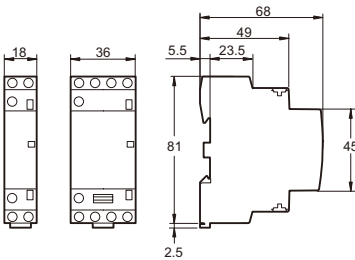


MODULAR CONTACTORS



BCH8 16/20/25A

Denor Modular Contactors BCH8 used for commutation of single-phase and three-phase low power electrical consumers. They can be combined with auxiliary control, protection and indication functions; can be used to remote control applications in alternative networks: Lighting, heating ventilation roller blinds, sanitary hot water; mechanical ventilation systems; load-shedding of non-priority circuits, etc.

There are available in two versions:

- Contactors without manually-operated
- Contactors with manually-operated
 - automatic operating mode
 - temporary "ON" override
 - permanent "ON" override: used to lock the contactor in the ON position during installation maintenance
 - shutdown

FUNCTIONS:

- switching on of consumers
- making of control systems
- remarkable with high reliability of current characteristics
- reliable switching on or separation of power contacts

TECHNICAL DATA:

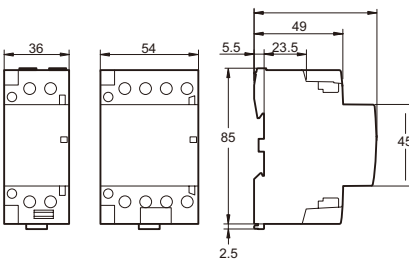
- comply with standards IEC/EN 61095
- operation class: AC 7a
- rated operating voltage of the controlling coil: 12Vac ; 24Vac ; 48Vac ; 110Vac ; 127Vac ; 230Vac ; 380Vac ; 400Vac 50/60Hz, etc
- insulation voltage: 500V AC
- pollution degree: 2
- rated impulse withstand voltage(Uimp): 2.5kV (4kV for 12/24/48V AC)
- electrical endurance (number of cycles): ≥50,000

MOUNTING:

- mounting to 35mm DIN-rail
- mounting : vertical gradient – maximum ± 5°
- plastic: nonflammable (self-extinguishing material)
- ambient temperature: -10°C to + 65°C
- degree of protection(IEC 60529) : IP20
- tropicalization(IEC 60068-1) : treatment 2 (relative humidity 95% at 55°C)

Consumption

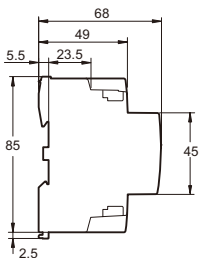
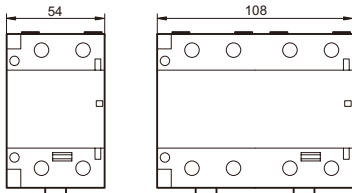
Type	Rating (In)		Control voltage (VAC)(50/60Hz)	Consumption		Max. power	
	AC-7a	AC-7b		Holding	Inrush		
1P	16A	5A	12	3.8 VA	15 VA	1.3 W	
			24	3.8 VA	15 VA	1.3 W	
			48	3.8 VA	15 VA	1.3 W	
			220...240	2.7 VA	9.2 VA	1.2 W	
	25A	8.5A	220...240	2.7 VA	9.2 VA	1.2 W	
2P							
3P	16A	5A	12	3.8 VA	15 VA	1.3 W	
			24	3.8 VA	15 VA	1.3 W	
			48	3.8 VA	15 VA	1.3 W	
			220...240	2.7 VA	9.2 VA	1.2 W	
		20A	6.4A	220...240	2.7 VA	9.2 VA	1.2 W
	25A	8.5A	24	3.8 VA	15 VA	1.3 W	
			48	3.8 VA	15 VA	1.3 W	
		40A	15A	220...240	4.6 VA	34 VA	1.6 W
	63A	20A	24	4.6 VA	34 VA	1.6 W	
			48	4.6 VA	34 VA	1.6 W	
220...240			4.6 VA	34 VA	1.6 W		
	100A	-	220...240	6.5 VA	53 VA	2.1 W	
4P	16A	5A	24	4.6 VA	34 VA	1.6 W	
			48	4.6 VA	34 VA	1.6 W	
			220...240	4.6 VA	34 VA	1.6 W	
			220...240	4.6 VA	34 VA	1.6 W	
	20A	6.4A	220...240	4.6 VA	34 VA	1.6 W	
25A	8.5A	24	4.6 VA	34 VA	1.6 W		
		48	4.6 VA	34 VA	1.6 W		
	40A	15A	220...240	6.5 VA	53 VA	2.1 W	
63A	20A	24	6.5 VA	53 VA	2.1 W		
		48	6.5 VA	53 VA	2.1 W		
		220...240	6.5 VA	53 VA	2.1 W		
	100A	-	220...240	13 VA	106 VA	4.2 W	



BCH8 40/63A

MODULAR CONTACTORS

Basic Information for Standard Contactors



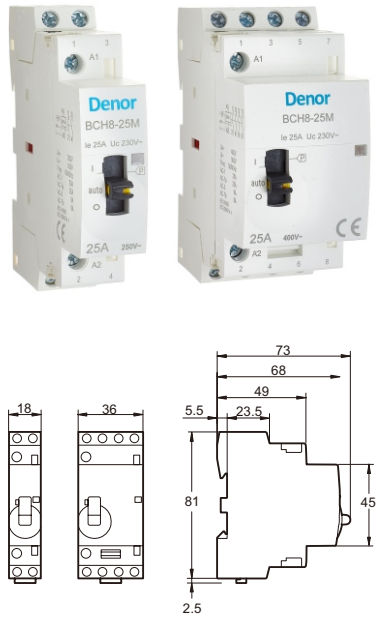
BCH8 100A

Type	Rating(In)	AC-7a	AC-7b	Control voltage (VAC)(50/60Hz)	Contact	In 18 mm modules	Denor code
1P	16A	6A	230	1NO	1	CT161NO	
				1NC	1	CT161NC	
	20A	6A	230	1NO	1	CT201NO	
				1NC	1	CT201NC	
	25A	8.5A	230	1NO	1	CT251NO	
				1NC	1	CT251NC	
2P	16A	6A	230	2NO	1	CT162NO	
				2NC	1	CT162NC	
				1NO+1NC	1	CT161NCNO	
	20A	6A	230	2NO	1	CT202NO	
				2NC	1	CT202NC	
				1NO+1NC	1	CT201NO1NC	
	25A	8.5A	230	2NO	1	CT252NO	
				2NC	1	CT252NC	
				1NO+1NC	1	CT251NO1NC	
	40A	15A	230	2NO	2	CT402NO	
				2NC	2	CT402NC	
				1NO+1NC	2	CT401NO1NC	
	63A	20A	230	2NO	2	CT632NO	
				2NC	2	CT632NC	
				1NO+1NC	2	CT631NO1NC	
	100A	-	230	2NO	3	CT1002NO	
				2NC	3	CT1002NC	
				1NO+1NC	3	CT1001NONC	
3P	16A	6A	230	3NO	2	CT163NO	
				3NO	2	CT253NO	
	25A	8.5A	230	3NO	3	CT403NO	
				3NO	3	CT633NO	
	100A	-	230	3NO	6	CT1003NO	
				3NO	6	CT1003NO	
4P	20A	6A	230	4NO	2	CT204NO	
				2NO+2NC	2	CT202NO2NC	
				3NO+1NC	2	CT203NO1NC	
	25A	8.5A	230	4NC	2	CT204NC	
				4NO	2	CT254NO	
				2NO+2NC	2	CT252NO2NC	
	40A	15A	230	3NO+1NC	2	CT253NO1NC	
				4NC	2	CT254NC	
				4NO	3	CT404NO	
	63A	20A	230	2NO+2NC	3	CT402NO2NC	
				3NO+1NC	3	CT403NO1NC	
				4NC	3	CT404NC	
	100A	-	230	4NO	3	CT634NO	
				2NO+2NC	3	CT632NO2NC	
				3NO+1NC	3	CT633NO1NC	
	100A	-	230	4NC	3	CT634NC	
				4NO	6	CT1004NO	
				2NO+2NC	6	CT1002NONC	
100A	-	230	3NO+1NC	6	CT1003NONC		
			4NC	6	CT1004NC		
			4NO	6	CT1004NO		

Warm tips: customized coils voltage can be 12VAC, 24VAC, 110VAC, 127VAC, 220VAC, 380VAC,etc 50/60Hz

MODULAR CONTACTORS

Basic Information for Manual Control Contactors



BCH8 manual control contactor 16/25A



BCH8 manual control contactor 40/63A

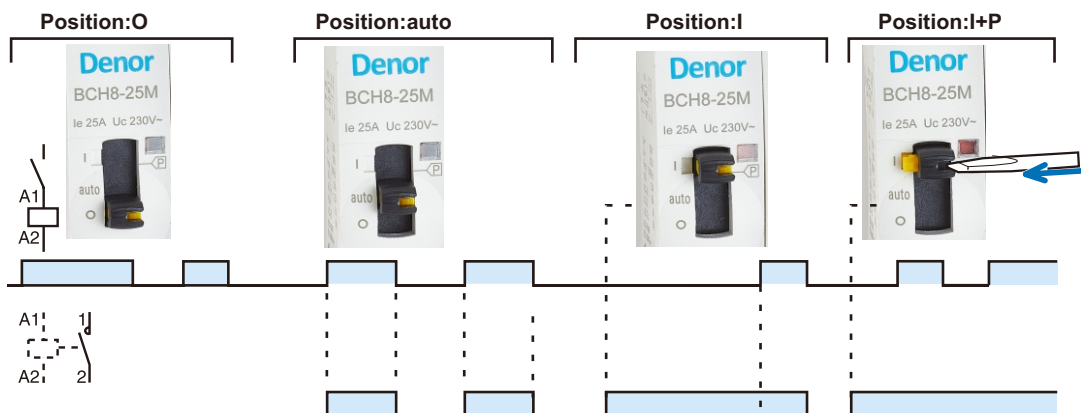
Type	Rating(In)	AC-7a	AC-7b	Control voltage (V AC)(50/60Hz)	Contact	In 18 mm modules	Denor code
2P	16A	AC-7a	6A	230	2NO	1	CTM162NO
					2NC	1	CTM162NC
					1NO+1NC	1	CTM161NONC
	25A	AC-7a	8.5A	230	2NO	1	CTM252NO
					2NC	1	CTM252NC
					1NO+1NC	1	CTM251NONC
	40A	AC-7a	15A	230	2NO	2	CTM402NO
					2NC	2	CTM402NC
					1NO+1NC	2	CTM401NONC
	63A	AC-7a	20A	230	2NO	2	CTM632NO
					2NC	2	CTM632NC
					1NO+1NC	2	CTM631NONC
3P	25A	AC-7a	8.5A	230	3NO	2	CTM253NO
					3NO	3	CTM403NO
					3NO	3	CTM633NO
	40A	AC-7a	15A	230	3NO	2	CTM404NO
					3NO	3	CTM634NO
					3NO	3	CTM634NC
4P	25A	AC-7a	8.5A	230	4NO	2	CTM254NO
					4NC	2	CTM254NC
					2NO+2NC	2	CTM252NONC
	40A	AC-7a	15A	230	4NO	3	CTM404NO
					4NC	3	CTM404NC
					2NO+2NC	3	CTM402NONC
63A	AC-7a	20A	230	4NO	3	CTM634NO	
				4NC	3	CTM634NC	
				2NO+2NC	3	CTM632NONC	

Warm tips: customized coils voltage can be 12VAC, 24VAC, 110VAC, 127VAC, 220VAC, 380VAC, etc 50/60Hz

Operation(Manual Control Contactors)

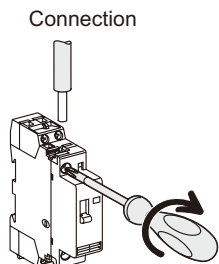
Manually-operated contactors have a 4-position selector switch on their front face:

- shutdown
- automatic operating mode
- temporary "ON" override
- permanent "ON" override: used to lock the contactor in the ON position during installation maintenance



MODULAR CONTACTORS

Connection



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

AUXILIARY FOR MODULAR CONTACTORS



Denor auxiliary allows indication or control of the "open" or "closed" position of the contactor power contacts

MOUNTING:

- mounted to the right of modular contactors
- 9mm width

Technical Specifications

Control voltage (U _e)	VAC	24...240	Denor code
	VDC	24...130	
Operating frequency	Hz	50/60	
Width in 9 mm modules			
Auxiliary contact (breaking capacity)	<ul style="list-style-type: none"> • Minimum: 10mA at 24V DC/AC-COSφ=1 • Maximum: <ul style="list-style-type: none"> ○ 5A at 240V AC-COSφ=1 ○ 1 A at 130V DC 		
Number of contacts	2NO		CTS2NO
	1NO+1NC		CTS1NO1NC
Operating temperature	°C	-10°C to +65°C	
Storage temperature	°C	-40°C to +70°C	

