

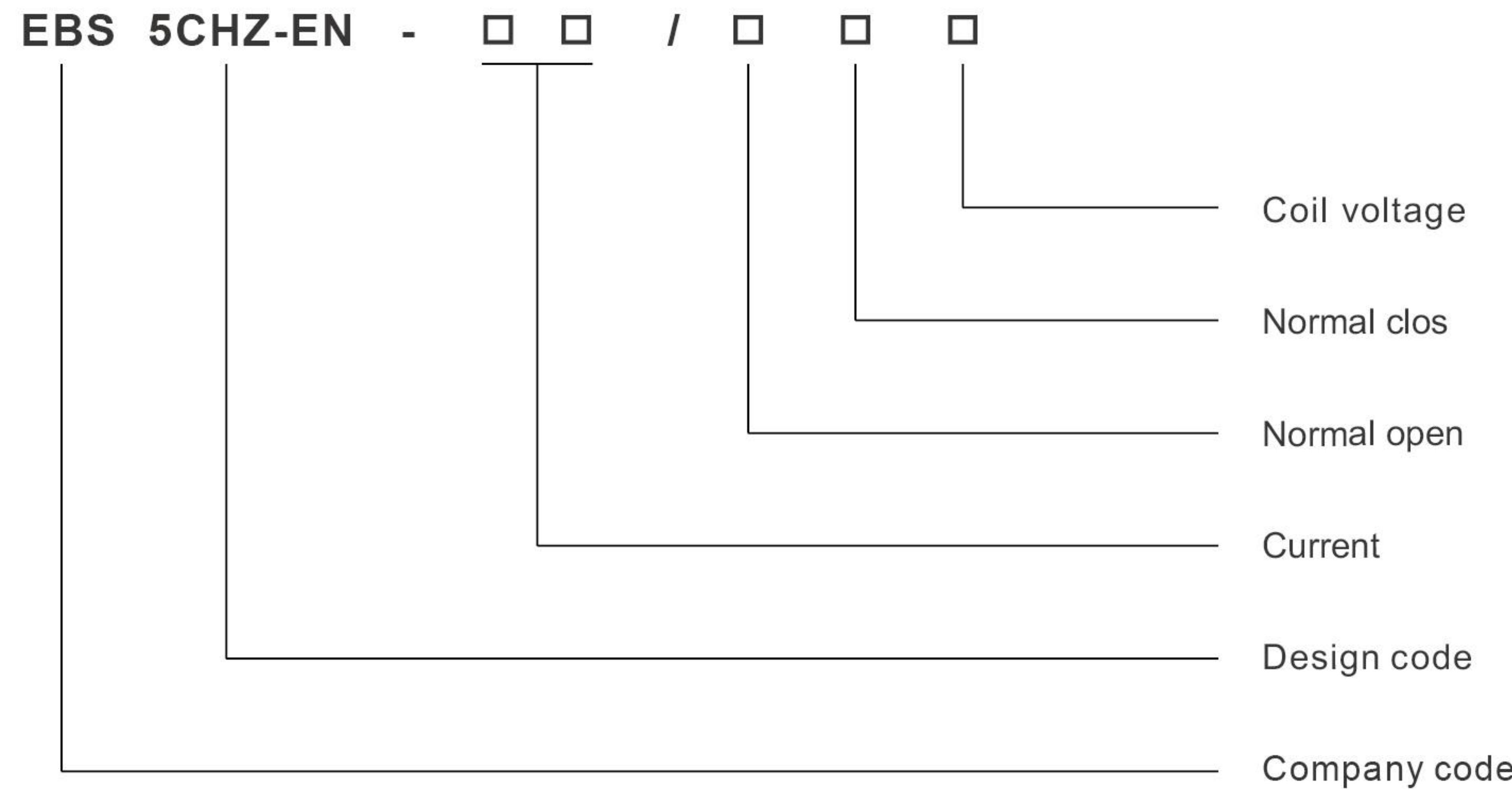
1.General

The EBASEE modular contactor (hereinafter referred to as contactor) is mainly suitable for AC 50Hz (or 60Hz), rated working voltage to 400V and rated current operation in the circuit up to 63A, it can control the low-inductance and low-inductance load of household appliances and similar purposes; it can also be used to control the load of household motors. The power should be reduced accordingly.

The EBS5CHZ-EN contactors according to standard IEC/EN61095 , IEC60947-4-1 and are used mainly in buildings for switching and controlling lighting, heating, ventilation and pumps. They are part of the complete range of Din rail products and can be integrated easily in dedicated panels.



2.Nomenclature



3.Specifications



AC/DC, 2P, 1modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
EBS5CHZ-EN-16/20	16A	6A	AC/DC 12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V	
EBS5CHZ-EN-20/20	20A	7A		
EBS5CHZ-EN-25/20	25A	9A		
EBS5CHZ-EN-16/11	16A	6A		
EBS5CHZ-EN-20/11	20A	7A		
EBS5CHZ-EN-25/11	25A	9A		
EBS5CHZ-EN-16/02	16A	6A		
EBS5CHZ-EN-20/02	20A	7A		
EBS5CHZ-EN-25/02	25A	9A		

AC/DC, 2P, 2modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
EBS5CHZ-EN-32/20	32A	12A	AC/DC 12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V	
EBS5CHZ-EN-40/20	40A	18A		
EBS5CHZ-EN-63/20	63A	25A		
EBS5CHZ-EN-32/11	32A	12A		
EBS5CHZ-EN-40/11	40A	18A		
EBS5CHZ-EN-63/11	63A	25A		
EBS5CHZ-EN-32/02	32A	12A		
EBS5CHZ-EN-40/02	40A	18A		
EBS5CHZ-EN-63/02	63A	25A		



AC/DC, 4P, 2modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
EBS5CHZ-EN-16/40	16A	6A	AC/DC 12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V	
EBS5CHZ-EN-20/40	20A	7A		
EBS5CHZ-EN-25/40	25A	9A		
EBS5CHZ-EN-16/04	16A	6A		
EBS5CHZ-EN-20/04	20A	7A		
EBS5CHZ-EN-25/04	25A	9A		
EBS5CHZ-EN-16/22	16A	6A		
EBS5CHZ-EN-20/22	20A	7A		
EBS5CHZ-EN-25/22	25A	9A		
EBS5CHZ-EN-16/31	16A	6A		
EBS5CHZ-EN-20/31	20A	7A		
EBS5CHZ-EN-25/31	25A	9A		

AC/DC, 4P, 3modules

Contactor Model	Ie Rating		Uc	Circuit Diagram
	AC-7a AC-1	AC-7b AC-3		
EBS5CHZ-EN-32/40	32A	12A	AC/DC 12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V	
EBS5CHZ-EN-40/40	40A	18A		
EBS5CHZ-EN-63/40	63A	25A		
EBS5CHZ-EN-32/04	32A	12A		
EBS5CHZ-EN-40/04	40A	18A		
EBS5CHZ-EN-63/04	63A	25A		
EBS5CHZ-EN-32/22	32A	12A		
EBS5CHZ-EN-40/22	40A	18A		
EBS5CHZ-EN-63/22	63A	25A		
EBS5CHZ-EN-32/31	32A	12A		
EBS5CHZ-EN-40/31	40A	18A		
EBS5CHZ-EN-63/31	63A	25A		



4.Modular contactor auxiliary

Auxiliary Contacts

The Auxiliary contacts are indicator contactor contacts status switch OFF or ON

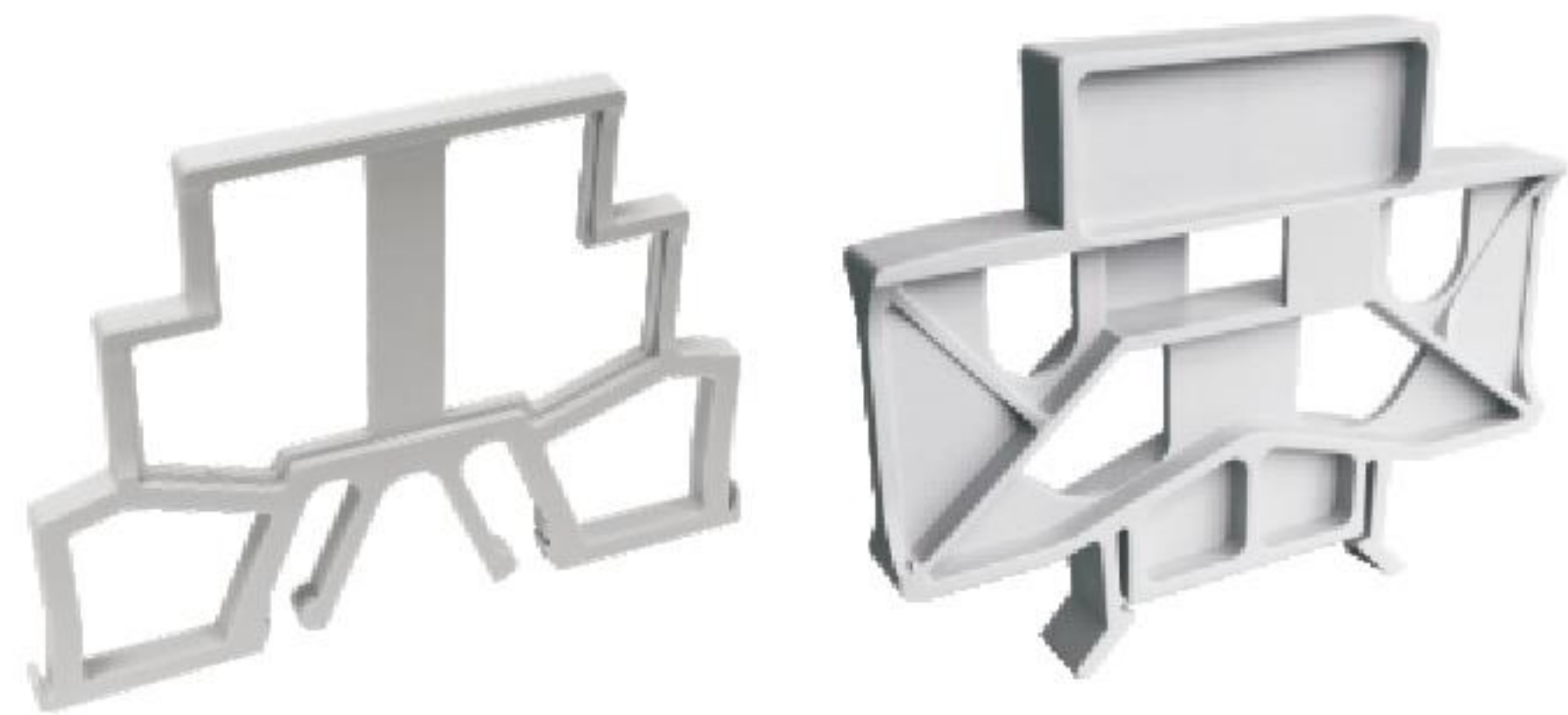
	AC-12		AC-15		DC-13		Rated current	Circuit diagram
	C.V.	C.A.	C.V.	C.A.	C.V.	C.A.		
EBS5CHZ-EN-AUC11	240V	5A	230V	2A	DC 130V	1A	5A	
EBS5CHZ-EN-AUC20	240V	5A	230V	2A	DC 130V	1A	5A	



Spacing piece

Spacers are used to reduce the temperature rise of devices mounted side by side. It is recommended to separate electronic equipment (temperature adjustment devices, programmable timer etc.) from electromechanical equipment (impulse relays, contactors)

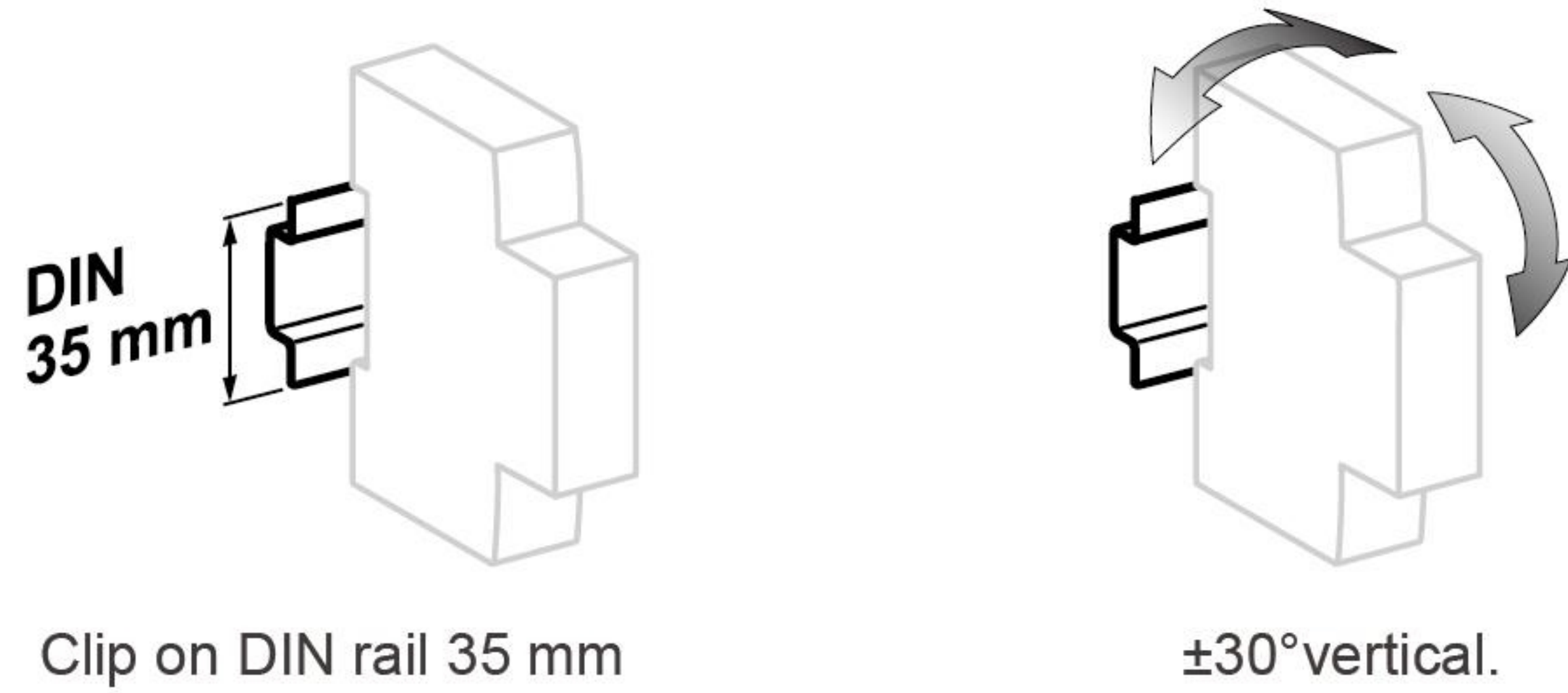
Technical specifications	
Spacing piece	3mm spacing piece
	9mm spacing piece



5.Main parameter and technical performance

Power circuit		
Voltage rating(Ue)	1P,2P	250V AC
	3P,4P	400V AC
Frequency		50/60Hz
Endurance(O-C)		1,000,000 cycles
Electrical		100,000 cycles
Maximum number of switching operation a day		100
Insulation vvltage(Ui)		500 V AC
Pollution degree		2
Rated impulse withstand voltage(Uimp)		2.5kV(4kV for 12/24/48VAC)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		-5 ℃ ~+60 ℃
Storage temperature		-40 ℃ ~+70 ℃
Tropicalization(IEC 60068.1)		Treatment 2 (relative humidity 95% at 55 ℃
ELSV compliance(Extra Low Safety Voltage)for 12/24/48vac versions		
The product control conforms to the SELV(safety extra low voltage)requirements		

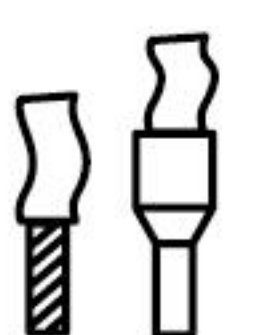
(1) In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50 ℃ and 60 ℃ ,it is necessary to use a spacer, between each contactor

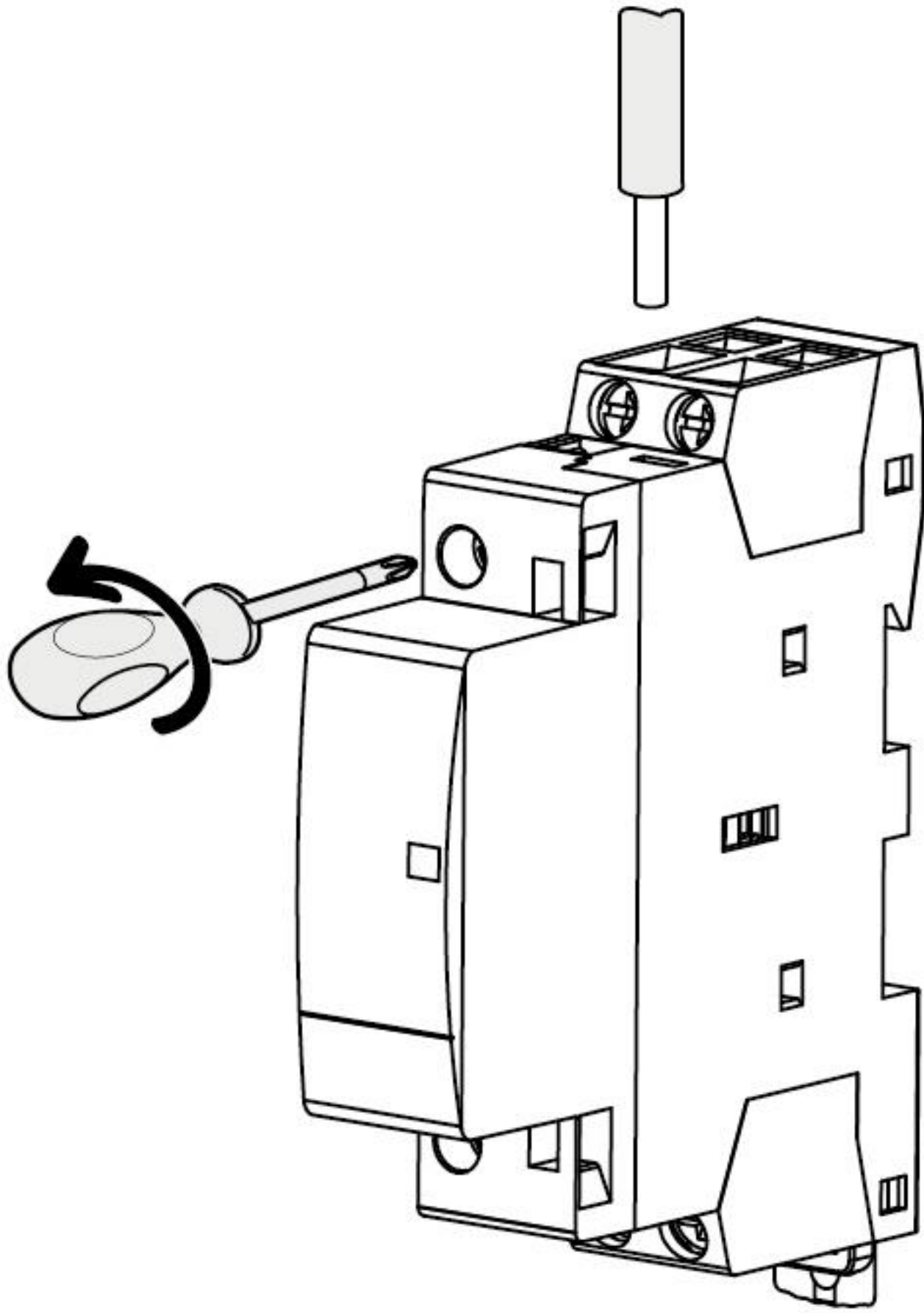


6.Packing information

Poles	Rated Current (A)	BOX QTY	CTN QTY	Automatic G.W.(kg)	Contactor N.W.(kg)	Manual G.W.(kg)	Contactor N.W.(kg)	Carton size (mm)
2P	16	12	120	16.3	14.1	16.3	14.1	500X260X190
	20	12	120	16.3	14.1	16.3	14.1	500X260X190
	25	12	120	16.3	14.1	16.3	14.1	500X260X190
	32	6	60	15.7	13.9	15.7	13.9	500X260X190
	40	6	60	15.7	13.9	15.7	13.9	500X260X190
	63	6	60	15.7	13.9	15.7	13.9	500X260X190
4P	16	6	60	14.2	12.3	13.9	12.3	500X260X190
	20	6	60	14.2	12.3	13.9	12.3	500X260X190
	25	6	60	14.2	12.3	13.9	12.3	500X260X190
	32	4	40	15.0	13.3	15.0	13.3	500X260X190
	40	4	40	15.0	13.3	15.0	13.3	500X260X190
	63	4	40	15.0	13.3	15.0	13.3	500X260X190

7.Connection parameter

Type		Rating	Length tripping	Circuit	Tightening torque	Copper cables	
						Rigid	Flexible or ferrule
EBS5CHZ-EN	PZ1:4mm	16-100A	9mm	Control	0.8N.m		
		16-25A				1.5~2.5mm ² 2~1.5mm ²	1.5~2.5mm ² 2~2.5mm ²
	PZ2:6mm	40-63A	14mm	Power	3.5N.m	1.5~6mm ²	1~4mm ²
		100A				6~25mm ² 6~35mm ²	6~16mm ² 6~35mm ²
BACTs	PZ1:4mm	-	9mm	-	0.8N.m	1.5~2.5mm ² 2~1.5mm ²	1.5~2.5mm ² 2~2.5mm ²



8.Dimensions

