

Thermal overload relays

T7DU, TA25DU, TA42DU

Ordering details



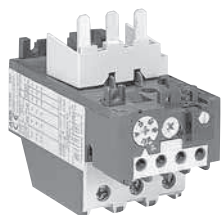
SST00298

T7DU



SB 7386

TA25DU



SB 7381

TA42DU

Type	Order code	Setting range		Max.fuse		Price / piece gL/gG	Pack- ing unit piece	Weight per piece kg
		A	... A	See page 20 aM A	L/gG A			

T7DU Thermal overload relays for mini contactors

T7DU 0.16	1SAZ 111 301 R0001	0.1 ... 0.16		0.5		1	0.070
T7DU 0.24	1SAZ 111 301 R0002	0.16 ... 0.24		1		1	0.070
T7DU 0.4	1SAZ 111 301 R0003	0.24 ... 0.4		2		1	0.070
T7DU 0.6	1SAZ 111 301 R0004	0.4 ... 0.6		2		1	0.070
T7DU 1.0	1SAZ 111 301 R0005	0.6 ... 1.0		4		1	0.070
T7DU 1.6	1SAZ 111 301 R0006	1.0 ... 1.6		6		1	0.070
T7DU 2.4	1SAZ 111 301 R0007	1.6 ... 2.4		6		1	0.070
T7DU 4.0	1SAZ 111 301 R0008	2.4 ... 4.0		10		1	0.070
T7DU 6.0	1SAZ 111 301 R0009	4.0 ... 6.0		10		1	0.070
T7DU 9.0	1SAZ 111 301 R0010	6.0 ... 9.0		10		1	0.070
T7DU12.0	1SAZ 111 301 R0011	9.0 ... 12.0		25		1	0.070

TA25DU for contactors A9 ... A40 and (T)AL9 ... (T)AL30

TA25DU 0.16	1SAZ 211 201 R1005	0.1 ... 0.16	–	0.5		1	0.150
TA25DU 0.25	1SAZ 211 201 R1009	0.16 ... 0.25	–	0.63		1	0.150
TA25DU 0.4	1SAZ 211 201 R1013	0.25 ... 0.4	–	1.25		1	0.150
TA25DU 0.63	1SAZ 211 201 R1017	0.4 ... 0.63	–	2		1	0.150
TA25DU 1.0	1SAZ 211 201 R1021	0.63 ... 1.0	2	4		1	0.150
TA25DU 1.4	1SAZ 211 201 R1023	1.0 ... 1.4	2	4		1	0.150
TA25DU 1.8	1SAZ 211 201 R1025	1.3 ... 1.8	4	6		1	0.150
TA25DU 2.4	1SAZ 211 201 R1028	1.7 ... 2.4	4	6		1	0.150
TA25DU 3.1	1SAZ 211 201 R1031	2.2 ... 3.1	6	10		1	0.150
TA25DU 4.0	1SAZ 211 201 R1033	2.8 ... 4.0	6	10		1	0.150
TA25DU 5.0	1SAZ 211 201 R1035	3.5 ... 5.0	10	16		1	0.150
TA25DU 6.5	1SAZ 211 201 R1038	4.5 ... 6.5	16	20		1	0.150
TA25DU 8.5	1SAZ 211 201 R1040	6.0 ... 8.5	20	25		1	0.150
TA25DU 11	1SAZ 211 201 R1043	7.5 ... 11.0	25	35		1	0.150
TA25DU 14	1SAZ 211 201 R1045	10.0 ... 14.0	25	35		1	0.150
TA25DU 19	1SAZ 211 201 R1047	13.0 ... 19.0	35	50		1	0.150
TA25DU 25	1SAZ 211 201 R1051	18.0 ... 25.0	50	63		1	0.150
TA25DU 32	1SAZ 211 201 R1053	24.0 ... 32.0 ⁽¹⁾	63	80		1	0.170

(1) With terminal block DX25: 1 x 16 mm²

TA25DU ... V1000 (EE x e) for contactors A9 ... A40, (T)AL 9 ... (T)AL30

TA25DU 0.16 V1000	1SAZ 211 301 R1005	0.1 ... 0.16	–	0.50		1	0.150
TA25DU 0.25 V1000	1SAZ 211 301 R1009	0.16 ... 0.25	–	0.63		1	0.150
TA25DU 0.4 V1000	1SAZ 211 301 R1013	0.25 ... 0.4	–	1.25		1	0.150
TA25DU 0.63 V1000	1SAZ 211 301 R1017	0.4 ... 0.63	–	2		1	0.150
TA25DU 1.0 V1000	1SAZ 211 301 R1021	0.63 ... 1.0	2	4		1	0.150
TA25DU 1.4 V1000	1SAZ 211 301 R1023	1.0 ... 1.4	2	4		1	0.150
TA25DU 1.8 V1000	1SAZ 211 301 R1025	1.3 ... 1.8	4	6		1	0.150
TA25DU 2.4 V1000	1SAZ 211 301 R1028	1.7 ... 2.4	4	6		1	0.150
TA25DU 3.1 V1000	1SAZ 211 301 R1031	2.2 ... 3.1	6	10		1	0.150
TA25DU 4.0 V1000	1SAZ 211 301 R1033	2.8 ... 4.0	6	10		1	0.150
TA25DU 5.0 V1000	1SAZ 211 301 R1035	3.5 ... 5.0	10	16		1	0.150
TA25DU 6.5 V1000	1SAZ 211 301 R1038	4.5 ... 6.5	16	20		1	0.150
TA25DU 8.5 V1000	1SAZ 211 301 R1040	6.0 ... 8.5	20	25		1	0.150
TA25DU 11 V1000	1SAZ 211 301 R1043	7.5 ... 11.0	25	35		1	0.150
TA25DU 14 V1000	1SAZ 211 301 R1045	10.0 ... 14.0	25	35		1	0.150
TA25DU 19 V1000	1SAZ 211 301 R1047	13.0 ... 19.0	35	50		1	0.150
TA25DU 25 V1000	1SAZ 211 301 R1051	18.0 ... 25.0	50	63		1	0.150
TA25DU 32 V1000	1SAZ 211 301 R1053	24.0 ... 32.0 ⁽¹⁾	63	80		1	0.170

(1) With terminal block DX25: 1 x 16 mm²

TA42DU for contactors A30, A40 and BC30

TA42DU 25	1SAZ 311 201 R1001	18.0 ... 25.0	50	63		1	0.330
TA42DU 32	1SAZ 311 201 R1002	22.0 ... 32.0	63	80		1	0.330
TA42DU 42	1SAZ 311 201 R1003	29.0 ... 42.0	80	100		1	0.330

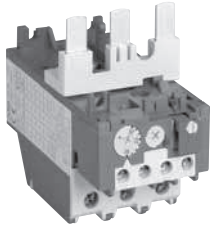
TA42DU ... V1000 (EE x e) for contactors A30, A40 and BC30

TA42DU 25 V1000	1SAZ 311 301 R1001	18.0 ... 25.0	50	63		1	0.330
TA42DU 32 V1000	1SAZ 311 301 R1002	22.0 ... 32.0	63	80		1	0.330
TA42DU 42 V1000	1SAZ 311 301 R1003	29.0 ... 42.0	80	100		1	0.330

Thermal overload relays

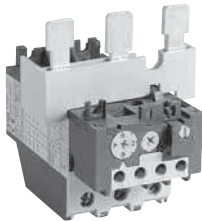
TA75DU, TA80DU, TA110DU

Ordering details



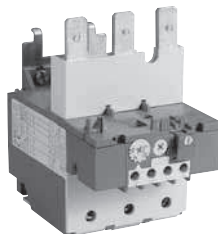
TA75DU

2CDC31001F003



TA80DU

SB 7399



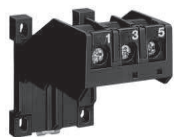
TA110DU

SE 7398



DX25

SST 014 94 R



DB25

SST 189 91 R



DB80

SST 183 91 R

Type	Order code	Setting range		Max.fuse		Price / piece gL/gG	Pack- ing unit piece	Weight per piece kg
		A	...	A	See page 21 aM A			

TA75DU for contactors A50 ... A75 and AE50 ... AE75

TA75DU 25	1SAZ 321 201 R1001	18 ... 25	50	63		1	0.330
TA75DU 32	1SAZ 321 201 R1002	22 ... 32	63	80		1	0.330
TA75DU 42	1SAZ 321 201 R1003	29 ... 42	80	100		1	0.330
TA75DU 52	1SAZ 321 201 R1004	36 ... 52	100	125		1	0.330
TA75DU 63	1SAZ 321 201 R1005	45 ... 63	125	160		1	0.330
TA75DU 80	1SAZ 321 201 R1006	60 ... 80	160	200		1	0.330

TA75DU ... V1000 (Ex e) for contactors A50 ... A75 and AE50 ... AE75

TA75DU 25 V1000	1SAZ 321 301 R1001	18 ... 25	50	63		1	0.330
TA75DU 32 V1000	1SAZ 321 301 R1002	22 ... 32	63	80		1	0.330
TA75DU 42 V1000	1SAZ 321 301 R1003	29 ... 42	80	100		1	0.330
TA75DU 52 V1000	1SAZ 321 301 R1004	36 ... 52	100	125		1	0.330
TA75DU 63 V1000	1SAZ 321 301 R1005	45 ... 63	125	160		1	0.330
TA75DU 80 V1000	1SAZ 321 301 R1006	60 ... 80	160	200		1	0.330

TA80DU for contactors A95, A110, AE95 and AE110

TA80DU 42	1SAZ 331 201 R1003	29 ... 42	80	100		1	0.360
TA80DU 52	1SAZ 331 201 R1004	36 ... 52	100	125		1	0.360
TA80DU 63	1SAZ 331 201 R1005	45 ... 63	125	160		1	0.360
TA80DU 80	1SAZ 331 201 R1006	60 ... 80	160	200		1	0.360

TA80DU ... V1000 (Ex e) for contactors A95, A110, AE95 and AE110

TA80DU 42 V1000	1SAZ 331 301 R1003	29 ... 42	80	100		1	0.360
TA80DU 52 V1000	1SAZ 331 301 R1004	36 ... 52	100	125		1	0.360
TA80DU 63 V1000	1SAZ 331 301 R1005	45 ... 63	125	160		1	0.360
TA80DU 80 V1000	1SAZ 331 301 R1006	60 ... 80	160	200		1	0.360

TA110DU for contactors A95, A110, AE95 and AE110

TA110DU 90	1SAZ 411 201 R1001	66 ... 90	160	200		1	0.750
TA110DU 110	1SAZ 411 201 R1002	80 ... 110	200	224		1	0.750


TA110DU ... V1000 (Ex e) for contactors A95, A110, AE95 and AE110

TA110DU 90 V1000	1SAZ 411 301 R1001	66 ... 90	160	200		1	0.750
TA110DU 110 V1000	1SAZ 411 301 R1002	80 ... 110	200	224		1	0.750

Terminal block 10 mm²

Type	Order code	for thermal overload relay	Price / piece	Packing unit piece	Weight/ piece kg
DX25	1SAZ 201 307 R0002	TA25DU 25 and DB25/25 A		1	0.030

Mounting kits for single set-ups

Type	Order code	for thermal overload relay	Mounting	Price / piece	Packing unit piece	Weight/ piece kg
DB25/25 A DB25/32 A	1SAZ 201 108 R0001 1SAZ 201 108 R0002	TA25DU ≤ 25 TA25DU 32	snapping onto		1 1	0.050 0.075
DB80	1SAZ 301 110 R0001	TA42DU TA75DU TA80DU	35 mm 		1	0.170

Thermal overload relays

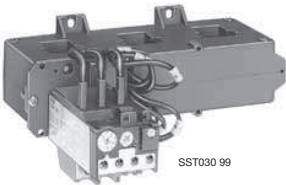
TA200DU, TA450DU

Ordering details



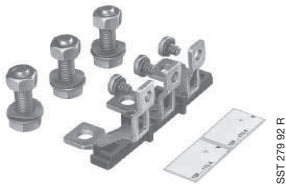
TA200DU

SST032 99



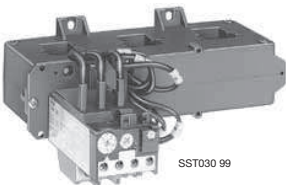
TA450DU

SST030 99



DB200

SST 279 92 R



TA450DU

SST030 99

Type	Order code A ... A	Setting range	Max.fuse See page 21		Price / piece gL/gG	Pack- ing unit piece	Weight per piece kg
			aM	L/gG			

Normal starting time class 10

TA200DU 90	1SAZ 421 201 R1001	66 ... 90	A 145, 185				0.750
TA200DU 110	1SAZ 421 201 R1002	80 ... 110	A 145, 185				0.750
TA200DU 135	1SAZ 421 201 R1003	100 ... 135	A 145, 185				0.750
TA200DU 150	1SAZ 421 201 R1004	110 ... 150	A 145, 185				0.750
TA200DU 175	1SAZ 421 201 R1005	130 ... 175	A 145, 185				0.750
TA200DU 200	1SAZ 421 201 R1006	150 ... 200	A 145, 185				0.750

Normal starting time class 10, V1000 (EExe)

TA200DU 110 V1000	1SAZ 421 301 R1002	80 ... 110	A 145, 185				0.750
TA200DU 135 V1000	1SAZ 421 301 R1003	100 ... 135	A 145, 185				0.750
TA200DU 150 V1000	1SAZ 421 301 R1004	110 ... 150	A 145, 185				0.750
TA200DU 175 V1000	1SAZ 421 301 R1005	130 ... 175	A 145, 185				0.750
TA200DU 200 V1000	1SAZ 421 301 R1006	150 ... 200	A 145, 185				0.750

Terminal shroud for TA200

LT200/A	1SAZ 401 901 R1001						0.070
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Normal starting time class 10

TA450DU 185	1SAZ 511 201 R1001	130 ... 185	A 210, 260, 300				1.500
TA450DU 235	1SAZ 511 201 R1002	165 ... 235	A 210, 260, 300				1.500
TA450DU 310	1SAZ 511 201 R1003	220 ... 310	A 210, 260, 300				1.500

Normal starting time class 10 A, V1000 (EExe)

TA450DU 185 V1000	1SAZ 511 301 R1001	130 ... 185	A 210, 260, 300				1.500
TA450DU 235 V1000	1SAZ 511 301 R1002	165 ... 235	A 210, 260, 300				1.500
TA450DU 310 V1000	1SAZ 511 301 R1003	220 ... 310	A 210, 260, 300				1.500

Mounting kits for single set-ups

Type	Order code	for thermal overload relay	Mounting	Price / piece	Packing unit piece	Weight/ piece kg
DB 200 *)	1SAZ 401 110 R0001	TA110DU TA200DU	Screw mounting		1	0.230

*) kein Berührungsschutz für DB 200 lieferbar

Thermal overload relays for heavy start / long starting time class 30

Type	Order code	Setting range	For contactor	Price / piece	Pack- ing unit piece	Weight per piece kg
		A ... A				

Long starting time class 30

TA450SU 60	1SAZ 611 201 R1005	40 ... 60	A 145 ... 300				1.500
TA450SU 80	1SAZ 611 201 R1006	55 ... 80	A 145 ... 300				1.500
TA450SU 105	1SAZ 611 201 R1007	70 ... 105	A 145 ... 300				1.500
TA450SU 140	1SAZ 611 201 R1008	95 ... 140	A 145 ... 300				1.500
TA450SU 185	1SAZ 611 201 R1001	130 ... 185	A 145 ... 300				1.500
TA450SU 235	1SAZ 611 201 R1002	165 ... 235	A 145 ... 300				1.500
TA450SU 310	1SAZ 611 201 R1003	220 ... 310	A 145 ... 300				1.500

Long starting time class 30, V1000 (EExe)

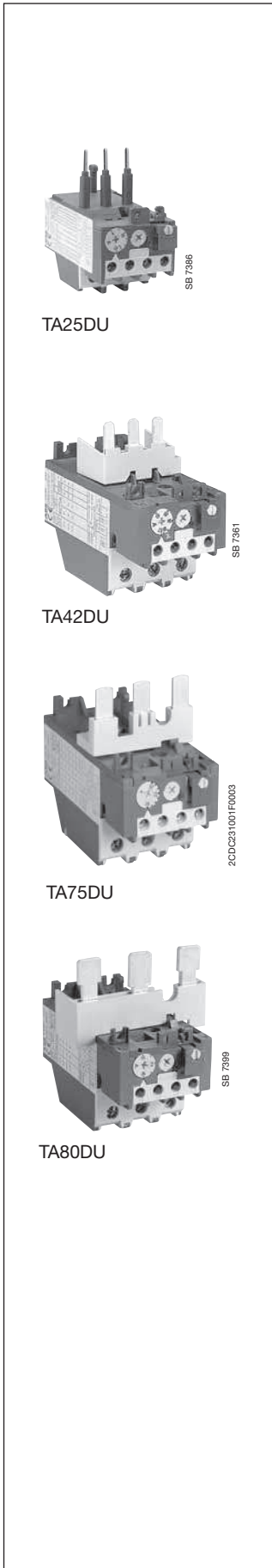
TA450SU 60 V1000	1SAZ 611 301 R1005	40 ... 60	A 145 ... 300				1.500
TA450SU 80 V1000	1SAZ 611 301 R1006	55 ... 80	A 145 ... 300				1.500
TA450SU 105 V1000	1SAZ 611 301 R1007	70 ... 105	A 145 ... 300				1.500
TA450SU 140 V1000	1SAZ 611 301 R1008	95 ... 140	A 145 ... 300				1.500
TA450SU 185 V1000	1SAZ 611 301 R1001	130 ... 185	A 145 ... 300				1.500
TA450SU 235 V1000	1SAZ 611 301 R1002	165 ... 235	A 145 ... 300				1.500
TA450SU 310 V1000	1SAZ 611 301 R1003	220 ... 310	A 145 ... 300				1.500

Mounting kits for TA450 overload relays

DT450 / A 185	1SAZ 501 901 R1001		A 145 ... 185		1	0.500
DT450 / A 300	1SAZ 501 902 R1001		A 260 ... 300		1	0.750

Thermal overload relays with trip class 20

Ordering data for the „New additional Assortment“



Ordering Details	Order code	Setting range	Max.fuse gL/gG	Packing unit piece	Weight/ piece kg
Type		A ... A	A		

TA25DU trip class 20 for contactors A9 ... A40 and (T) AL9 ... (T) AL30

TA25DU-1.8-20	1SAZ 211 401 R1025	1.3 ... 1.8	10	1	0.170
TA25DU-2.4-20	1SAZ 211 401 R1028	1.7 ... 2.4	16	1	0.170
TA25DU-3.1-20	1SAZ 211 401 R1031	2.2 ... 3.1	16	1	0.170
TA25DU-4.0-20	1SAZ 211 401 R1033	2.8 ... 4.0	20	1	0.170
TA25DU-5.0-20	1SAZ 211 401 R1035	3.5 ... 5.0	25	1	0.170
TA25DU-6.5-20	1SAZ 211 401 R1038	4.5 ... 6.5	25	1	0.170
TA25DU-8.5-20	1SAZ 211 401 R1040	6.0 ... 8.5	32	1	0.170
TA25DU-11-20	1SAZ 211 401 R1043	7.5 ... 11	40	1	0.170
TA25DU-14-20	1SAZ 211 401 R1045	10 ... 14	50	1	0.170
TA25DU-19-20	1SAZ 211 401 R1047	13 ... 19	63	1	0.170
TA25DU-25-20	1SAZ 211 401 R1051	18 ... 25	80	1	0.170
TA25DU-32-20 ⁽¹⁾	1SAZ 211 401 R1053	24 ... 32 ⁽¹⁾	100	1	0.190

(1) with terminal block DX25: 1x16mm²

TA42DU trip class 20 for contactors A30, A40 and (T) AL30, (T) AL40

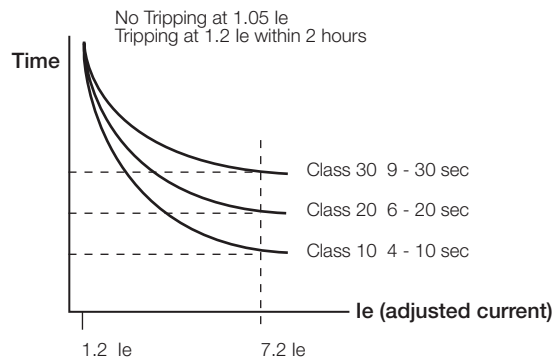
TA42DU-25-20	1SAZ 311 401 R1001	18 ... 25	100	1	0.370
TA42DU-32-20	1SAZ 311 401 R1002	22 ... 32	125	1	0.370
TA42DU-42-20	1SAZ 311 401 R1003	29 ... 42	160	1	0.370

TA75DU trip class 20 for contactors A50 ... A75 and AE50 ... AE75

TA75DU-25-20	1SAZ 321 401 R1001	18 ... 25	100	1	0.370
TA75DU-32-20	1SAZ 321 401 R1002	22 ... 32	125	1	0.370
TA75DU-42-20	1SAZ 321 401 R1003	29 ... 42	160	1	0.370
TA75DU-52-20	1SAZ 321 401 R1004	36 ... 52	200	1	0.370
TA75DU-63-20	1SAZ 321 401 R1005	45 ... 63	200	1	0.370
TA75DU-80-20	1SAZ 321 401 R1006	60 ... 80	250	1	0.370

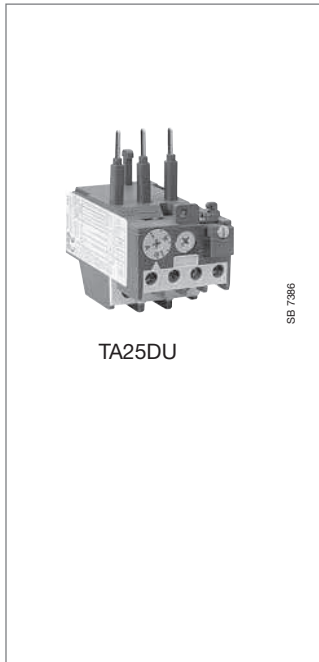
TA80DU trip class 20 for contactors A95, A110, AE 95 and AE110

TA80DU-42-20	1SAZ 331 401 R1003	29 ... 42	160	1	0.400
TA80DU-52-20	1SAZ 331 401 R1004	36 ... 52	200	1	0.400
TA80DU-63-20	1SAZ 331 401 R1005	45 ... 63	200	1	0.400
TA80DU-80-20	1SAZ 331 401 R1006	60 ... 80	250	1	0.400



Thermal overload relays T...

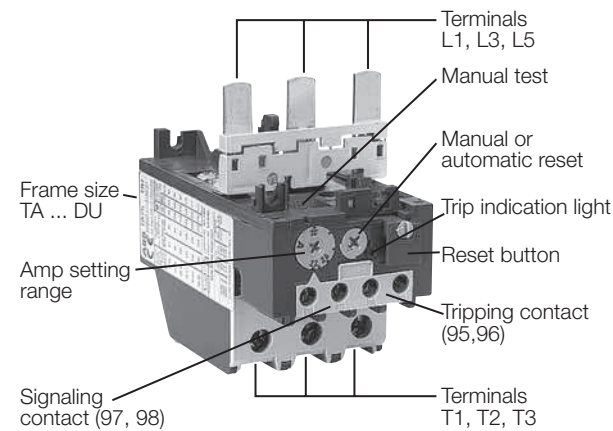
Technical data



Load rating of auxiliary contacts

Type	T7DU		TA25DU ...TA450DU/SU	
	NC 95 - 96	NO 97-98	NC 95 - 96	NO 97 - 98
Auxiliary switch				
Rated operating voltage U_e	V	500	500	
Rated thermal current I_{th}	A	6	10	6
Rated operating current I_e				
at AC 15 to 240 V	A	1.5	3	1.5
at AC 15 to 440 V	A	0.7	1.9	0.95
at AC 15 to 500 V	A	0.5	1	0.75
at DC 13 to 24 V	A	-	1.25	0.42
to 60 V	A	-	0.50	0.17
to 120 V	A	-	0.25	0.08
to 250 V	A	0.2	0.12	0.04
Maximum potential difference between the NO and NC contacts	AC V	500	500	
	DC V	440	440	
Short-circuit protection	gL/gG A	4	10	6
STOTZ circuit-breaker type:				
S271	A	K1	K3	K1
S281	A	K1	K3	K1

Function of the thermal overload relays



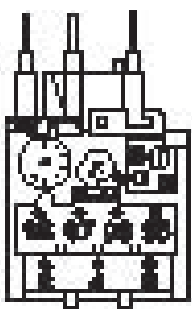
Press blue button	Contacts	Relay tripped		Relay not tripped	
		Manual	Automatic	Manual	Automatic
	NC 95-96 NO 97-98	open closed	open closed	closed open	closed open
Button R	NC 95-96 NO 97-98	Reset closes when Button's pressed	- -	- -	- -
Button R/O	NC 95-96 NO 97-98	Reset closes when Button's released	- -	- opens when Button's pressed closes when Button's released	- opens when Button's pressed closes when Button's released

Position of the connection terminals

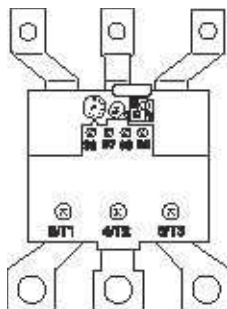
TA25DU, TA42DU,
TA75DU, TA80DU

TA200DU

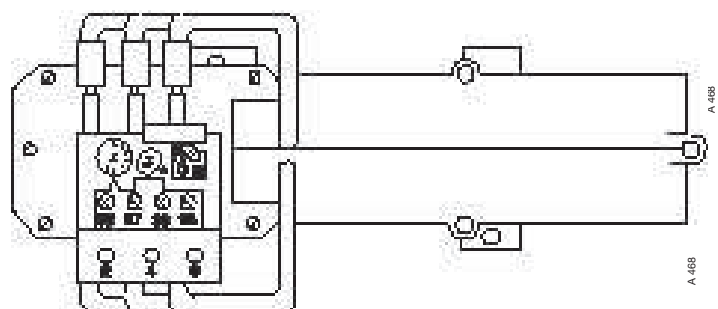
TA450DU/SU



A 471



A 467

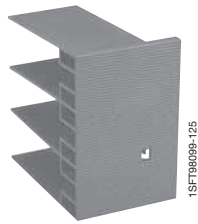


A 468

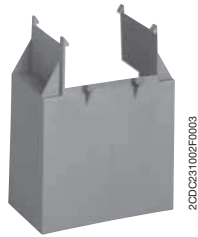
Thermal overload relays

Accessories

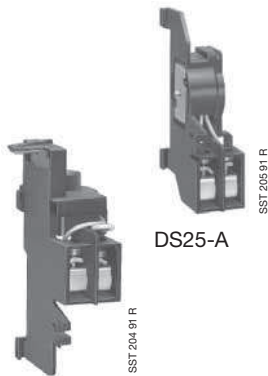
Ordering details



LTA185-AY



LT200/A



DS25-A

DR25-A

Type	Order code	Mounting onto:	Price / piece	Packing unit piece	Weight per piece kg
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Terminal shroud for TA200

LTA185-AY between A145/185 and TA200DU	1SFN 124 704 R1000	A 145, A 185		1	1.000
LT200/A Load Side TA200DU	1SAZ 401 901 R1001	A 145, A 185		1	0.070

Type	Order code	For relay/description	Price / piece	Packing unit piece	Weight per piece kg
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Remote tripping control

The coil serves to remotely trip the thermal overload relays TA25DU, T450/900DU/SU.

The coil is not approved for continuous operation. Pulse duration 0.2 ... 0.35 s.

DS25-A-24	1SAZ 201 501 R0001	24 V	} Operating-voltage U_c at 50/60 Hz	1	0.100
DS25-A-48	1SAZ 201 501 R0002	48 V		1	0.100
DS25-A-110	1SAZ 201 501 R0003	110 V		1	0.100
DS25-A-220/380	1SAZ 201 501 R0005	220/380 V		1	0.100
DS25-A-500	1SAZ 201 501 R0006	500 V		1	0.100

Remote reset coil

The coil serves to reset the thermal overload relays TA25DU, TA450DU/SU.

The overload relay must be set to „manual reset“ for this purpose.

The coil is not approved for continuous operation. Pulse duration 0.2 ... 0.35 s.

DR25-A-24	1SAZ 201 504 R0001	24 V	} Operating-voltage U_c at 50/60 Hz	1	0.100
DR25-A-48	1SAZ 201 504 R0002	48 V		1	0.100
DR25-A-110	1SAZ 201 504 R0003	110 V		1	0.100
DR25-A-220/380	1SAZ 201 504 R0005	220/380 V		1	0.100
DR25-A-500	1SAZ 201 504 R0006	500 V		1	0.100

Circuit diagrams

