3TF2 contactors, 3-pole, 2.2 ... 4 kW

Technical specifications

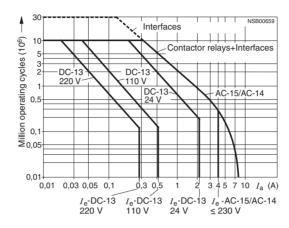
Contactors Type 3TF2

Endurance of the auxiliary contacts

The contact endurance for utilization category AC-12 or AC-15/AC-14 depends mainly on the breaking current. It is assumed that the operating mechanisms are switched randomly, i.e. not synchronized with the phase angle of the supply system. Legend:

 $I_a = Breaking current$

 $I_{\rm e}$ = Rated operational current



3TF2

Endurance of the main contacts

The characteristic curves show the contact endurance of the contactors when switching inductive AC loads (AC-3) depending on the breaking current and rated operational voltage. It is assumed that the operating mechanisms are switched randomly, i.e. not synchronized with the phase angle of the supply system.

The rated operational current $I_{\rm e}$ complies with utilization category AC-4 (breaking six times the rated operational current) and is intended for a contact endurance of at least 200 000 operating cycles. If a shorter endurance is sufficient, the rated operational current $I_{\rm e}/{\rm AC}$ -4 can be increased.

If the contacts are used for mixed operation, i.e. if normal switching (breaking the rated operational current according to utilization category AC-3) in combination with intermittent inching (breaking several times the rated operational current according to utilization category AC-4), the contact endurance can be calculated approximately from the following equation:

$$X = \frac{A}{1 + \frac{C}{100} \left(\frac{A}{B} - 1\right)}$$

Characters in the equation: X = Contact endurance for mixed operation in operating cycles A = Contact endurance for normal operation ($I_a = I_e$) in operating cycles

B = Contact endurance for inching $(I_a = \text{multiple} \text{ of } I_e)$ in operating cycles C = Inching operations as a percentage of total switching operations

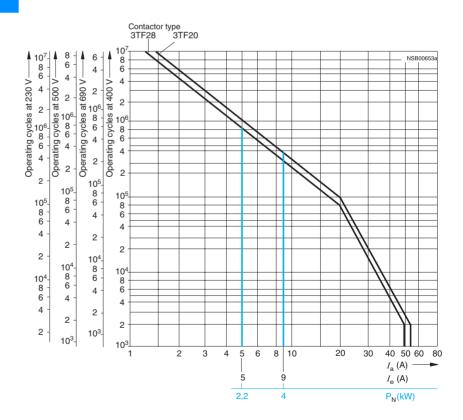


Diagram legend:

 $P_{\rm N}$ = Rated output power for squirrel-cage motors at 400 V

Ia= Breaking current

I_e= Rated operational current

3TF2 contactors, 3-pole, 2.2 ... 4 kW

The overload relay must not suffer any damage. Contact welding on the contactor is permissible, however, if the contacts can be easily separated.

6) A short-circuit current of $I_{\rm q} \le 6$ kA applies to type of coordination "2".

Cantastara				
Contactors Type			3TF20/3TF28	3TF22/3TF29
General data			.,	
Permissible mounting position	AC and DC operation		any	
Mechanical endurance	AC operation	Operat-	10 million	
incontained criteriane	DC operation	ing	30 million	
	Auxiliary contact block	cycles	10 million	
Rated insulation voltage U_i (pollution	n degree 3)		000	0001)
 Screw terminal Flat connector 6.3 mm x 0.8 mm 		V V	690 500	690 ¹⁾
Solder pin connection		V	500	
Rated impulse withstand voltage Uir	mn			
(pollution degree 3)	119			-2)
 Screw terminal Flat connector 6.3 mm x 0.8 mm 		kV kV	8 6	8 ²⁾
Solder pin connection		kV	6	
Safe isolation between coil and main (acc. to DIN VDE 0106 Part 101 and A		V	up to 300	
Mirror contacts	L			
A mirror contact is an auxiliary NC cor	ntact that cannot be closed		Yes. This applies to both the basic	Yes. Acc. to EN 60947-4-1
simultaneously with a NO main contact			unit as well as to between the basic	Appendix F SUVA
			unit and the mounted auxiliary switch block acc. to EN 60947-4-1,	
			Appendix F	
Permissible ambient temperature ³⁾	During operation	°C	-25 +55	
•	During storage	°C	-55 +80	
Degree of protection acc. to EN 6094	17-1 Appendix C		IP00 open	
			IP20 for screw terminal IP40 coil assembly	
Touch protection acc. to EN 50274			Finger-safe for screw terminal	-
Resistance to shock			Tinger care for colow terminal	
Without 3TX44 auxiliary switch block				
Rectangular pulse	AC operation	g/ms	8.3/5 and 5.2/10	_
ricotarigular pulse	DC operation	g/ms	11.3/5 and 9.2/10	
Sine pulse	AC operation	g/ms	13/5 and 8/10	
	DC operation	g/ms	17.4/5 and 12.9/10	
With 3TX44 auxiliary switch block				
Rectangular pulse	AC operation	g/ms	5/5 and 3.6/10	5/5 and 3.6/10
	DC operation	g/ms	9/5 and 6.9/10	9/5 and 7.3/10
Sine pulse	AC operation DC operation	g/ms g/ms	7.8/5 and 5.6/10 13.9/5 and 10.1/10	7.8/5 and 5.6/10 14/5 and 11/10
Conductor cross-sections	DO operation	9/1113	4)	14/0 4/14 1 1/10
Short-circuit protection for con	tactors without overload re	lavs		
Main circuit ⁵⁾	autoro manour overiodu re	ye		
• Fuse-links gL/gG				
NH 3NA, DIAZED 5SB, NEOZED 5SE	<u>:</u>			
- Acc. to IEC 60947-4/	Type of coordination "1":	A	25	
DIN VDE 0660, Part 2	Type of coordination "2" ⁶⁾ Weld-free	A A	10 10	
Miniature circuit-breaker with C-char		A	10	
Auxiliary circuit				
Short-circuit current $I_k \ge 1 \text{ kA}$				
• Fuse-links gL/gG DIAZED 5SB, NEOZED 5SE		Α	6	
1) Auxiliary contacts 500 V.			5) According to excerpt from IEC 609	47-4/DIN VDE 0660 Part 102
2) Auxiliary contacts 6 kV.			Type of coordination "1":	
3) Applies to 50/60 Hz coil:		Destruction of the contactor and the contactor and/or overload relay ca	e overload relay is permissible. The	
At 50 Hz, 1.1 x U _s , side-by-side mo			Type of coordination "2":	ii bo ispiaced ii liecessaly.
max. ambient temperature is +40 °	C.	The overload relay must not suffer	any damage. Contact welding on the	
1) Soo conductor cross soctions		contactor is permissible however	if the contacts can be easily separated.	

4) See conductor cross-sections.

Contactors Type			3TF2
Control			3112
Coil operating range ¹⁾			0.8 1.1 x <i>U</i> _s
· · · · · · · · · · · · · · · · · · ·	nagnetic coils (when coil is cold and	1 0 x // ₂)	0.0 1.1 × 0§
Standard version	gone cone (on con ic cona ana	1.0 % 08)	
AC operation, 50 Hz	Closing	VA	15
7.0 0001411011, 00 112	• p.f.	*/ (0.41
	• Closed	VA	6.8
A.O	• p.f.) /A	0.42
AC operation, 60 Hz	Closingp.f.	VA	14.4 0.36
	• Closed	VA	6.1
	• p.f.		0.46
AC operation, 50/60 Hz ¹⁾	 Closing 	VA	16.5/13.2
	p.f.Closed	VA	0.43/0.38 8.0/5.4
	• p.f.	V٨	0.48/0.42
For USA and Canada			
AC operation, 50 Hz	Closing	VA	14.6
,	• p.f.		0.38
	Closedp.f.	VA	6.5 0.40
AC operation, 60 Hz	• Closina	VA	14.4
AC operation, 60 mz	• p.f.	VA	0.30
	Closed	VA	6.0
	• p.f.		0.44
DC operation	Closing = Closed	W	3
Permissible residual current	t of the electronic circuit ²⁾ (for 0 sign AC operation	al) mA	≤ 3 × (230 V/U _s)
	DC operation	mA	$\leq 3 \times (230 \text{ V/U}_8)$ $\leq 1 \times (230 \text{ V/U}_8)$
Operating times at 0.8 1.1	x U _s ³⁾		
Total break time = Opening de	elay + Arcing time		
Values apply with coil in cold operating range	state and at operating temperature for	-	
 AC operation 	Closing delay	ms	5 19
Dead interval	Opening delay	ms	2 22 To use the 3TF2 AC-operated contactor in reversing an additional dead
Dead Interval			interval of 50 ms is required along with an NC contact interlock.
DC operation	Closing delay	ms	16 65
	Opening delay	ms	25
Arcing time		ms	10 15
Operating times at 1.0 x U_s^3)		
 AC operation 	Closing delay	ms	5 18
Dead interval	Opening delay	ms	3 21
Dead IIIleivai			To use the 3TF2 AC-operated contactor in reversing an additional dead interval of 50 ms is required along with an NC contact interlock.
DC operation	Closing delay	ms	19 31
Ç	Opening delay	ms	34
Arcing time		ms	10 15

- 1) Applies to 50/60 Hz coil: At 50 Hz, 1.1 x $U_{\rm S}$, side-by-side mounting and 100% ON period the max. ambient temperature is +40 °C.
- The 3TX4 490-1J additional load module is recommended for higher residual currents (see Accessories and Spare Parts).
- 3) The opening delay of the NO contact and the closing delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Contactors	Туре		3TF28 3TF29	3TF200, 3TF220	3TF203, 3TF206, 3TF207
Size 00					317207
Main circuit					
AC capacity					
Utilization category AC-1 Switching resistive loads					
Rated operational current I _e (for 40 °C)	up to 400/380 V 690/660 V	A A	18 18	18 18	18
Rated operational current $I_{\rm e}$ (for 55 °C)	400/380 V 690/660 V	A A	16 16	16 16	16
Rated output power of AC loads p.f. = 1	at 230/220 V 400/380 V 500 V 690/660 V	kW kW kW kW	6.0 10 13 17	6.0 10 13 17	6.0 10 13
Minimum conductor cross-section for loads with $I_{\rm e}$	323,233	mm ²	2.5	2.5	2.5
Jtilization category AC-2 and AC-3			2.0	2.0	2.0
Rated operational current I_{e}	up to 220 V 230 V 380 V	A A A	5.1 5.1 5.1	9.0 9.0 9.0	9.0 9.0 9.0
	400 V 500 V 660 V 690 V	A A A	5.1 4.8 4.8 4.8	8.4 6.5 5.2 5.2	8.4 6.5
Rated output power for motors with slip-ring or squirrel-cage rotors at 50 Hz and 60 Hz and	at 110 V 115 V	kW kW	0.7 0.7	1.2 1.2	1.2 1.2
	120 V 127 V 200 V 220 V	kW kW kW kW	0.7 0.8 1.2 1.3	1.3 1.4 2.2 2.4	1.3 1.4 2.2 2.4
	230 V 240 V 380 V	kW kW kW	1.4 1.5 2.2	2.5 2.6 4.0	2.5 2.6 4.0
	400 V 415 V 440 V	kW kW kW	2.2 2.5 2.5	4.0 4.0 4.0	4.0 4.0 4.0
	460 V 500 V 575 V	kW kW kW	2.7 2.9 3.2	4.0 4.0 4.0	4.0 4.0
	660 V 690 V	kW kW	3.8 4.0	4.0 4.0	
Utilization category AC-4					
(contact endurance approx. 200 000 operating cycles	s at $I_a = 6 \times I_e$)				
Rated operational current $I_{\rm e}$	up to 400 V 690 V	A A	1.9 1.4	2.6 1.8	2.6
Rated output power for motors with squirrel-cage rotol at 50 Hz and 60 Hz and	r at 110 V 115 V 120 V	kW kW kW	0.23 0.24 0.26	0.32 0.33 0.35	0.32 0.33 0.35
Max. permissible rated operational current $I_{\rm e}/{\rm AC-4} \cong I_{\rm e}/{\rm AC-3}$ up to 500 V, for reduced contact endurance and reduced operating frequency	127 V 200 V 220 V	kW kW kW	0.27 0.42 0.47	0.37 0.58 0.64	0.37 0.58 0.64
	230 V 240 V 380 V	kW kW kW	0.49 0.51 0.81	0.67 0.70 1.10	0.67 0.70 1.10
	400 V 415 V 440 V	kW kW kW	0.85 0.93 1.0	1.15 1.20 1.27	1.15 1.20 1.27
	460 V 500 V 575 V	kW kW kW	1.0 1.1 1.0	1.33 1.45 1.30	1.33 1.45
	660 V 690 V	kW kW	0.86 0.89	1.10 1.15	

Contactors		Туре		3TF28 3TF29	3TF200, 3TF220	3TF203, 3TF206,
Size 00				311 23	J I I ZZU	3TF206, 3TF207
Main circuit						
AC capacity						
Utilization category AC-5a Switching gas discharge la Per main conducting path at 230/220 V	amps					
Rated output power Per lamp		Rated operational current Per lamp (A)				
Uncorrected L 18 W		0.37	units	43		
L 36 W		0.43	units	37		
L 58 W		0.67	units	23		
Lead-lag circuit L 18 W		011	units	144		
L 36 W		0.21	units	76		
L 58 W		0.32	units	50		
Switching gas discharge la Per main conducting path at		ion, solid-state ballast				
Rated output power per lamp	Capacitance (µF)	Rated operational current per lamp (A)				
Parallel correction	4.5	0.44		00		
L 18 W L 36 W	4.5 4.5	0.11 0.21	units units	22 22		
L 58 W	7	0.31	units	14		
With solid-state ballast (sing		0.10	unito	63		
L 18 W L 36 W	6.8 6.8	0.10 0.18	units units	63 35		
L 58 W	10	0.27	units	23		
With solid-state ballast (two L 18 W		0.18	unita	35		
L 36 W	10 10	0.18	units units	18		
L 58 W	22	0.52	units	12		
Utilization category AC-5b Switching incandescent la Per main conducting path at	mps		kW	1.6		
Utilization category AC-6a						
Switching AC transformers						
Rated operational current I_e		at 400 V	٨	0.0	E 1	E 4
 For inrush current n = 20 For inrush current n = 30 		at 400 V at 400 V		2.9 1.9	5.1 3.3	5.1 3.3
Rated power P						
• For inrush current n = 20		up to 230/220 V	kVA	1.14	2.0	2.0
		400/380 V 500 V	kVA kVA	2 4.1	3.5 4.6	3.5 4.6
		690/660 V	kVA	5.4	6.0	4.0
• For inrush current n = 30		up to 230/220 V	kVA	0.74	1.3	1.3
		400/380 V 500 V	kVA kVA	1.3 2.8	2.3 3.1	2.3 3.1
		690/660 V	kVA	3.6	4.0	
For deviating inrush current as follows: $P = P_{\text{res}} \times (30/\text{x})$	factors x, the power	er must be recalculated				
as follows: $P_x = P_{n30} \times (30/x)$ Utilization category AC-6b				No switching capac	city	
		ed dielectric) AC capacitors		ownering capac	,	
Utilization category AC-7a						
Switching low inductive lo		• •	^	10	10	10
Rated operational current I_e	(10r 55 °C)	at 400/380 V 690/660 V	A A	16 16	16 16	16
Rated output power at 50 ar	nd 60 Hz	at 230/220 V 400/380 V	kW kW	6	6 10	6 10
Minimum conductor cross-s	ection for loads wit		mm ²	2.5	2.5	2.5
Utilization category AC-7b		···•e	111111	2.0	2.0	2.0
Switching motor loads in h		ces				
Rated operational current $I_{\rm e}$		up to 220 V	A	5.1	9.0	9.0
		230 V 380 V	A A	5.1 5.1	9.0 9.0	9.0 9.0
		400 V	Ä	5.1	8.4	8.4
Rated output power of moto	rs	at 110 V	kW	0.68	1.2	1.2
at 50 Hz and 60 Hz and		220 V	kW	1.3	2.4	2.4
		230 V 240 V	kW kW	1.4 1.5	2.5 2.6	2.5 2.6
		240 V 380 V	kW	2.2	4.0	4.0
		400 V	kW	2.4	4.0	4.0

Contactors	Туре		3TF28 3TF29	3TF200, 3TF220	3TF203, 3TF206, 3TF207
Size 00				•	011 20 7
Main circuit					
Load rating with DC					
Utilization category DC-1 Switching resistive loads (contact endurance 0.1 x 106 operating cycles; Rated operational current $I_{\rm e}$ (for 55 °C)	<i>L/R</i> ≤ 1 ms)				
-	up to 24 V	٨	10	16	16
1 current path	up to 24 V 60 V 110 V 220/240 V	A A A	1.5 0.6	6 2 1	6 2 1
• 2 current paths in series	up to 24 V 60 V 110 V 220/240 V	A A A	10 10 4 1.5	16 16 6 2	16 16 6 2
• 3 current paths in series	up to 24 V 60 V 110 V 220/240 V	A A A	10 10 10 4	16 16 16 6	16 16 16 6
Utilization category DC-3 and DC-5					
Shunt-wound and series-wound motors (L/R:	(8m ci 2				
Rated operational current I_e (for 55 °C)	to 041/	٨	4	6	6
1 current path	up to 24 V 60 V 110 V	A A A	4 1.8 0.3	3 0.5	3 0.5
• 2 current paths in series	220/240 V up to 24 V 60 V	A A A	 6 3	0.1 10 5	0.1 10 5
	110 V 220/240 V	A A	1.5 0.3	2 0.5	2 0.5
3 current paths in series	up to 24 V 60 V 110 V	A A A	10 10 10	16 16 16	16 16 16
Thermal load consoity	220/240 V	Α	1.5	2	2
Thermal load capacity	10 s current for I _o /AC-3	A W	0.3		
Power loss per conducting path	IOI I _e /AC-3	VV	0.3		
Operating frequency Operating frequency z in operating cycles/hou	,				
		h ⁻¹	10000		
 Contactors without overload relays Dependence of the operating frequency z'on 	No-load operating frequency AC-1	h ⁻¹	10000		
the operational current I' and operational voltage U' :	AC-2	h ⁻¹	500		
$z' = z \times (I_{\Theta}/I') \times (400 \text{ V/U'})^{1.5} \text{ 1/h}$	AC-3	h ⁻¹	1000		
Contactors with overload relays (mean value)		h ⁻¹	15		
Conductor cross-sections	Market and a Market and a				
Screw terminals	Main and auxiliary conductors Solid	mm^2	2 x (0.5 2.5), 1 x ² 2 x (20 14) AWG,		
	Finely stranded with end sleeve	mm^2	2 x (0.5 1.5), 1 x 2.5	1 X 12 / W G	
Described tightering to	Pin-end connector (DIN 46231) Terminal screw	mm ²	1 x 1 2.5 M3		
Prescribed tightening torque for terminal screws		Nm	0.8 1.3 (7 11 lb.in)		
Flat connector When using a quick-connect terminal Finely stranded	6.3 1 6.3 2.5	mm ² mm ²	0.5 1 1 2.5		
Solder pin connection	5.5 2.0		Only for printed circ	uit hoards	

Size 00 Stand of the 31F20 contactors	Contactors	Туре			3TF200	3TF203, 3TF206, 3TF207
Rate According Accoding According According According According According	Size 00					011 20 7
Maximum horespower ratings Maximum horesp		contactors				
Maximum horsepower ratings (@ and 9 approved values) Reted output power for induction motors with 60 Hz	Rated insulation voltage <i>U</i> _i			VAC		
Manual provided values Table Manual Provided Manual Provide	· · · · · · · · · · · · · · · · · · ·		Open and enclosed	Α	16	16 (10 for solder pin connection)
1-phase al 115 V bp 0.5 1 1 200 V bp 1 1 1 1 200 V ch 1 1 200 V ch 1 1 200 V ch	(@ and @ approved values)					
200			=			
Agricultural Superstrong Continuous the manufacturent I_/DC-15/AC-14 Continuous the manufacturent I_/DC-12 Continuous the manufacturent I_/DC-13 Continuous	1-p	hase				1
Section Sect			230 V	hp		
200 V hp 3						
230 V high 3 3 3 1 for 3TF206 A 400/575 V high 5 Contactors Type Settling range 300 / FEB 8 10 A	3-р	hase				 3 (1 for 3TF20 -6)
Overload relays Type/ Setting range SUA7/EB 8 10 A Contactors Size 00 Type 3TF2 Size 00 Bated data of the auxiliary contacts acc. to IEEG 6987-5/10IN VDE 0660 Part 200 6800 Rated insulation voltage U (pollution degree 3) V 6800 Continuous thermal current I / a = Rated operational current I / AC-15 / AC-14 A 10 For rated operational voltage U = 1/10 / AC-15 / AC-14 4 4 For rated operational voltage U = 1/10 / AC-15 / AC-14 4 4 220 ∨ A = 1/25 ∨ A =			230 V		3	
Contactors Type 3TF2 Size 100 Size				hp		
Rated data of the auxiliary contacts acc. to EC 60947-5-1/DIN VDE 0660 Part 200	Overload relays		Type/ Setting range		3UA7/EB 8 10 A	
Rated data of the auxiliary contacts acc. to EC 60947-5-1/DIN VDE 0660 Part 200		Туре			3TF2	
(collution degree 3) Continuous themal current I₁□ = Rated operational current I₂AC-15/AC-14 For rated operational voltage U₀ 24 ∨ A 4 110 ∨ A 4 125 ∨ A 4 230 ∨ A 4 230 ∨ A 4 230 ∨ A 3 300 ∨ A 3 500 ∨ A 2 600 ∨ A 1 699 ∨ A 1 699 ∨ A 1 700 ∨ A 1		cc. to				
Continuous thermal current I _B = A 10	Rated insulation voltage <i>U</i> _i (pollution degree 3)			V	690	
Rated operational current I _e /AC-15/AC-14	Continuous thermal current I_{th} = Rated operational current I_e /AC-12			Α	10	
For rated operational voltage U _e 24 ∨ A 4 110 ∨ A 4 4 125 ∨ A	AC load Rated operational current I_/AC-15/AC	C-14				
125 V A	For rated operational voltage $U_{\rm e}$		24 V	Α		
220 V A 4 4 230 V A 4 3 380 V A 3 3 400 V A 2 500 V A 1 690						
230 V A 3 3 3 3 3 3 3 3 3 3						
A00 V A 3 500 V A 2 660 V A 1			230 V	Α	4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
G60 V A 1						
DC load Rated operational current I_e /DC-12 For rated operational voltage U_e $ \begin{array}{ccccccccccccccccccccccccccccccccccc$			660 V	Α	1	
Rated operational current I_{θ} /DC-12 For rated operational voltage U_{θ} $ \begin{array}{ccccccccccccccccccccccccccccccccccc$			690 V	Α	1	
For rated operational voltage \$U_0\$						
48 \			24 V	Α	4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			48 V	Α	2.2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
Rated operational current I_e /DC-13 For rated operational voltage U_e 24 ∨ A 2.1 48 ∨ A 1.1 110 ∨ A 0.52 125 ∨ A 0.52 220 ∨ A 0.27 440 ∨ A 600 ∨ A ②, ③ and ¬\ rated data of the auxiliary contacts Rated voltage, max. Auxiliary switch blocks, max. VAC 600 Switching capacity A 600, Q 300						
For rated operational voltage $U_{\rm e}$ $ \begin{array}{c} 24 \ {\rm V} & {\rm A} & 2.1 \\ 48 \ {\rm V} & {\rm A} & 1.1 \\ 110 \ {\rm V} & {\rm A} & 0.52 \\ 220 \ {\rm V} & {\rm A} & 0.52 \\ 220 \ {\rm V} & {\rm A} & 0.52 \\ 220 \ {\rm V} & {\rm A} & 0.27 \\ 440 \ {\rm V} & {\rm A} & \\ 600 \ {\rm V} & {\rm A} & \\ \hline $			440 V	Α		
For rated operational voltage U_0	Poted energtional assument / /DC 40		600 V	А		
48 V A 1.1 110 V A 0.52 125 V A 0.52 220 V A 0.27 440 V A 600 V A €, © and ₹\(\) rated data of the auxiliary contacts Rated voltage, max. VAC 600 Auxiliary switch blocks, max. VAC 300 Switching capacity A 600, Q 300			24.1/	۸	2.1	
110 V A 0.52 125 V A 0.52 220 V A 0.27 440 V A 600 V A	i oi rated operational voltage $U_{\rm e}$					
220 V A 0.27 440 V A 600 V A 600 V A 600 V A 600 V A 600 V A 600 V A 600 V A 600 V			110 V	Α	0.52	
440 V A 600 V A €, © and ₹\(\) rated data of the auxiliary contacts Rated voltage, max. VAC 600 Auxiliary switch blocks, max. VAC 300 Switching capacity A 600, Q 300						
©, © and ₹\ rated data of the auxiliary contacts Rated voltage, max. VAC 600 Auxiliary switch blocks, max. VAC 300 Switching capacity A 600, Q 300			440 V	Α		
Rated voltage, max. V AC 600 Auxiliary switch blocks, max. V AC 300 Switching capacity A 600, Q 300	@ @ and El rated data of the out	viliary contact		Α		
Auxiliary switch blocks, max. V AC 300 Switching capacity A 600, Q 300		Amary contact	5	V A C	600	
Switching capacity A 600, Q 300	• •					
				v /10		
	Uninterrupted current at 240 V AC			Α	10	