,5	0,5
	220V	A	0,1	0,1	0,1	0,1	0,1
<b>Short circuit protection</b>	gL (gG)	A	20	20	20	20	20

1) Suitable for: earthed -neutral systems, overvoltage category I to III, pollution degree 3 (Industry-Standard):  $U_{imp} = 4kV$ .  
Data for other conditions on request.

Data acc. to IEC 60947-4-1, VDE 0660

Main Contacts Type **K3-07NDR** **K3-10NDR** **K3-14NDR** **K3-18NDR** **K3-22NDR**

**Maximum ambient temperature**

Operation	open	°C	-40 up to +60 (+90) <sup>1)</sup>				
	enclosed	°C	-40 up to +40				
with thermal overload relay	open	°C	-25 up to +60				
	enclosed	°C	-25 up to +40				
Storage		°C	-50 up to +90				

**Short circuit protection**

for contactors without thermal overload relay

Coordination-Type „1“ acc. to IEC 947-4-1,  
Contact welding without  
hazard of persons

max. fuse size	gL (gG)	A	20	63	63	63	63
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Coordination-Type „2“ acc. to IEC 947-4-1,  
light Contact welding accepted

max. fuse size	gL (gG)	A		25	35	35	35
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Contact welding not accepted

max. fuse size	gL (gG)	A		16	16	16	16
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for Contactors with thermal overload relay the  
device with the smaller admissible backup fuse (contactor or  
thermal overload relay) determines the fuse size.

**Frequency of operations z**

Contactors without thermal overload relay							
	without load	1/h	10000	10000	10000	10000	10000
	AC3, I <sub>b</sub>	1/h		600	600	600	600
	AC4, I <sub>b</sub>	1/h		120	120	120	120
	DC3, I <sub>b</sub>	1/h		600	600	600	600

**Mechanical life**

AC-operated	S x 10 <sup>6</sup>	10	10	10	10	10
DC-operated	S x 10 <sup>6</sup>	10	10	10	10	10

<b>Short time current</b>	10sec.-current	A		96	120	144	176
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<b>Power loss</b> per pole	at I <sub>b</sub> /AC3 400V	W		0,21	0,35	0,5	0,75
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**Resistance to shock acc. to IEC 68-2-27**

Shock time 20ms sine-wave	NO	g			10	
	NC	g			6	

**Control Circuit**

**Power consumption of coils**

AC operated	inrush	VA	33-45					
		sealed	VA	7-10				
		W	2,6-3					
DC operated	inrush	W	75					
		sealed	W	2				

**Operating range of coils**

in multiples of control voltage U <sub>s</sub>							
	AC operated		0,85-1,1				
	DC operated		0,8-1,1				

**Switching time** at control voltage U<sub>s</sub> ± 10%<sup>2)3)</sup>

AC operated	make time	ms	8-16				
	release time	ms	5-13				
	arc duration	ms	10-15				
DC operated	make time	ms	8-12				
	release time	ms	8-13				
	arc duration	ms	10-15				

1) With reduced control voltage range 0,9 bis 1,0 x U<sub>s</sub> and with reduced rated current I<sub>b</sub>/AC1 acc. to I<sub>b</sub>/AC3

2) Total breaking time = release time + arc duration

3) Values for delay of the release time of the make contact and the make time of the break contact will be increased, if magnet coils are protected with coil suppressor (Varistor, RC-Unit, Diode-Unit).

Data acc. to UL508

Main Contacts (cULus)		Type	K3-10NDR	K3-14NDR	K3-18NDR	K3-22NDR
Bemessungsbetriebsstrom „General Use“		A	25	25	30	30
<b>Motor DOL 3-phase at 60Hz</b>						
Rated operational current	415V	A	10	14	18	22
Rated operational power	110-120V	hp	1½	2	2	3
	200-208V	hp	3	3	5	5
	220-240V	hp	3	3	5	5
	265-277V	hp	3	5	7½	7½
	380-415V	hp	5	5	10	10
<b>Motor DOL 1-phase at 60Hz</b>						
Rated operational current	415V	A	10	14	18	22
Rated operational power of AC motor at 60Hz (1ph)	110-120V	hp	½	¾	1	1½
	200-208V	hp	1	1½	2	3
	220-240V	hp	1½	2	3	3
	265-277V	hp	2	3	3	3
	380-415V	hp	3	3	5	5
Fuses		A	30	40	50	50
Suitable for use on a capability of delivering not more than (SCCR)	rms	A	5000	5000	5000	5000
		V	415	415	415	415
Auxilliary Contacts (cULus)			A300	A300	A300	A300

## Accessories

Data acc. to IEC 60947-5-1, VDE 0660

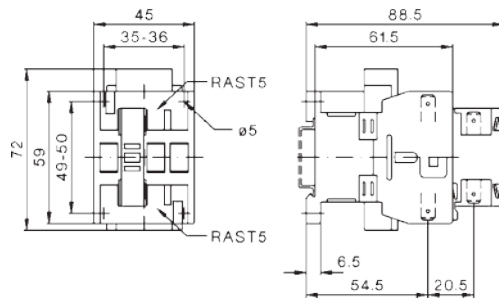
Auxilliary Contacts		Type	HN10R	HN01R
<b>Rated insulation voltage <math>U_i</math></b>		V~	415	415
<b>Thermal rated current <math>I_{th}</math> up to 415V</b>				
Ambient temperature	max. 40°C	A	10	10
	max. 60°C	A	6	6
<b>Frequency of operations z</b>		1/h	3000	3000
<b>Mechanical life</b>		S x 10 <sup>6</sup>	10	10
<b>Power loss</b> per pole at $I_g/AC1$		W	0,5	0,5
<b>Utilization category AC15</b>				
Rated operational betriebsstrom $I_g$	220-240V	A	3	3
	380-415V	A	2	2
<b>Utilization category DC13</b>				
Bemessungs-current $I_g$	60V	A	2	2
	110V	A	0,4	0,4
	220V	A	0,1	0,1
<b>Short circuit protection</b>				
short circuit current 1kA, contact welding not accepted				
max. fuse size	gL (gG)	A	20	20

Data acc. to UL508

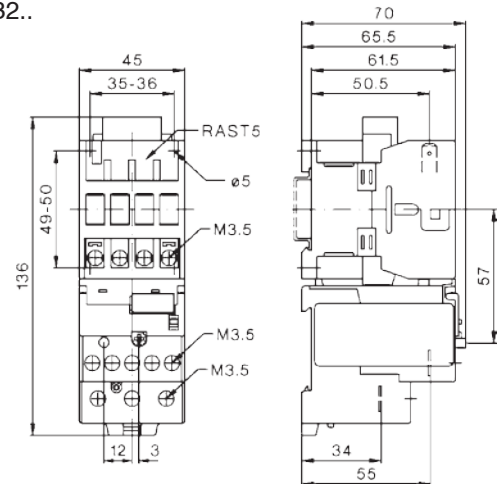
Rated operational current „General Use“		A	10	10
Rated operational voltage	max.	V~	300	300
<b>Auxiliary Contacts</b>			A300	A300

## Dimensions

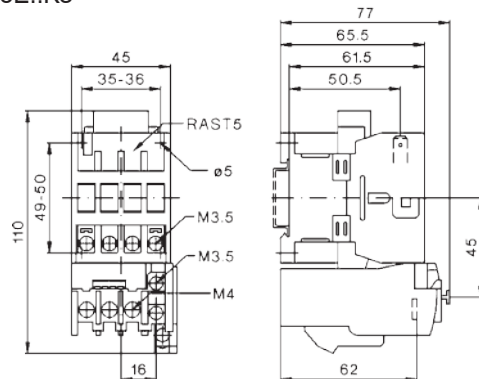
### K3--NDR.. +HN..R



### K3--NDR.....PZ + U3/32..



### K3--NDR.....PZ + U12/16E..K3



Technical data are subject to change without notice