

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

Selection and ordering data

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101

3



3RT20 1.-1A...



3RT20 1.-2A...

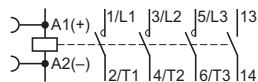
Rated data		Auxiliary contacts		Rated control supply voltage U_s at 50/60 Hz	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_{ij} : Up to 60 °C	AC-1, T_{ij} : 40 °C	Ident. No.	Version			Order No.	Price per PU	Order No.	Price per PU
Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and 400 V	Operational current I_e up to 690 V	NO NC	V AC					
A	kW	A							

For screw and snap-on mounting onto TH 35 standard mounting rail

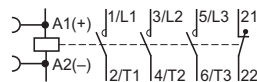
Size S00¹⁾²⁾

Terminal designations according to EN 50012 or EN 50005

- With auxiliary contact 1 NO, Ident. No. **10**



- With auxiliary contact 1 NC, Ident. No. **01**



7	3	18	10	1	--	24	▶	3RT20 15-1AB01	▶	3RT20 15-2AB01
						110	▶	3RT20 15-1AF01	▶	3RT20 15-2AF01
						230	▶	3RT20 15-1AP01	▶	3RT20 15-2AP01
			01	--	1	24	▶	3RT20 15-1AB02	▶	3RT20 15-2AB02
						110	▶	3RT20 15-1AF02	▶	3RT20 15-2AF02
						230	▶	3RT20 15-1AP02	▶	3RT20 15-2AP02
9	4	22	10	1	--	24	▶	3RT20 16-1AB01	▶	3RT20 16-2AB01
						110	▶	3RT20 16-1AF01	▶	3RT20 16-2AF01
						230	▶	3RT20 16-1AP01	▶	3RT20 16-2AP01
			01	--	1	24	▶	3RT20 16-1AB02	▶	3RT20 16-2AB02
						110	▶	3RT20 16-1AF02	▶	3RT20 16-2AF02
						230	▶	3RT20 16-1AP02	▶	3RT20 16-2AP02
12	5.5	22	10	1	--	24	▶	3RT20 17-1AB01	▶	3RT20 17-2AB01
						110	▶	3RT20 17-1AF01	▶	3RT20 17-2AF01
						230	▶	3RT20 17-1AP01	▶	3RT20 17-2AP01
			01	--	1	24	▶	3RT20 17-1AB02	▶	3RT20 17-2AB02
						110	▶	3RT20 17-1AF02	▶	3RT20 17-2AF02
						230	▶	3RT20 17-1AP02	▶	3RT20 17-2AP02
16	7.5	22	10	1	--	24	▶	3RT20 18-1AB01	▶	3RT20 18-2AB01
						110	▶	3RT20 18-1AF01	▶	3RT20 18-2AF01
						230	▶	3RT20 18-1AP01	▶	3RT20 18-2AP01
			01	--	1	24	▶	3RT20 18-1AB02	▶	3RT20 18-2AB02
						110	▶	3RT20 18-1AF02	▶	3RT20 18-2AF02
						230	▶	3RT20 18-1AP02	▶	3RT20 18-2AP02

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

1) The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these versions.

2) For size S00: Coil operating range
 at 50 Hz: 0.8 ... 1.1 × U_s ,
 at 60 Hz: 0.85 ... 1.1 × U_s .

Power Contactors for Switching Motors

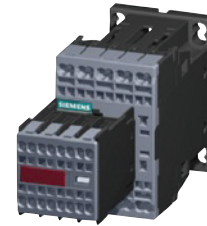
SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 1.-1AP04-3MA0



3RT20 1.-2AP04-3MA0

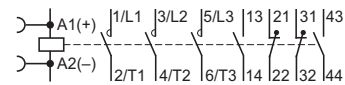
Rated data		Auxiliary contacts		Rated control supply voltage U_s at 50/60 Hz	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.	Version			Order No.	Price per PU	Order No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V								
400 V									
kW									
A	A		NO NC	V AC					

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S00¹⁾

With permanently mounted auxiliary switch block

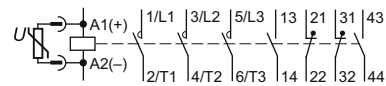
Terminal designations according to EN 50012



7	9	12	16	3	4	5.5	7.5	18	22	2	2	230	B	3RT20 15-1AP04-3MA0	B	3RT20 15-2AP04-3MA0

With permanently mounted auxiliary switch block and varistor plugged onto the front side

Terminal designations according to EN 50012



7	9	12	16	3	4	5.5	7.5	18	22	2	2	230	B	3RT20 15-1CP04-3MA0	B	3RT20 15-2CP04-3MA0

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

¹⁾ For size S00: Coil operating range at 50 Hz: 0.8 ... 1.1 × U_s , at 60 Hz: 0.85 ... 1.1 × U_s .

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 2.-1A.00



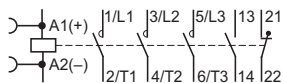
3RT20 2.-2A.00

Rated data		Auxiliary contacts		Rated control supply voltage	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.	Version	U_s at 50 Hz		⊕		⊕	
Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and 400 V					Order No.	Price per PU	Order No.	Price per PU
A	400 V kW	A	NO NC	V AC					

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0¹⁾

Terminal designations according to EN 50012



Rated current I_e [A]	Rated power [kW]	Rated voltage [V]	Ident. No.	Version	Control voltage [V AC]	Order No.	Order No.
9	4	40	11	1 1	24 110 230	▶ 3RT20 23-1AB00 ▶ 3RT20 23-1AF00 ▶ 3RT20 23-1AP00	B ▶ 3RT20 23-2AB00 ▶ 3RT20 23-2AF00 ▶ 3RT20 23-2AP00
12	5.5	40	11	1 1	24 110 230	▶ 3RT20 24-1AB00 ▶ 3RT20 24-1AF00 ▶ 3RT20 24-1AP00	▶ 3RT20 24-2AB00 ▶ 3RT20 24-2AF00 ▶ 3RT20 24-2AP00
16	7.5	40	11	1 1	24 110 230	▶ 3RT20 25-1AB00 ▶ 3RT20 25-1AF00 ▶ 3RT20 25-1AP00	▶ 3RT20 25-2AB00 ▶ 3RT20 25-2AF00 ▶ 3RT20 25-2AP00
25	11	40	11	1 1	24 110 230	▶ 3RT20 26-1AB00 ▶ 3RT20 26-1AF00 ▶ 3RT20 26-1AP00	▶ 3RT20 26-2AB00 ▶ 3RT20 26-2AF00 ▶ 3RT20 26-2AP00
32	15	50	11	1 1	24 110 230	▶ 3RT20 27-1AB00 ▶ 3RT20 27-1AF00 ▶ 3RT20 27-1AP00	▶ 3RT20 27-2AB00 ▶ 3RT20 27-2AF00 ▶ 3RT20 27-2AP00
38	18.5	50	11	1 1	24 110 230	▶ 3RT20 28-1AB00 ▶ 3RT20 28-1AF00 ▶ 3RT20 28-1AP00	B ▶ 3RT20 28-2AB00 ▶ 3RT20 28-2AF00 ▶ 3RT20 28-2AP00

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

For spare parts, see page 3/270.

¹⁾ The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these versions.

Power Contactors for Switching Motors

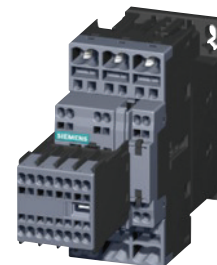
**SIRIUS 3RT20 contactors,
3-pole, 3 ... 18.5 kW**

AC operation

PU (UNIT, SET, M) = 1
PS* = 1 unit
PG = 101



3RT20 2.-1A.04



3RT20 2.-2A.04

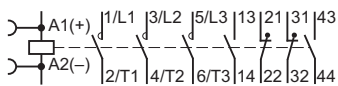
Rated data		Auxiliary contacts		Rated control supply voltage U_s at 50 Hz	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.	Version			⊕		⊕	
Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and 400 V	Operational current I_e up to 690 V				Order No.	Price per PU	Order No.	Price per PU
A	400 V kW	A	NO NC	V AC					

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0¹⁾

With mounted auxiliary switch block (removable)²⁾

Terminal designations according to EN 50012



9	4	40	22	2	2	24 110 230	B	3RT20 23-1AB04 3RT20 23-1AP04	B	3RT20 23-2AB04 3RT20 23-2AP04
12	5.5	40	22	2	2	24 110 230	B	3RT20 24-1AB04 3RT20 24-1AF04 3RT20 24-1AP04	B	3RT20 24-2AB04 3RT20 24-2AF04 3RT20 24-2AP04
16	7.5	40	22	2	2	24 110 230	B	3RT20 25-1AB04 3RT20 25-1AF04 3RT20 25-1AP04	B	3RT20 25-2AB04 3RT20 25-2AF04 3RT20 25-2AP04
25	11	40	22	2	2	24 110 230	B	3RT20 26-1AB04 3RT20 26-1AF04 3RT20 26-1AP04	B	3RT20 26-2AB04 3RT20 26-2AF04 3RT20 26-2AP04
32	15	50	22	2	2	24 110 230	B	3RT20 27-1AB04 3RT20 27-1AF04 3RT20 27-1AP04	B	3RT20 27-2AB04 3RT20 27-2AF04 3RT20 27-2AP04
38	18.5	50	22	2	2	24 110 230	B	3RT20 28-1AB04 3RT20 28-1AF04 3RT20 28-1AP04	B	3RT20 28-2AB04 3RT20 28-2AF04 3RT20 28-2AP04

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

For spare parts, see page 3/270.

¹⁾ The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these versions.

²⁾ Order No. for the auxiliary switch block (removable): 3RH29 11-.HA11.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

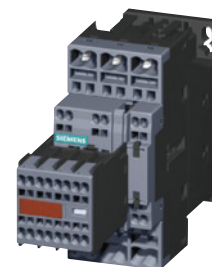
AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101

3



3RT20 2.-1AL24-3MA0



3RT20 2.-2AL24-3MA0

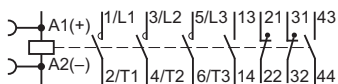
Rated data		Auxiliary contacts		Rated control supply voltage	DT	Screw terminals		DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C		AC-1, T_U : 40 °C		U_s at 50/60 Hz		Order No.	Price per PU		Order No.	Price per PU
Operational current I_e up to	Rating of induction motors at 50 Hz and	Operational current I_e up to	Ident. No.							
400 V	400 V	690 V								
A	kW	A	NO	NC	V AC					

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0

With permanently mounted auxiliary switch block¹⁾

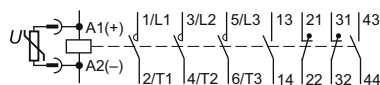
Terminal designations according to EN 50012



9	4	40	22	2	2	230	B	3RT20 23-1AL24-3MA0	B	3RT20 23-2AL24-3MA0
12	5.5	40	22	2	2	230	B	3RT20 24-1AL24-3MA0	B	3RT20 24-2AL24-3MA0
16	7.5	40	22	2	2	230	B	3RT20 25-1AL24-3MA0	B	3RT20 25-2AL24-3MA0
25	11	40	22	2	2	230	B	3RT20 26-1AL24-3MA0	B	3RT20 26-2AL24-3MA0
32	15	50	22	2	2	230	B	3RT20 27-1AL24-3MA0	B	3RT20 27-2AL24-3MA0
38	18.5	50	22	2	2	230	B	3RT20 28-1AL24-3MA0	B	3RT20 28-2AL24-3MA0

With permanently mounted auxiliary switch block and varistor plugged into the front side

Terminal designations according to EN 50012



9	4	40	22	2	2	230	B	3RT20 23-1CL24-3MA0	B	3RT20 23-2CL24-3MA0
12	5.5	40	22	2	2	230	B	3RT20 24-1CL24-3MA0	B	3RT20 24-2CL24-3MA0
16	7.5	40	22	2	2	230	B	3RT20 25-1CL24-3MA0	B	3RT20 25-2CL24-3MA0
25	11	40	22	2	2	230	B	3RT20 26-1CL24-3MA0	B	3RT20 26-2CL24-3MA0
32	15	50	22	2	2	230	B	3RT20 27-1CL24-3MA0	B	3RT20 27-2CL24-3MA0
38	18.5	50	22	2	2	230	B	3RT20 28-1CL24-3MA0	B	3RT20 28-2CL24-3MA0

Other voltages according to page 3/36 on request.

¹⁾ No retrofitting of surge suppressors.

For accessories, see page 3/258.

For spare parts, see page 3/270.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

DC operation · DC solenoid system

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 1.-1B...



3RT20 1.-2B...

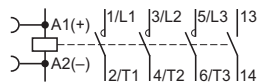
Rated data		AC-1, T_{ij} : 40 °C	Auxiliary contacts		Rated control supply voltage U_s	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_{ij} : Up to 60 °C	Rating of induction motors at 50 Hz and operational current I_e up to 400 V	Operational current I_e up to 690 V	Ident. No.	Version	V DC		Order No.	Price per PU	Order No.	Price per PU
A	400 V kW	A	NO	NC						

For screw and snap-on mounting onto TH 35 standard mounting rail

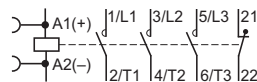
Size S00¹⁾

Terminal designations according to EN 50012 or EN 50005

• With auxiliary contact 1 NO, Ident. No. **10**



• With auxiliary contact 1 NC, Ident. No. **01**

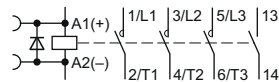


7	3	18	10	1	--	24	▶	3RT20 15-1BB41	▶	3RT20 15-2BB41
			01	--	1	24	▶	3RT20 15-1BB42	▶	3RT20 15-2BB42
9	4	22	10	1	--	24	▶	3RT20 16-1BB41	▶	3RT20 16-2BB41
			01	--	1	24	▶	3RT20 16-1BB42	▶	3RT20 16-2BB42
12	5.5	22	10	1	--	24	▶	3RT20 17-1BB41	▶	3RT20 17-2BB41
			01	--	1	24	▶	3RT20 17-1BB42	▶	3RT20 17-2BB42
16	7.5	22	10	1	--	24	▶	3RT20 18-1BB41	▶	3RT20 18-2BB41
			01	--	1	24	▶	3RT20 18-1BB42	▶	3RT20 18-2BB42

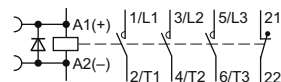
With integrated coil circuit (diode)

Terminal designations according to EN 50012

• With auxiliary contact 1 NO, Ident. No. **10**



• With auxiliary contact 1 NC, Ident. No. **01**



7	3	18	10	1	--	24	▶	3RT20 15-1FB41	▶	3RT20 15-2FB41
			01	--	1	24	▶	3RT20 15-1FB42	▶	3RT20 15-2FB42
9	4	22	10	1	--	24	▶	3RT20 16-1FB41	▶	3RT20 16-2FB41
			01	--	1	24	▶	3RT20 16-1FB42	▶	3RT20 16-2FB42
12	5.5	22	10	1	--	24	▶	3RT20 17-1FB41	▶	3RT20 17-2FB41
			01	--	1	24	▶	3RT20 17-1FB42	▶	3RT20 17-2FB42
16	7.5	22	10	1	--	24	▶	3RT20 18-1FB41	▶	3RT20 18-2FB41
			01	--	1	24	▶	3RT20 18-1FB42	▶	3RT20 18-2FB42

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

¹⁾ The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these special contactor versions with ring terminal lug connection.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

DC operation · DC solenoid system

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 1.-1BB4.-0CC0

3RT20 1.-2BB4.-0CC0

3RT20 1.-1BB44-3MA0

3RT20 1.-2BB44-3MA0

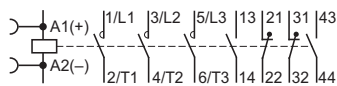
Rated data		Auxiliary contacts	Rated control supply voltage U_s	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.			Order No.	Price per PU	Order No.	Price per PU
Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and up to 400 V	Version						
A	kW	NO NC	V DC					

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S00

With permanently mounted auxiliary switch block

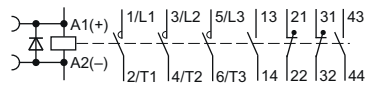
Terminal designations according to EN 50012



7	3	18	22	2	2	24	▶	3RT20 15-1BB44-3MA0	B	3RT20 15-2BB44-3MA0
9	4	22	22	2	2	24	▶	3RT20 16-1BB44-3MA0	B	3RT20 16-2BB44-3MA0
12	5.5	22	22	2	2	24	B	3RT20 17-1BB44-3MA0	B	3RT20 17-2BB44-3MA0
16	7.5	22	22	2	2	24	B	3RT20 18-1BB44-3MA0	B	3RT20 18-2BB44-3MA0

With permanently mounted auxiliary switch block and integrated coil circuit

Terminal designations according to EN 50012

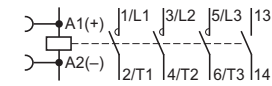


7	3	18	22	2	2	24	B	3RT20 15-1FB44-3MA0	B	3RT20 15-2FB44-3MA0
9	4	22	22	2	2	24	B	3RT20 16-1FB44-3MA0	B	3RT20 16-2FB44-3MA0
12	5.5	22	22	2	2	24	B	3RT20 17-1FB44-3MA0	B	3RT20 17-2FB44-3MA0
16	7.5	22	22	2	2	24	B	3RT20 18-1FB44-3MA0	B	3RT20 18-2FB44-3MA0

Contactors with communications interface

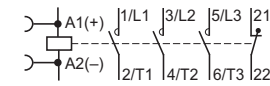
Terminal designations according to EN 50012 or EN 50005

• With auxiliary contact 1 NO, Ident. No. 10



7	3	18	10	1	--	24	▶	3RT20 15-1BB41-0CC0	▶	3RT20 15-2BB41-0CC0
			01	--	1	24	▶	3RT20 15-1BB42-0CC0	▶	3RT20 15-2BB42-0CC0
9	4	22	10	1	--	24	▶	3RT20 16-1BB41-0CC0	▶	3RT20 16-2BB41-0CC0
			01	--	1	24	▶	3RT20 16-1BB42-0CC0	▶	3RT20 16-2BB42-0CC0
12	5.5	22	10	1	--	24	▶	3RT20 17-1BB41-0CC0	▶	3RT20 17-2BB41-0CC0
			01	--	1	24	▶	3RT20 17-1BB42-0CC0	▶	3RT20 17-2BB42-0CC0
16	7.5	22	10	1	--	24	▶	3RT20 18-1BB41-0CC0	▶	3RT20 18-2BB41-0CC0
			01	--	1	24	▶	3RT20 18-1BB42-0CC0	▶	3RT20 18-2BB42-0CC0

• With auxiliary contact 1 NC, Ident. No. 01



Other voltages according to page 3/36 on request.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

DC operation · DC solenoid system

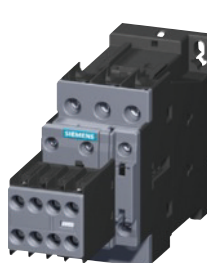
PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



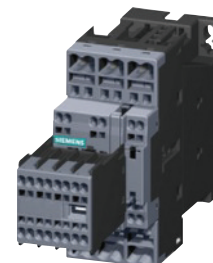
3RT20 2.-1B.40



3RT20 2.-2B.40



3RT20 2.-1B.44



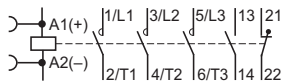
3RT20 2.-2B.44

Rated data		Auxiliary contacts		Rated control supply voltage U_s	DT	Screw terminals		DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.	Version			Order No.	Price per PU		Order No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V									
400 V										
kW										
A	A									

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0¹⁾

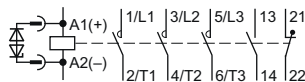
Terminal designations according to EN 50012



9	4	40	11	1	1	24		3RT20 23-1BB40		3RT20 23-2BB40
12	5.5	40	11	1	1	24		3RT20 24-1BB40		3RT20 24-2BB40
						220	B	3RT20 24-1BM40	B	3RT20 24-2BM40
16	7.5	40	11	1	1	24		3RT20 25-1BB40		3RT20 25-2BB40
						220	B	3RT20 25-1BM40	B	3RT20 25-2BM40
25	11	40	11	1	1	24		3RT20 26-1BB40		3RT20 26-2BB40
						220	B	3RT20 26-1BM40	B	3RT20 26-2BM40
32	15	50	11	1	1	24		3RT20 27-1BB40		3RT20 27-2BB40
						220	B	3RT20 27-1BM40	B	3RT20 27-2BM40
38	18.5	50	11	1	1	24		3RT20 28-1BB40		3RT20 28-2BB40
						220	B	3RT20 28-1BM40	B	3RT20 28-2BM40

With coil circuit plugged in (diode assembly)

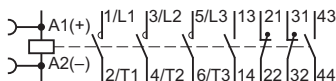
Terminal designations according to EN 50012



12	5.5	40	11	1	1	24		3RT20 24-1FB40		3RT20 24-2FB40
16	7.5	40	11	1	1	24		3RT20 25-1FB40		3RT20 25-2FB40
25	11	40	11	1	1	24		3RT20 26-1FB40		3RT20 26-2FB40
32	15	50	11	1	1	24		3RT20 27-1FB40		3RT20 27-2FB40
38	18.5	50	11	1	1	24		3RT20 28-1FB40		3RT20 28-2FB40

With mounted auxiliary switch block (removable)²⁾

Terminal designations according to EN 50012



9	4	40	22	2	2	24		3RT20 23-1BB44		3RT20 23-2BB44
12	5.5	40	22	2	2	24		3RT20 24-1BB44		3RT20 24-2BB44
16	7.5	40	22	2	2	24		3RT20 25-1BB44		3RT20 25-2BB44
25	11	40	22	2	2	24		3RT20 26-1BB44		3RT20 26-2BB44
32	15	50	22	2	2	24		3RT20 27-1BB44		3RT20 27-2BB44
38	18.5	50	22	2	2	24		3RT20 28-1BB44		3RT20 28-2BB44

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

¹⁾ The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these versions.

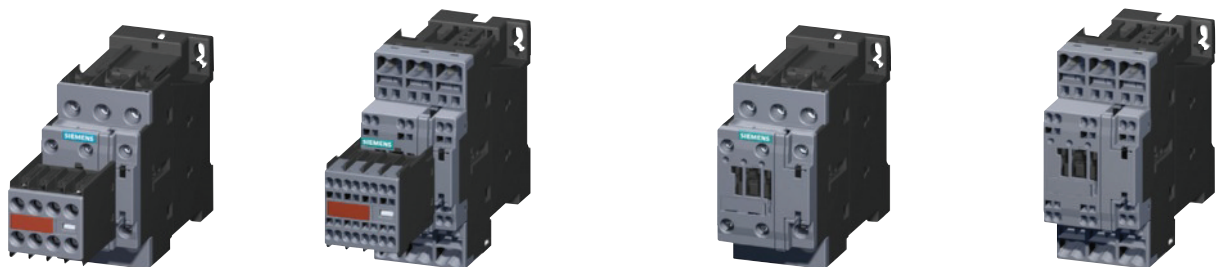
²⁾ Order No. for the auxiliary switch block (removable): 3RH29 11-.HA11.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

DC operation · DC solenoid system

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 2.-1BB44-3MA0

3RT20 2.-2BB44-3MA0

3RT20 2.-1BB40-0CC0

3RT20 2.-2BB40-0CC0

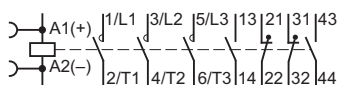
Rated data		Auxiliary contacts	Rated control supply voltage U_s	DT	Screw terminals	DT	Spring-type terminals	
AC-2 and AC-3, T_U : Up to 60 °C	AC-1, T_U : 40 °C	Ident. No.	V DC	DT	Order No.	Price per PU	Order No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V	Version						
400 V	400 V							
A	A							
kW								

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0

With permanently mounted auxiliary switch block¹⁾

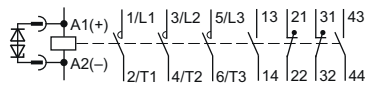
Terminal designations according to DIN 50012



9	12	16	25	32	38									
4	5.5	7.5	11	15	18.5	40	22	2	2	24	B	3RT20 23-1BB44-3MA0	B	3RT20 23-2BB44-3MA0
											B	3RT20 24-1BB44-3MA0	B	3RT20 24-2BB44-3MA0
											B	3RT20 25-1BB44-3MA0	B	3RT20 25-2BB44-3MA0
											B	3RT20 26-1BB44-3MA0	B	3RT20 26-2BB44-3MA0
											B	3RT20 27-1BB44-3MA0	B	3RT20 27-2BB44-3MA0
											B	3RT20 28-1BB44-3MA0	B	3RT20 28-2BB44-3MA0

With permanently mounted auxiliary switch block and coil circuit plugged in (diode assembly)

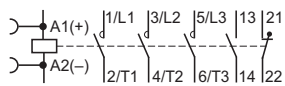
Terminal designations according to EN 50012



12	16	25	32	38									
5.5	7.5	11	15	18.5	40	22	2	2	24	B	3RT20 24-1FB44-3MA0	B	3RT20 24-2FB44-3MA0
										B	3RT20 25-1FB44-3MA0	B	3RT20 25-2FB44-3MA0
										B	3RT20 26-1FB44-3MA0	B	3RT20 26-2FB44-3MA0
										B	3RT20 27-1FB44-3MA0	B	3RT20 27-2FB44-3MA0
										B	3RT20 28-1FB44-3MA0	B	3RT20 28-2FB44-3MA0

Contactors with communication interface

Terminal designations according to EN 50012



9	12	16	25	32	38									
4	5.5	7.5	11	15	18.5	40	11	1	1	24	▶	3RT20 23-1BB40-0CC0	▶	3RT20 23-2BB40-0CC0
											▶	3RT20 24-1BB40-0CC0	▶	3RT20 24-2BB40-0CC0
											▶	3RT20 25-1BB40-0CC0	▶	3RT20 25-2BB40-0CC0
											▶	3RT20 26-1BB40-0CC0	▶	3RT20 26-2BB40-0CC0
											▶	3RT20 27-1BB40-0CC0	▶	3RT20 27-2BB40-0CC0
											▶	3RT20 28-1BB40-0CC0	▶	3RT20 28-2BB40-0CC0

Other voltages according to page 3/36 on request.

For accessories, see page 3/258.

¹⁾ No retrofitting of surge suppressors.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

UC operation - AC or DC operation
Extended operating range of the solenoid coils 0.7 ... 1.3 x U_s
Integrated coil circuit

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 101



3RT20 2.-1N.30



3RT20 2.-2N.30

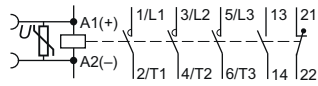
Rated data		Auxiliary contacts		Rated control supply voltage U _s	DT	Screw terminals		DT	Spring-type terminals	
AC-2 and AC-3, T _v : Up to 60 °C	AC-1, T _v : 40 °C	Ident. No.	Version			Order No.	Price per PU		Order No.	Price per PU
Operational current I _e up to 400 V	Rating of induction motors at 50 Hz and 400 V	Operational current I _e up to 690 V								
A	400 V kW	A	NO NC	V AC/DC						

For screw and snap-on mounting onto TH 35 standard mounting rail

Size S0¹⁾

With integrated coil circuit (varistor)

Terminal designations according to EN 50012



Rated current I _e [A]	Rated power P _e [kW]	Rated voltage U _e [V]	Ident. No.	Version	Control voltage U _s [V]	DT	Order No.	DT	Order No.
12	5.5	40	11	1 1	21 ... 28 95 ... 130 200 ... 280 ¹⁾	▶	3RT20 24-1NB30 3RT20 24-1NF30 3RT20 24-1NP30	B	3RT20 24-2NB30 3RT20 24-2NF30 3RT20 24-2NP30
16	7.5	40	11	1 1	21 ... 28 95 ... 130 200 ... 280 ¹⁾	▶	3RT20 25-1NB30 3RT20 25-1NF30 3RT20 25-1NP30	B	3RT20 25-2NB30 3RT20 25-2NF30 3RT20 25-2NP30
25	11	40	11	1 1	21 ... 28 95 ... 130 200 ... 280 ¹⁾	▶	3RT20 26-1NB30 3RT20 26-1NF30 3RT20 26-1NP30	▶	3RT20 26-2NB30 3RT20 26-2NF30 3RT20 26-2NP30
32	15	50	11	1 1	21 ... 28 95 ... 130 200 ... 280 ¹⁾	▶	3RT20 27-1NB30 3RT20 27-1NF30 3RT20 27-1NP30	▶	3RT20 27-2NB30 3RT20 27-2NF30 3RT20 27-2NP30
38	18.5	50	11	1 1	21 ... 28 95 ... 130 200 ... 280 ¹⁾	▶	3RT20 28-1NB30 3RT20 28-1NF30 3RT20 28-1NP30	B	3RT20 28-2NB30 3RT20 28-2NF30 3RT20 28-2NP30

¹⁾ At 280 V: upper limit = 1.1 x U_s.

Power Contactors for Switching Motors

SIRIUS 3RT20 contactors, 3-pole, 3 ... 18.5 kW

Options

Rated control supply voltages
(the 10th and 11th position of the order number must be changed)

Rated control supply voltage U_s	Contactor type	3RT20 1	3RT20 2	3RT23 1, 3RT25 1	3RT23 2, 3RT25 2
	Size	S00	S0	S00	S0

Sizes S00 ... S0

AC operation¹⁾

Solenoid coils for 50 Hz (exception: Size S00: 50 and 60 Hz²⁾)

24 V AC	B0	B0	B0	B0
42 V AC	D0	D0	D0	--
48 V AC	H0	H0	H0	--
110 V AC	F0	F0	F0	F0
230 V AC	P0	P0	P0	P0
400 V AC	V0	V0	V0	V0

Solenoid coils for 50 and 60 Hz²⁾

24 V AC	B0	C2	B0	C2
42 V AC	D0	D2	D0	D2
48 V AC	H0	H2	H0	H2
110 V AC	F0	G2	F0	G2
220 V AC	N2	N2	N2	N2
230 V AC	P0	L2	P0	L2
240 V AC	P2	P2	P2	P2

Solenoid coils (for USA and Canada³⁾)

50 Hz	60 Hz				
110 V AC	120 V AC	K6	K6	K6	K6
220 V AC	240 V AC	P6	P6	P6	P6

Solenoid coils (for Japan)

50/60 Hz ⁴⁾	60 Hz ⁵⁾				
100 V AC	110 V AC	G6	G6	G6	G6
200 V AC	220 V AC	N6	N6	N6	N6
400 V AC	440 V AC	R6	R6	R6	R6

DC operation¹⁾

12 V DC	A4	--	A4	--
24 V DC	B4	B4	B4	B4
42 V DC	D4	D4	D4	D4
48 V DC	W4	W4	W4	--
60 V DC	E4	E4	--	--
110 V DC	F4	F4	F4	F4
125 V DC	G4	G4	G4	G4
220 V DC	M4	M4	M4	M4
230 V DC	P4	P4	P4	--

Examples

AC operation	3RT20 23-1AP00	Contactor with screw terminals; with solenoid coil for 50 Hz for rated control supply voltage 230 V AC.
	3RT20 23-1AG20	Contactor with screw terminals; with solenoid coil for 50/60 Hz for rated control supply voltage 110 V AC.
DC operation	3RT20 25-2BB40	Contactor with spring-type terminals; for rated control supply voltage 24 V DC.
	3RT20 25-2BG40	Contactor with spring-type terminals; for rated control supply voltage 125 V DC.

Rated control supply voltage	Contactor type	--	3RT2. 2.-N
$U_{s \min} \dots U_{s \max}^{6)}$	Size	S00	S0

Size S0

UC operation (AC 45 to 70 Hz, DC)

21 ... 28 V AC/DC	--	B3
95 ... 130 V AC/DC	--	F3
200 ... 280 V AC/DC ⁷⁾	--	P3

1) For deviating coil voltages and coil operating ranges of sizes S00 and S0, the 24 V DC SITOP Power supply unit with wide range input (93 to 264 V AC; 30 to 264 V DC) can be used for coil excitation (see Chapter 11 "Transformers and Power Supplies" --> "SITOP 6EP Power Supplies").

2) Coil operating range
at 50 Hz: $0.8 \dots 1.1 \times U_s$
at 60 Hz: $0.85 \dots 1.1 \times U_s$.

3) Coil operating range
Size S00: at 50 Hz: $0.85 \dots 1.1 \times U_s$
at 60 Hz: $0.8 \dots 1.1 \times U_s$
Size S0: at 50 Hz and 60 Hz: $0.8 \dots 1.1 \times U_s$.

4) Coil operating range
Size S00: at 50/60 Hz: $0.85 \dots 1.1 \times U_s$
Size S0: at 50 Hz: $0.8 \dots 1.1 \times U_s$
at 60 Hz: $0.85 \dots 1.1 \times U_s$.

5) Coil operating range
at 60 Hz: $0.8 \dots 1.1 \times U_s$.

6) Coil operating range: $0.7 \times U_{s \min} \dots 1.3 \times U_{s \max}$.

7) At 280 V: upper limit = $1.1 \times U_s$.