

# Installation contactors



EN/ESB20	EN/ESB24	EN/ESB40	EN/ESB63
<b>Switching heaters and resistors, AC-1 / AC-7a</b>			
Rated operational current I <sub>g</sub> (NO)			
20 A	24 A	40 A	63 A
Rated operational current I <sub>g</sub> (NC)			
20 A	24 A	30 A	30 A
Rated operational power, 1-phase at 230 V			
4 kW	5.3 kW	8.8 kW	13.8 kW
Rated operational power, 3-phase at 400 V			
	16 kW	26 kW	41 kW
<b>Switching motors, AC-3 / AC-7b</b>			
Rated operational current I <sub>g</sub> (NO)			
9 A	9 A	22 A	30 A
Rated operational current I <sub>g</sub> (NC)			
9 A	6 A		
Rated operational power, 1-phase at 230 V			
1.3 kW	2.2 kW	5.5 kW	8 kW
Rated operational power, 3-phase at 400 V			
	4 kW	11 kW	15 kW
<b>Module width</b>			
18 mm	36 mm	54 mm	54 mm

## EN-Types - with benefits for service

EN-Types have an integrated 3-position switch for manual and automatic operation.

Contacts	Type	Order No.
<b>20 A 2-pole ( No aux.-contact block possible )</b>		
2NO	EN 20-20 24 V 50 Hz	GHE3221101R0001
2NO	EN 20-20 230 V 50 Hz	GHE3221101R0006
<b>24 A 3-pole ( 1 aux.-contact block possible )</b>		
3NO	EN 24-30 230-240 V AC/DC	GHE3261501R0006
<b>24 A 4-pole ( 1 aux.-contact block possible )</b>		
4NO	EN 24-40 24 V AC/DC	GHE3261101R0001
4NO	EN 24-40 230-240 V AC/DC	GHE3261101R0006
<b>40 A 3-pole ( 1 aux.-contact block possible )</b>		
3NO	EN 40-30 230 V AC/DC	GHE3421501R0006
<b>40 A 4-pole ( 1 aux.-contact block possible )</b>		
4NO	EN 40-40 24 V AC/DC	GHE3421101R0001
4NO	EN 40-40 230 V AC/DC	GHE3421101R0006
<b>Accessories</b>		
2NO	EH 04-20, Aux.-contact block	GHE3401321R0001
1NO, 1NC	EH 04-11, Aux.-contact block	GHE3401321R0002
distance pcs	ESB-DIS Spacer	GHE3201902R0001
Seal	ESBPLK24	GHE3201903 0001

Contacts	Type	Order No.
<b>20 A 2-pole (No aux.-contact block possible)</b>		
2NO	ESB 20-20 24 V 50/60 Hz	GHE3211102R0001
2NO	ESB 20-20 230 V 50/60 Hz	GHE3211102R0006
2NC	ESB 20-02 24 V 50/60 Hz	GHE3211202R0001
2NC	ESB 20-02 230 V 50/60 Hz	GHE3211202R0006
1NO, 1NC	ESB 20-11 24 V 50/60 Hz	GHE3211302R0001
1NO, 1NC	ESB 20-11 230 V 50/60 Hz	GHE3211302R0006
<b>24 A 2-pole (1 aux.-contact block possible)</b>		
2NO	ESB 24-20 24 V AC/DC	GHE3291402R0006
2NO	ESB 24-20 24 V AC/DC	GHE3291402R0001
<b>24 A 4-pole (1 aux.-contact block possible)</b>		
4NO	ESB 24-40 24 V AC/DC	GHE3291102R0001
4NO	ESB 24-40 230-240 V AC/DC	GHE3291102R0006
2NO, 2NC	ESB 24-22 24 V AC/DC	GHE3291302R0001
2NO, 2NC	ESB 24-22 230-240 V AC/DC	GHE3291302R0006
<b>40 A 2-/3-/4-pole (1 aux.-contact block possible)</b>		
2NO	ESB 40-20 24 V AC/DC	GHE3491402R0001
2NO	ESB 40-20 230 V AC/DC	GHE3491402R0006
3NO	ESB 40-30 24 V AC/DC	GHE3491502R0001
3NO	ESB 40-30 230 V AC/DC	GHE3491502R0006
4NO	ESB 40-40 24 V AC/DC	GHE3491102R0001
4NO	ESB 40-40 230 V AC/DC	GHE3491102R0006
2NO, 2NC	ESB 40-22 24 V AC/DC	GHE3491302R0001
2NO, 2NC	ESB 40-22 230 V AC/DC	GHE3491302R0006
<b>63 A 2-/3-/4-pole (1 aux.-contact block possible)</b>		
2NO	ESB 63-20 24 V AC/DC	GHE3691402R0001
2NO	ESB 63-20 230 V AC/DC	GHE3691402R0006
3NO	ESB 63-30 230 V AC/DC	GHE3691502R0006
4NO	ESB 63-40 24 V AC/DC	GHE3691102R0001
4NO	ESB 63-40 230 V AC/DC	GHE3691102R0006

## Functions:

- Switch in position “AUTO” : standard control
- Switch in position “O” : Supply to coil interrupted
- Switch in position “I” : Manually switched on (a trigger signal at the coil terminal initiates the switch moving into “AUTO” position)

# Mini contactors

## Mini contactors with screw connection: 3 pole - AC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts	Type Code Reference	Order Code	
	Amps	hP	kW				
16A	9	5.5	4	1NO	-	B06-30-10 **	GJ 1211001R□10□
16A	9	5.5	4	-	1NC	B06-30-01 **	GJL1211001R□01□
20A	12	7.5	5.5	1NO	-	B07-30-10 **	GJL1311001R□10□
20A	12	7.5	5.5	-	1NC	B07-30-01 **	GJL1311001R□01□

Complete the contactor type code by replacing \*\* with desired coil voltage

## Mini contactors with screw connection: 3 pole - DC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts	Type Code Reference	Order Code	
	Amps	hP	kW				
16A	9	5.5	4	1NO	-	BC6-30-10 **	GJL1213001R□10□
16A	9	5.5	4	-	1NC	BC6-30-01 **	GJL1213001R□01□
20A	12	7.5	5.5	1NO	-	BC7-30-10 **	GJL1313001R□10□
20A	12	7.5	5.5	-	1NC	BC7-30-01 **	GJL1313001R□01□

## Mini reversing contactors with screw connection: 3 pole - AC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts	Type Code Reference	Order Code	
	Amps	hP	kW				
16A	9	5.5	4	1NO	-	VB06-30-10 **	GJ 1211901R□10□
16A	9	5.5	4	-	1NC	VB06-30-01 **	GJL1211901R□01□
20A	12	7.5	5.5	1NO	-	VB07-30-10 **	GJL1311901R□10□
20A	12	7.5	5.5	-	1NC	VB07-30-01 **	GJL1311901R□01□

Complete the contactor type code by replacing \*\* with desired coil voltage

## Mini reversing contactors with screw connection: 3 pole - DC operated

AC1 duty Amps	AC3 rating at 415V			Auxiliary Contacts	Type Code Reference	Order Code	
	Amps	hP	kW				
16A	9	5.5	4	1NO	-	VBC6-30-10 **	GJL1213901R□10□
16A	9	5.5	4	-	1NC	VBC6-30-01 **	GJL1213901R□01□
20A	12	7.5	5.5	1NO	-	VBC7-30-10 **	GJL1313901R□10□
20A	12	7.5	5.5	-	1NC	VBC7-30-01 **	GJL1313901R□01□

Complete the contactor type code by replacing \*\* with desired coil voltage

Mini contactors are also available in 4 pole (4NO / 2NO + 2NC)

## Mini auxiliary contactor 4 pole with screw connection

Control Circuit	Contact Configuration		Type Code Reference	Order Code	M.R.P.(₹)
	NO	NC			
AC	2NO	2NC	K6-22Z**	GJH 121 1001 R□22□	
	3NO	1NC	K6-31Z **	GJH 121 1001 R□31□	
	4NO	-	K6-40E **	GJH 121 1001 R□40□	
DC	2NO	2NC	KC6-22Z**	GJH 121 3001 R□22□	
	3NO	1NC	KC6-31Z **	GJH 121 3001 R□31□	
	4NO	-	KC6-40E **	GJH 121 3001 R□40□	

## Coil voltage for mini contactors

AC		DC	
50-60Hz	Code	DC V	Code
24	0 ... 1	24	0 ... 1
48	0 ... 3	110 ... 125	0 ... 4
110 ... 127	8 ... 4	220 ... 240	0 ... 5
220 ... 240	8 ... 0		
380 ... 415	8 ... 5		

Complete the contactor type code by replacing \*\* with desired coil voltage

## Auxiliary contact blocks for mini contactors, 4 A, 240 V AC-15 / 2.5 A, 24V DC-13

### Ordering details

For contactor types	Auxiliary contacts	Type	Order Code
<b>Front mounted instantaneous auxiliary contact blocks 1)</b>			
B6-, B7-30-10, BC6-, BC7-30-10	1NO + 1NC	CAF6-11M	GJL1201330R0003
VB6, VB7, VBC6, VBC7, VB6A, VB7A	2NO	CAF6-20M	GJL1201330R0007
VBC6A, VBC7A	2NC	CAF6-02M	GJL1201330R0011
<b>Side mounted instantaneous auxiliary contact block 1)</b>			
B6-, B7-30-10, BC6-, BC7-30-10	1NO + 1NC	CA6-11M	GJL1201317R0003



# Spares for contactors

## Spare coils for A range

For contactor types	Type Code Reference	Order Code
N, A9...A16, UA16..RA	ZA16 **	1SBN151410R□□06 ■
A26..A40;UA26..UA30 RA	ZA40 **	1SBN152410R□□06 ■
A45..A75;UA50..UA75 RA	ZA75 **	1SBN153510R□□06 ■
A95..A110; UA95..UA110 RA	ZA110 **	1SFN154310R□□06 ■
A145...A185	ZA185 **	1SFN154710R□□06 ■
A210...A300	ZA300 **	1SFN155110R□□06 ■

## Spare coils for AF range

For contactor types	Type Code Reference	Order Code
AF45...AF75	ZAF75	1SBN153570R□□06 ■
AF95...AF110	ZAF110	1SFN153370R□□06 ■
AF145...AF185	ZAF185	1SFN154770R□□06 ■
AF210,AF260 &AF300	ZAF300	1SFN155170R□□06
AF400...AF460	ZAF460**	1SFN155770R□□06
AF580...AF750**	ZAF750**	1SFN156170R□□06

## Coil voltages & codes

N range, A09.....A300, UA....RA		
Voltage V-50 Hz	Voltage V-60 Hz	Code
24	24	81
110	110....120	84
220....230	230....240	80
230....240	240....260	88
400....415	415....440	86

AF45...AF750		
Voltage V-50/60 Hz	Voltage V..dc	Code
	24....60	68
48....130	48....130	69
100....250	100....250	70
250....500	250....500	71

## Spare contact sets for 3 pole

Description	For contactor types	Type Code Reference	Order Code
Contact set for 3 -pole contactors consisting of 6 fixed contacts, 3 moving contacts, springs and the required screws	A/AF/AE/TAE50	ZL 50	1SBN163503R1000 ■
	A/AF/AE/TAE63	ZL 63	1SBN163703R1000 ■
	A/AF/AE/TAE75	ZL 75	1SBN164103R1000 ■
	A/AF/AE/TAE95	ZL 95	1SFN164303R1000 ■
	A/AF/AE/TAE110	ZL 110	1SFN164503R1000 ■
	A/AF145	ZL 145	1SFN164703R1000 ■
	A/AF185	ZL 185	1SFN164903R1000 ■
	A/AF210	ZL 210	1SFN165103R1000 ■
	A/AF260	ZL 260	1SFN165303R1000 ■
	A/AF300	ZL 300	1SFN165503R1000 ■
	AF400	ZL 400	1SFN165703R1000
	AF460	ZL 460	1SFN165903R1000
	AF 580	ZL 580	1SFN166103R1000
	AF 750	ZL 750	1SFN166303R1000
	UA 50	ZLU 50	1SBN163502R1000 ■
	UA 63	ZLU 63	1SBN163702R1000 ■
	UA 75	ZLU 75	1SBN164102R1000 ■

■ Stock items