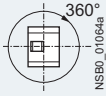
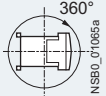


Accessories and Spare Parts

For 3RT2, 3RH2 Contactors and Contactor Relays

Accessories

More information

Versions		3RT29 16-2BE01 OFF-delay devices	3RT29 16-2BK01	3RT29 16-2BL01
Connectable contactor sizes Caution! Only contactors and contactor relays with DC operation can be connected.		S00 ...S3 --	S00/S0 S00/S0	S00/S0 S00/S0
• DC supply • AC supply	Type	3RT20 ...-1BB4., 3RH2. ...-1BB40	3RT20 1.-1BF4, 3RT20 2.-1BF4, 3RH2. ...-1BF40	3RT20 1.-1BM4./1BP4., 3RT20 2.-1BM4./1BP4., 3RH2. ...-1BM40/1BP40
Permissible mounting position				
Rated control supply voltage U_s Primary operating range	V	24 (DC) 0.9 ... 1.1 U_s	110 (AC/DC)	220/230 (AC/DC)
Rated frequency/ies with AC supply	f	Hz $\pm 5\%$	--	50/60
Ambient temperature permissible:				
• During operation				
- Side-by-side mounting without distance	T_u	°C	-25 ... +50	
- Side-by-side mounting with 5 mm distance	T_u	°C	-25 ... +60	
• During storage	T_u	°C	-40 ... +80	
OFF-delay¹⁾ (minimum times at $U_{sp} = 0.9 \times U_s$, $T_{sp} = 20$ °C)			Notes: In practice the mean value is 1.5 times the minimum time.	
• S00	$t_{off} >$	ms	200	100
• S0	$t_{off} >$	ms	100	80
• S2 (only for DC supply)	$t_{off} >$	ms	90	--
• S3 (only for DC supply)	$t_{off} >$	ms	70	--
Installed capacity C 3RT19 16-2B.01 Capacitor voltage	μF V	2000 35	68 180	68 350
ON-delay (maximum at $U_{sp} = 0.9 \times U_s$, $T_{sp} = 20$ °C)			Note: The total ON-delay = Contactor make-time + t_{on}	
• S00	$t_{on} <$	ms	10	60
• S0	$t_{on} <$	ms	10	80
				200
				250
Mechanical endurance	Operating cycles	30 million		
Endurance, electrical approx.	Operating cycles	>1 million		
Switching frequency z max. (at $T_u = 60$ °C)	h^{-1}	300		
Power loss P_v max. approx.	W	0.4	0.5	1
Surge suppression		With varistor, integrated		
Conductor cross-sections		2)		
U_{sp} = Coil voltage T_{sp} = Coil temperature				

1) Doubling the delay time can be achieved by doubling the capacitance. Commercially available capacitors can be used, which can be connected to terminals C+ and Z-.

2) See "Power Contactors for Switching Motors" --> 3RT20 1 contactors.

Accessories and Spare Parts

For 3RT2, 3RH2 Contactors and Contactor Relays

Accessories

Contactor	Type	3RT29 26-2P . Pneumatic delay block ¹⁾	
General data			
Mechanical endurance	Operating cycles		5 million
Electrical endurance at I_e	Operating cycles		1 million
Rated insulation voltage U_i (pollution degree 3)	V		690
Permissible ambient temperature			
• During operation	°C		-25 ... +60
• During storage	°C		-50 ... +80
Rated operational currents I_e Acc. to utilization categories EN 60947			
• AC-12	A		10
• AC-15/AC-14 at U_e	up to 230/220 V A		6
	400/380 V A		4
	500 V A		2.5
	690/660 V A		1.5
• DC-13 at U_e	24 V A		4
	48 V A		2
	110 V A		0.7
	220 V A		0.3
	440 V A		0.15
Conductor cross-sections			
• Solid, stranded:	mm ²		2 x 0.5 ... 2.5 ²⁾ or 2 x 2.5 ... 4 ²⁾
• Finely stranded with end sleeve	mm ²		2 x 0.5 ... 2.5
• AWG cables	AWG		2 x 22 ... 14
• Tightening torque of the terminal screws	Nm		0.8 ... 1.1
Time delay			
• Accuracy			±10 %
Ⓢ and Ⓣ rated data			
• Rated voltage	V AC		600
• Switching capacity			A 600, Q 600

¹⁾ For size S0.

In addition to the pneumatic delay block, no other auxiliary contacts are permitted.

²⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified.

Technical specifications according to EN 61812-1 (VDE 0435 Part 2021)

Contactor	Type	3RT29 26-3A Mechanical latching block for the 3RT2. 2. contactors	
Rated insulation voltage U_i (pollution degree 3)	V		690
Mechanical endurance (operating cycles)	• With 3RT2. 2		3 million
Permissible ambient temperature			
• During operation	°C		-25 ... +60
• During storage	°C		-50 ... +80
Degree of protection acc. to EN 60947-1, Appendix C			IP20
Operating range of the solenoid coil At AC 50/60 Hz and DC			0.85 ... 1.1 x U_s
Power consumption of the solenoid coils of the unlocking magnet (for cold coil and 1.0 x U_s) AC and DC operation	W		Approx. 4
Command duration for de-energizing			
• AC operation	ms		18 ... 31
• DC operation	ms		18 ... 26
Conductor cross-sections			
• Solid	mm ²		2 x (0.5 ... 2.5) 1 x 4
• AWG cables, solid	AWG		2 x 14; 1 x 12
• Finely stranded with end sleeve	mm ²		2 x (0.5 ... 2.5) 1 x 2.5
• AWG cables, finely stranded with end sleeve	AWG		2 x 14; 1 x 12
Tightening torque of the terminal screws			
	Nm		0.8 ... 1.1
	lb.in		7 ... 9.5