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3120-...-..T1-.. one and two pole

Data Sheet **382.073.468** sheet 1 of 37

Replacing data sheet dated 382.073.468 24. Oct. 1997

ŗ	paymen	t of da	mages	s. All rights reserved in the event of the grant of a patent, utility model or egistration. Protection mark according to DIN 34.		l		effe	ectiveness the	ight to n	nake changes in	n these specific	ations w
-	h 18 056	g 17 866	Index ÄM	Insulation resistance Minimum load (main	Dielectric strength (IEC 664 and 664A) operating area (reinforced insulation, sheet 23) mounting area (sheet 23) pole / pole (2-pole)	Insulation coordination (IEC 664 and 664A)	Typical electrical opera Voltage drop in V at 1 I _N	Creepage resistance Method of operation Mode of tripping	Effect of the archaracteristics	Reference	Current ratings	Max.voltage rating Rated insulation volt Current rating range	Technical data
	32	1-37	Sheet	Insulation resistance Minimum load (main circuit)	strength (IE area (reinfo area (sheei	coordinatic	Typical electrical operational values Voltage drop in V at 1 I _N	resistance operation ipping	Effect of the ambient temperature on the tripping characteristics	Reference ambient temperature	tings	Max.voltage rating Rated insulation voltage Current rating range	data
╙	13.12.00	26.06.00	Date	circuit)	EC 664 ar orced insu t 23)	on (IEC 66	oerationa 1 I _N		temperat	emperatur		age	
	K.Go	K.Go	Name In		nd 664, Ilation,	34 and	l valu		ure on	Φ			
			Index ÄM		A) sheet 23)	664A)	Se		the trippir				
			Sheet						DG .				
			Date	> 100 MΩ (DC 500 V) DC 10 V / 100 mA	<u>ma</u> 200 200	Rated impulse withstand voltage / Pollution degree max EN 60 934 4kV / 3 2.5KV /2		Factor PTI 400 S-type TO / positively trip free	Temperature (°C) Factor Temperature (°C)	-30°C +60°C (T60)	0.1; 0 1.5; 2 7.0; 8	AC 240V / DC 50 V, AC 415V AC 415 V 0.1 20A 1 and 2 pole	to EN 60 934
L			Name	Ω (DC // 100	<u>max</u> . 4000 V 2000 V	npulse III: 4	0.1 0.2 9.4 4.8 2.0 2.5 0.6 0.2 9.0 10.0 0.1 0.13	sitively	ature (+60°C	8.0,	// DC V 0A	934
				500 V mA	te	withsta	0.2 0.3 4.8 3.6 2.5 3.0 0.2 0.18 10.0 12.0 0.13 0.11	trip fre	Ŏ Ŏ) (T60)	0.3; 2.5; 10.0;	50 V, <i>i</i> 1 and	
					st volta	and vol	0.4 22 3.5 8 0.2 0 14.0 1 0.11	Φ 			0.4; 3.0; 12.0;	50 V, AC 415 1 and 2 pole	
					test voltage, AC <u>EN 60 934</u> 3000 V 1500 V 1500 V	tage / F	0.5 2.2 4.0 017 15.0 0.12	1.0	-30 0.80 +23		0.5; 3.5; 14.0;	<	
				•	< < < 934	ollution	0.6 0.8 1.8 1.8 4.5 5.0 0.2 0.16 16.0 18.0 0.12 0.17	1.03	-20 0.84 +30		0.6; 4.0; 15.0;		
						degree EN 60 9 2.5KV/	0.8 1.0 1.8 0.9 5.0 6.0 0.16 0.13 18.0 20.0 0.12 0.11	1.08	-10 0.88		0.8; 4.5; 16.0:		
						934	1.2 1.0 7.0 7.0 3 0.12	1.14	0.90 .		1.0; 5.0; 18.0;		
							1.5 0.7 8.0 0.13	1.23	+10 0.94 +60		1.2; 6.0; 20A		
I													

aveness the right to make char	iges in these specifications without th	otice is reserved.
	Behaviour at rated current (EN 60 934	聖皇極
	30 93.	

3120-...-..T1-.. one and two pole

> Data Sheet **382.073.468** sheet 2 of 37

ornamental de	sign r	egistration. Protection mark according to DIN 34.			·			· .
g	Index	Operation on OFF	The curbut at le	Rated c (EN 60	Rated: (EN 60	Behavi (EN 60		Behavic
17 866	ÄΜ	ing force	rent rating ast 15A.	onditional 934, PC 1	short-circ 934, test	or at rate 934, test		our at rate
26.06.00	Date	Typical mechanical values Operating force ON OFF Operating force with X3120-U ON OFF	The current rating of the back-up fuse to IEC 269 (DIN VDE 0636) shall be four times the current rating of the curcuit breaker, but at least 15A.	Rated conditional short-circuit current Inc (EN 60 934, PC 1 / UL 1077, § 21)	Rated short-circuit capacity l _{en} (EN 60 934, test sequence E)	Behavior at rated switching capacity (40 cycles) (EN 60 934, test sequence D)		Behaviour at rated current (EN 60 934, test sequence C)
K.Go	Name	- γ	ck-up fu	t current § 21)	E)	capacit D)		N 60 934
	Index		se to IE(I _{nc}		у (40 су		, test sec
	ÄΜ		C 269 (DI			cles)		luence C)
	Date	8 23	N VDE 06	1 and 2 2 pole 1 and 2	1 and 2 1 pole 2 pole 1 and 2 1 pole 2 pole 1 pole 2 pole	AC; 6 0.1 0.1	2 pole 2 pole	1 pole
	Name	700 rocker 5 23 v v v v v v v v v v v v v v v v v v	36) shall t	1 and 2 pole 2 pole 1 and 2 pole	1 and 2 pole 1 pole 2 pole 1 and 2 pole 1 pole 2 pole 1 pole 2 pole 2 pole	AC; 6 I _N power factor 0.6 0.1 20A, 1 pole / AC 240 0.1 20A, 2 pole / AC 240 0.1 20A, 2 pole / AC 415	50 000	mechanical 50 000
		push button 18 N 6 N 29 N 9 N	oe four ti	0.116 A 18 20 A 0.1 20 A	N N N N _ N N _	factor 0. ble / AC ble / AC ble / AC		——————————————————————————————————————
		ton	imes the c	IN 16 A 20 A 20 A	0.1 2A 2.520 A 2.520 A 0.1 2A 0.1 2A 2.5 10A 2.5 20 A 2.5 20 A		12 - 16A, DC 28V, L/H = 0 ms > 16A, DC 28V, L/H = 0 ms 0.1 - 16A, AC 240, cosφ 0.95 0.1 - 16A, DC, L/H= 0 ms > 16A, AC 240, cosφ 0.95 > 16A, AC 240, cosφ 0.95 > 16A, DC, L/H = 0 ms 0.1 - 16A, AC 415, cosφ 0.95	Operating cycles al electrical, 1 l _N 0.1 - 16A, AC 240, cosφ 0.95 > 16A, AC 240, cosφ 0.95 0.1 - 10A, DC, L/R= 0 ms
			current rat	U _N AC 240 V AC 125 V DC 50 V		DC; 4 l _N ti 0.1 10A 0.1 20A 0.1 20A	28V, L/H = 8V, L/H = 6	electrical, 1 l _N electrical, 1 l _N , AC 240, cosp C 240, cosp 0 C 240, cosp 0
			ling of th	5 V 35 2 35	U _N AC 240 V AC 240 V AC 240 V DC 50 V DC 50 V DC 50 V DC 28 V DC 28 V	I _{N,} time cons 10A, 1 pole 20A, 2 pole 20A, 1 pole	{ = 0 ms 0 ms 0 ms γ 0.95 ms 0.95 γ 0.95	φ 0.95 30 30 30 30 30 30 30
			e curcuit b	Inc 3500A 3500A 200A	10 × l 200 A 200 A 200 A 200 A 300 A 300 A	DC; 4 I _N time constant 2.5 ms 0.1 10A, 1 pole DC 50V 0.1 20A, 2 pole DC 50V 0.1 20A, 1 pole DC 28V	10,000 50,000 50,000 10,000 10,000	30,000
			oreaker,			<u> </u> 6		

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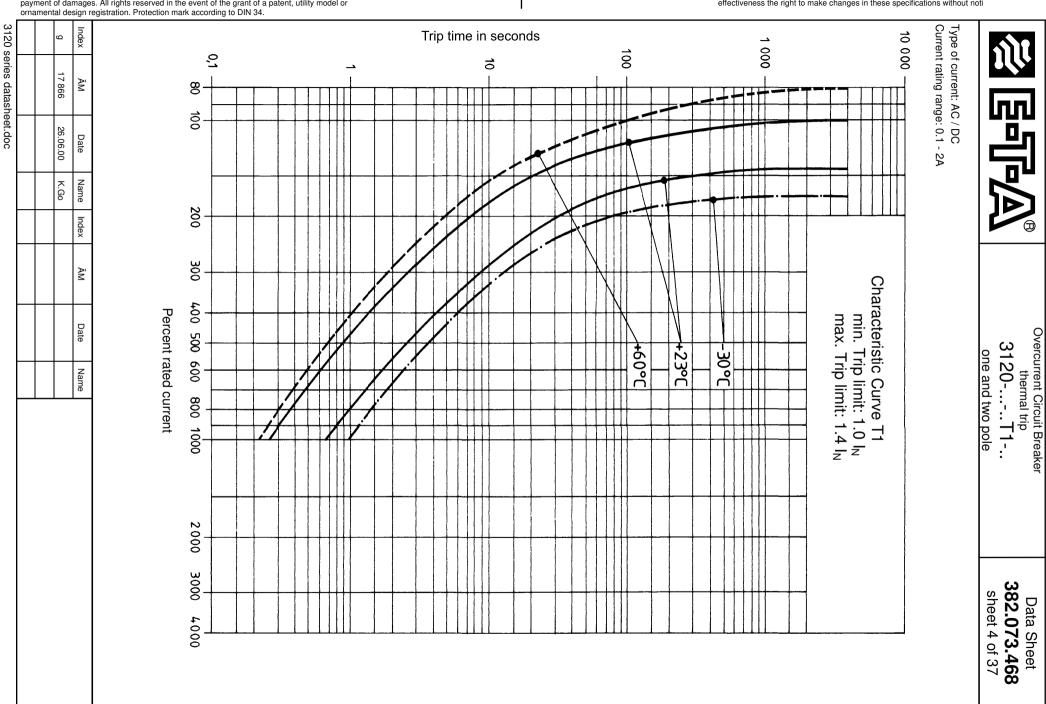
Overcurrent Circuit Breaker thermal trip

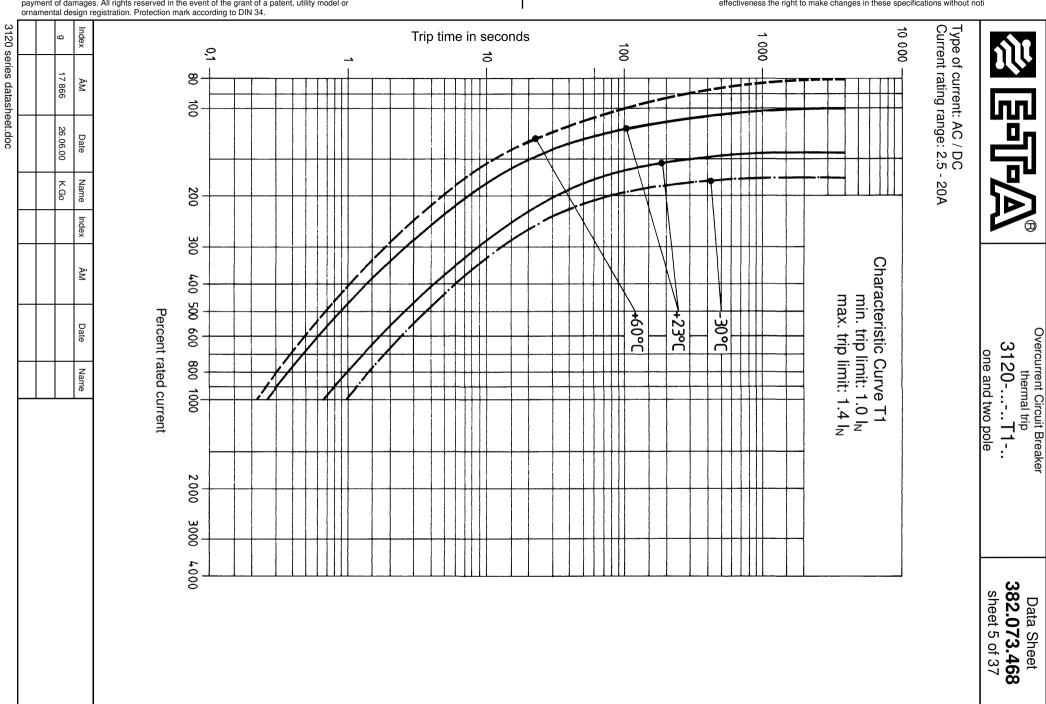
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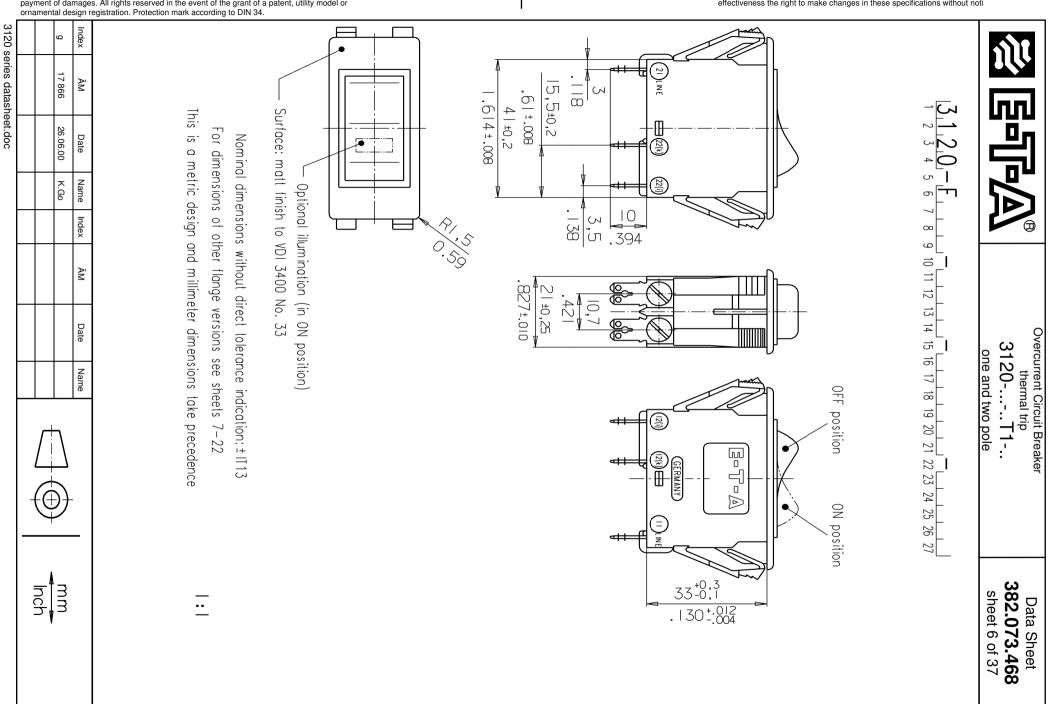
ornamental design registration. Protection mark according to DIN 34. Note: Humidity to DIN IEC 68-2-3, test Ca Corrosion to DIN IEC 68-2-11, test Ka Shock Environmental tests (typical values)
Vibration (sinusoidal)
to DIN IEC 68-2-6, Mass operating area to DIN IEC 68-2-27, test Ea Index Approval logos Temperature limits terminal area Degree of protection (IEC 529 / DIN 40 050) test Fc, 10 frequency cycles / axis Terminal screws Blade terminals P70 Mounting values g 17 866 Dimensions
Rocker / button variants
Flange dimensions
Connection variants and ÄÄ Order numbering code internal connetion diagram Installation Time / current characteristic curve 26.06.00 Date Name <u>ჯ</u>.ია Index Ä Date see sheets see sheets see sheets see sheets approx. 27 g approx. 31 g ⊽⊽ 96 80 N max. insertion 80 N max. withdrawal see sheet see sheets see marking instructions 240 hours 0.55 N max. tightening torque 30 g (11ms) 200 N max. insertion 30° C ...+ 60° 0 40 (IP 54 with splash cover) 3120-...-..T1-.. hours at 5% salt mist .61 mm (10 one and two pole on duty Name <u>a</u> 7 / 8 9 - 26 27 28 29 - 37 4 / 5 6 95% RH, 40°C О 1 pole 2 pole 57 Hz), 8g (57 - 500 Hz) 40° storage ° C ...+ 80° C 382.073.468 sheet 3 of 37

3120 series

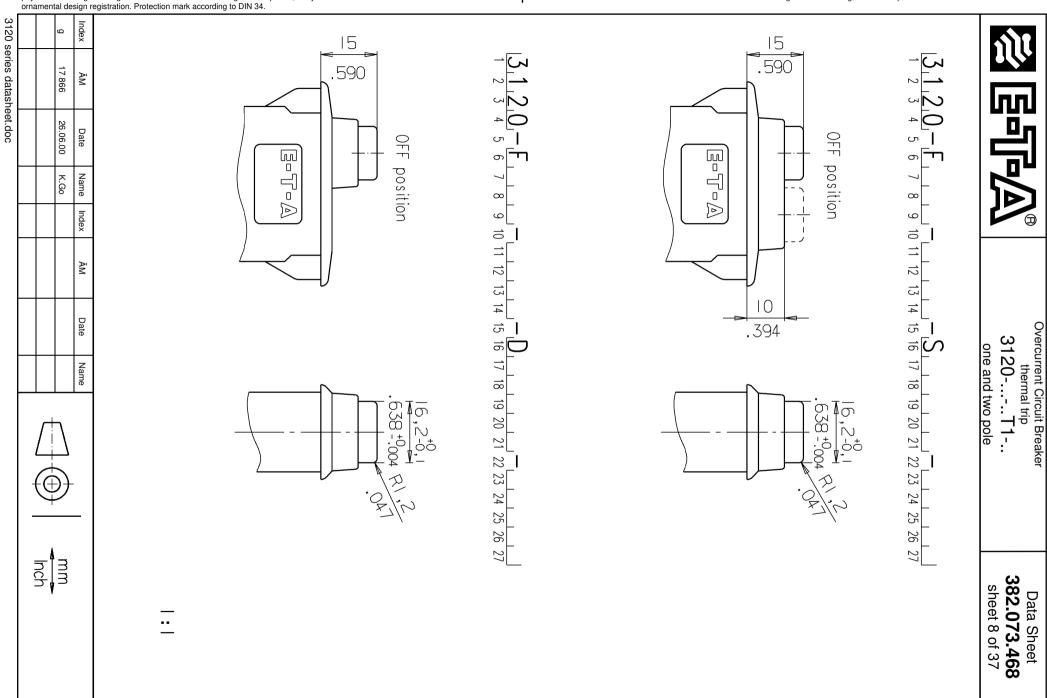
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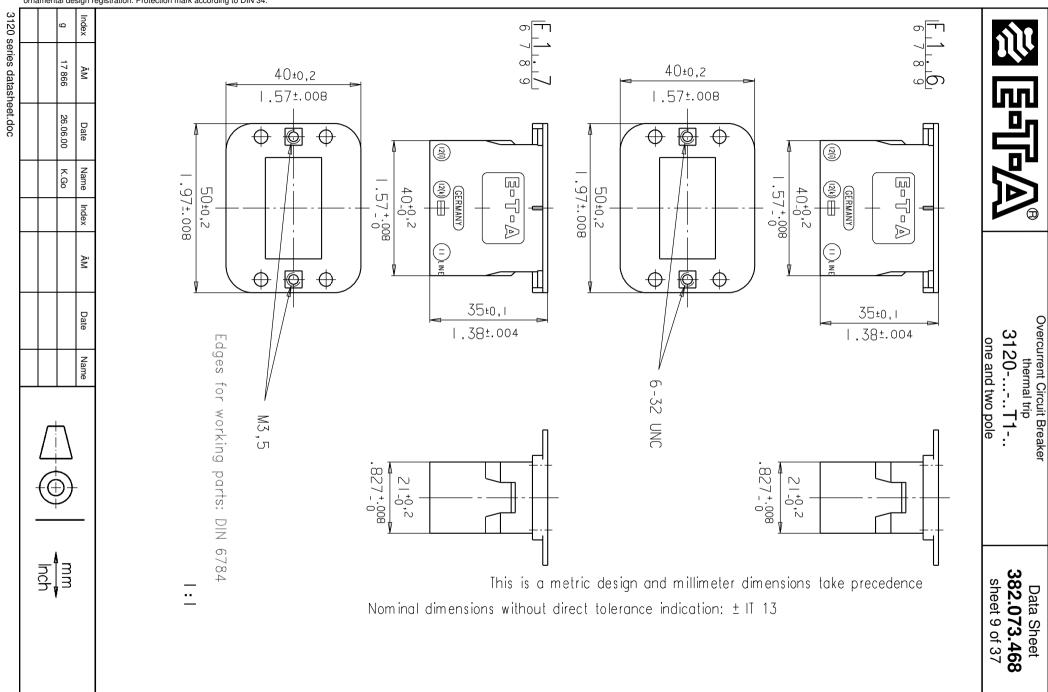


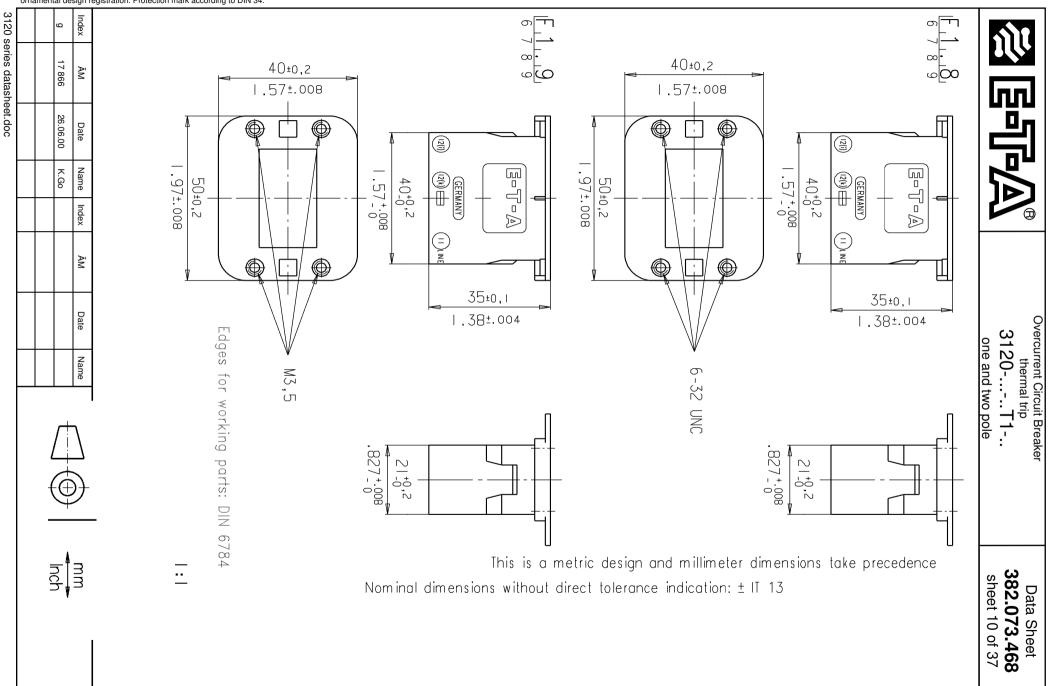


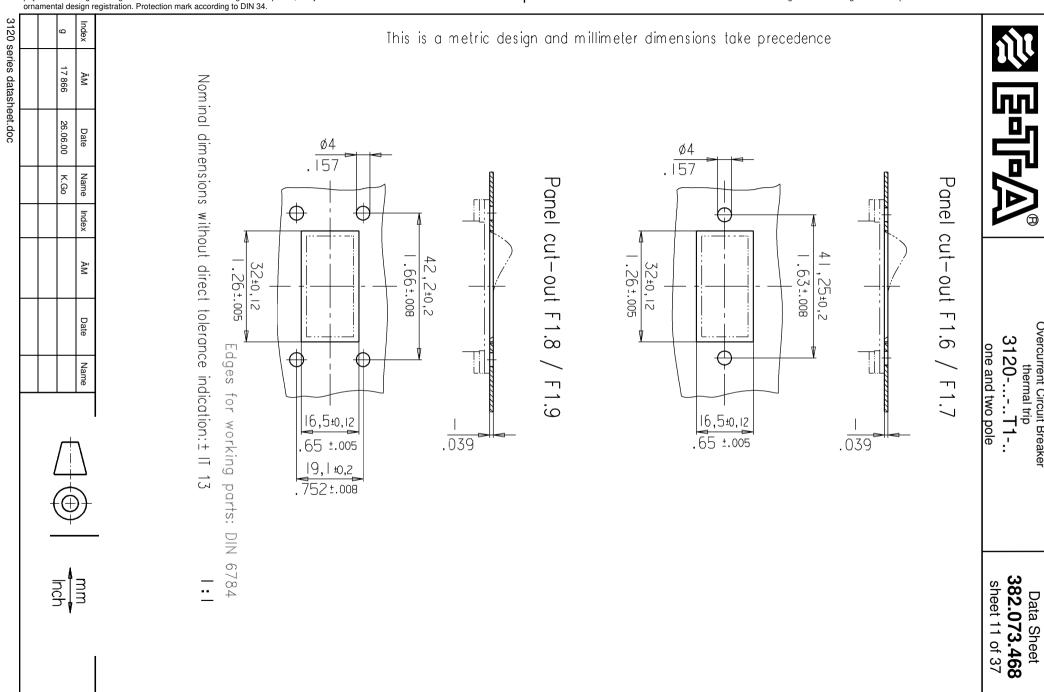


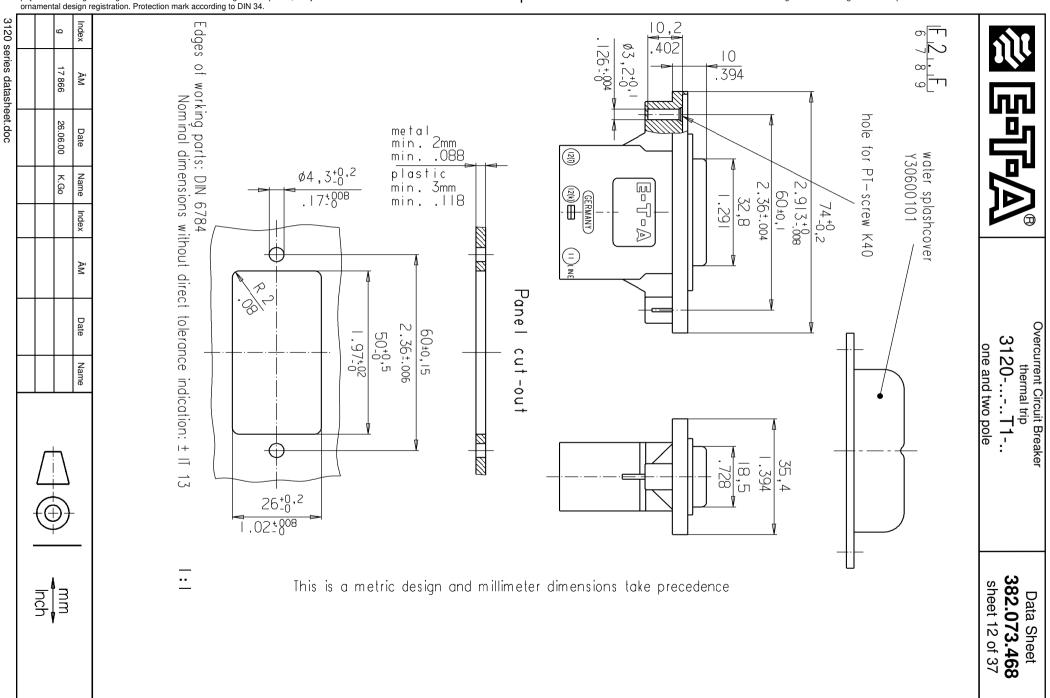
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<u>-</u>		Date	∃. — —	7,6,0	11 12 13		1 12 13	P
-		Name	me + e	8,9	3 14 15	.276		Overcurrent Circuit Breaker thermal trip 3120T1 one and two pole
		Ф	┪		A 16 17		16 17 18 16 17 18	rcurrent Circuit Breathermal trip \$120T1 one and two pole
			dimensions		18 19 2	<u> </u>	3 19 20 3 19 20 3 19 20	Breaker '1
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			-+ Ω λ Φ		23 24		23 24 2	
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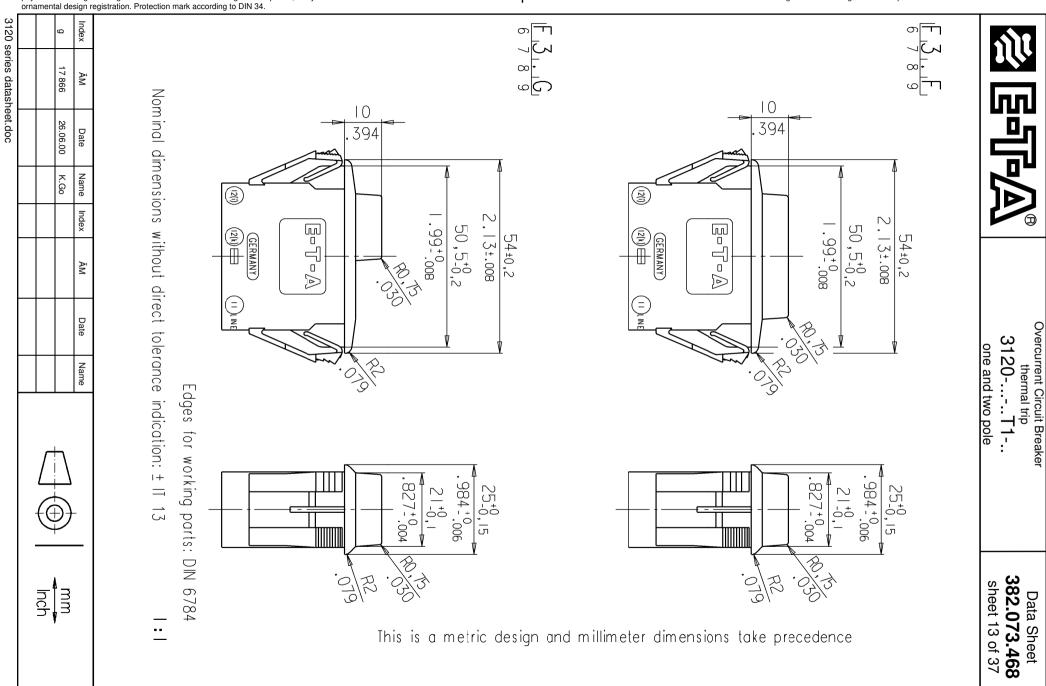




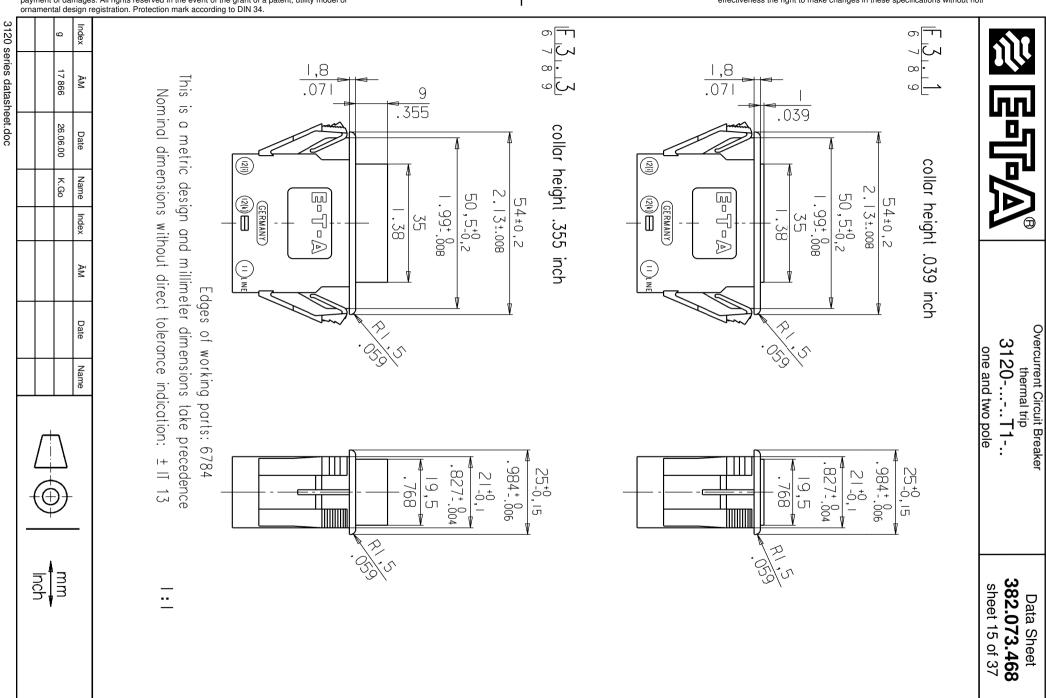


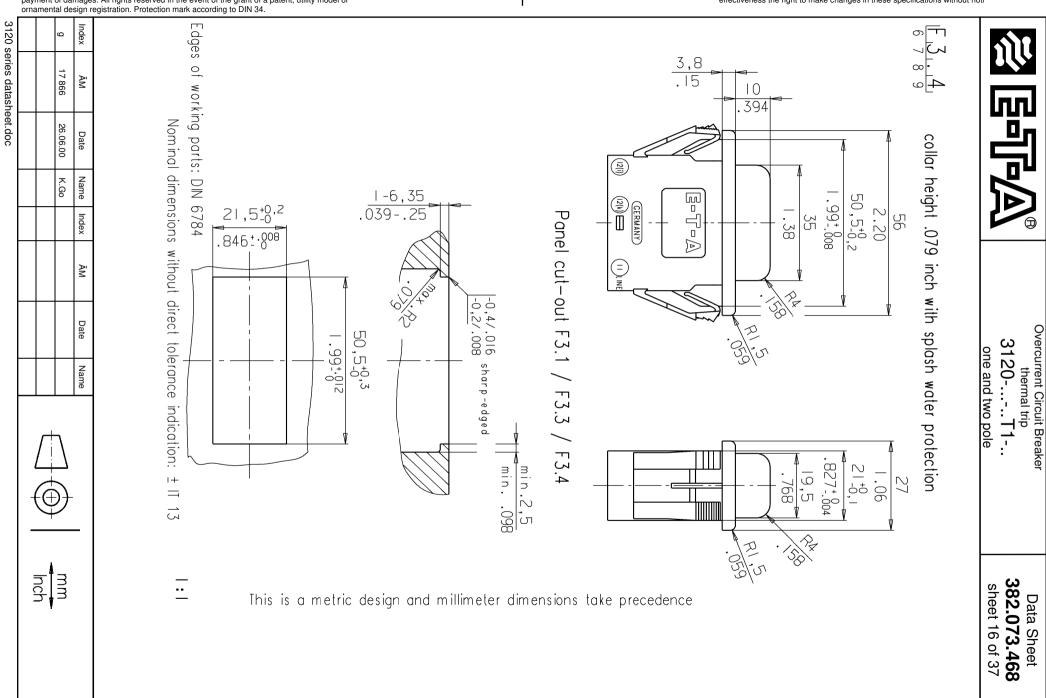


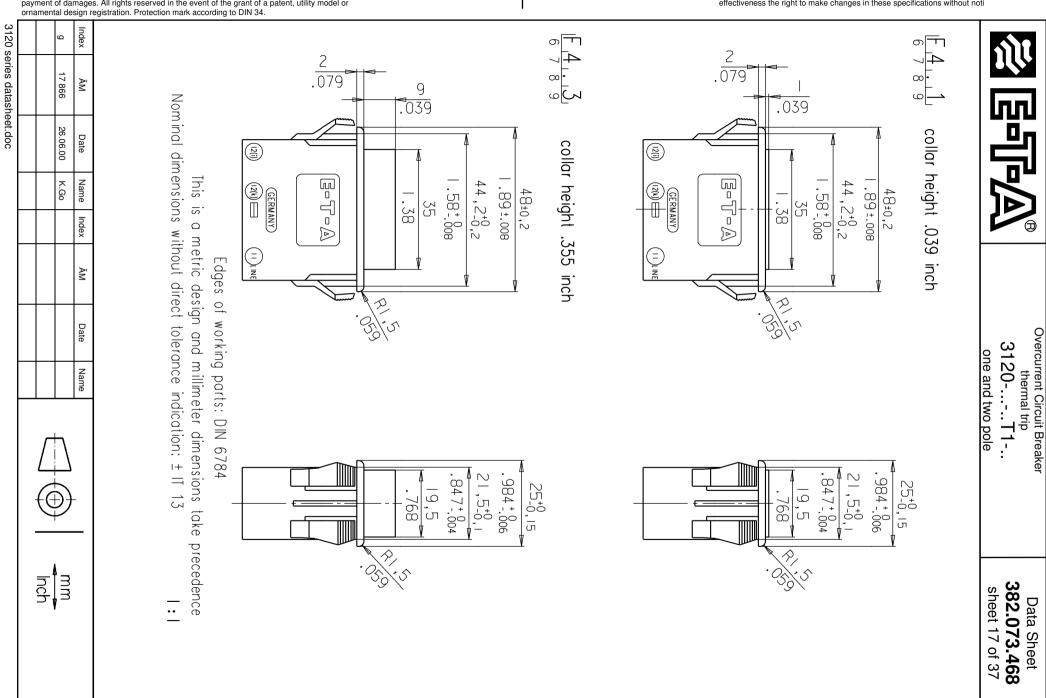


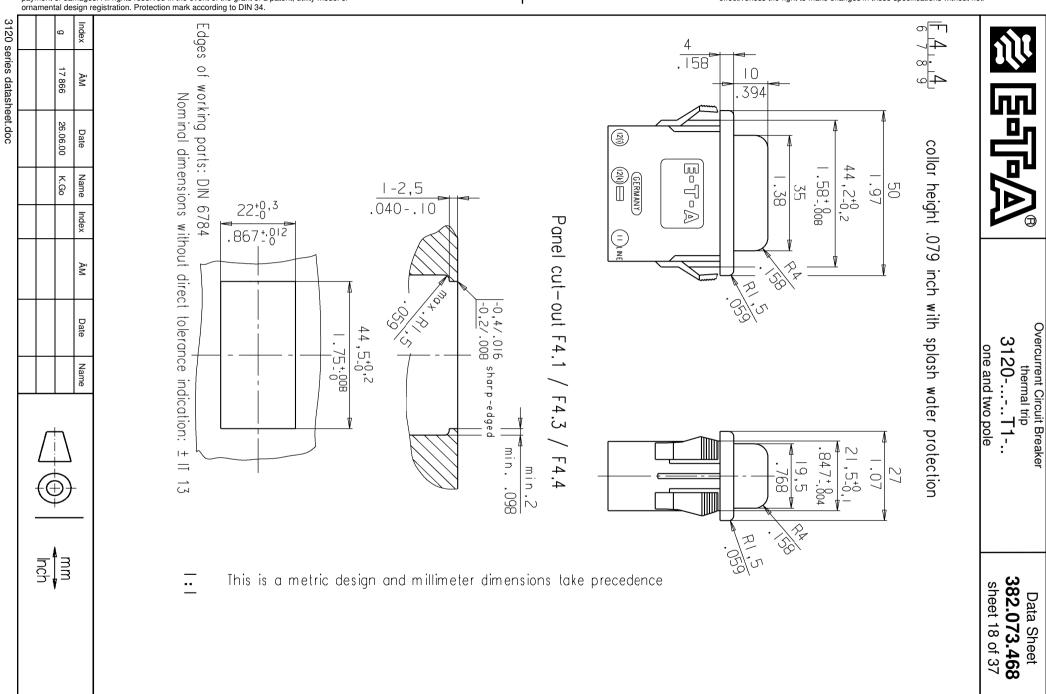


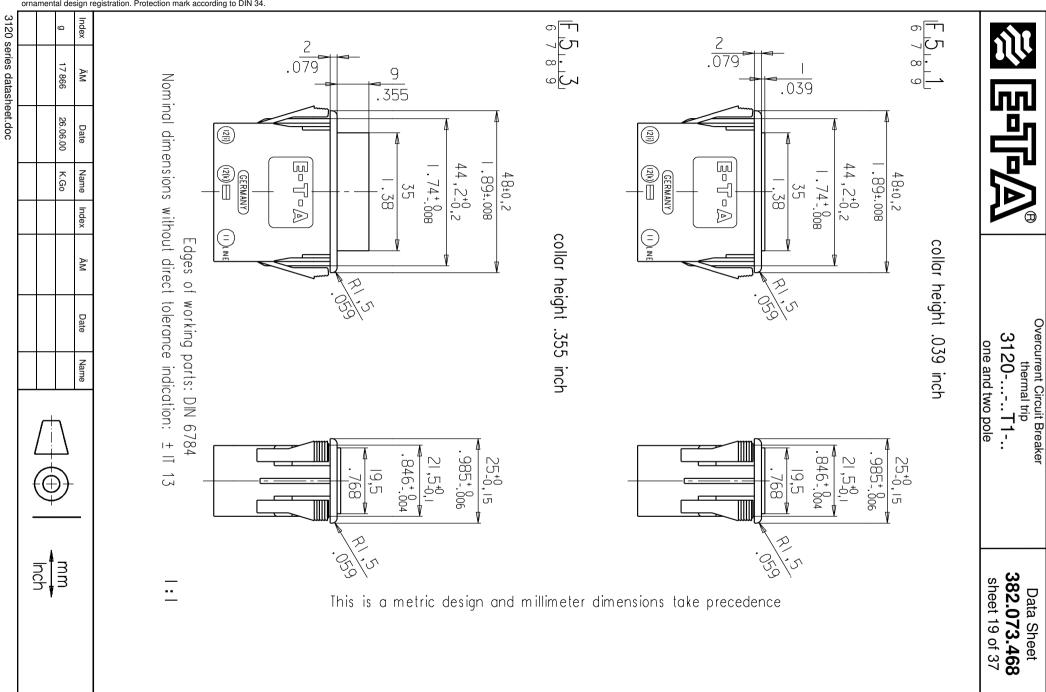
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	nch		784	382.073.468 sheet 14 of 37

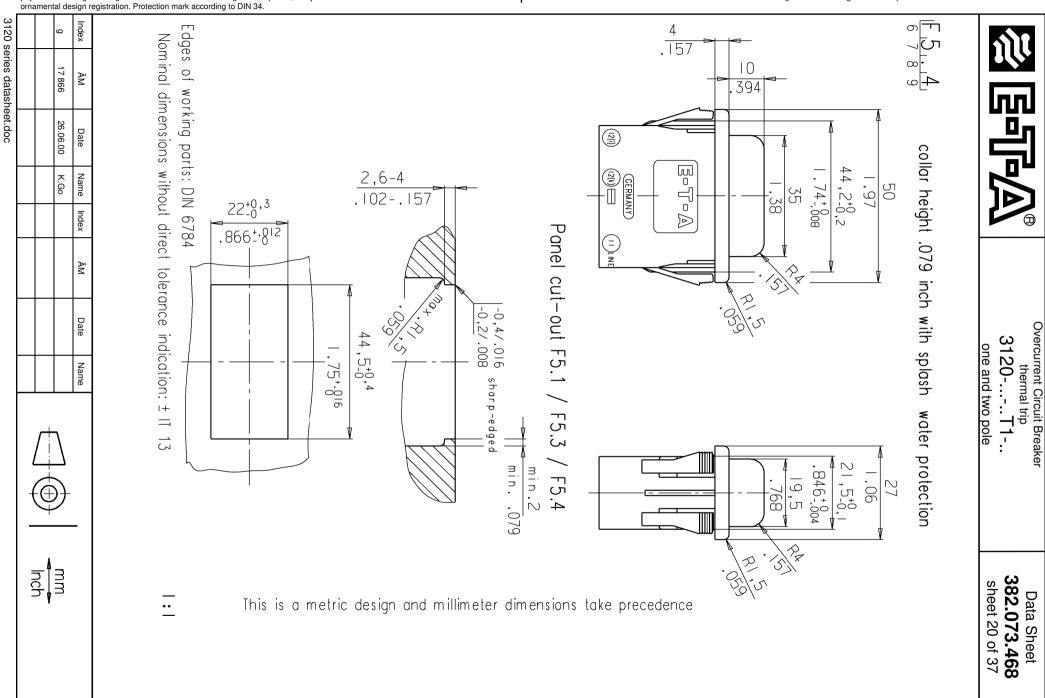


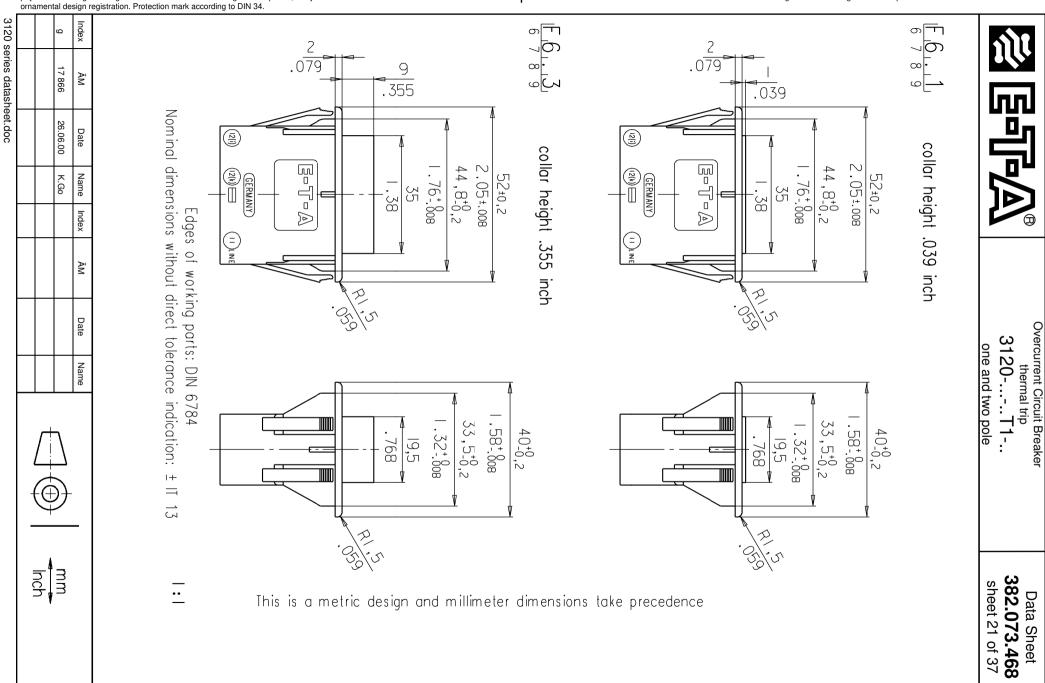




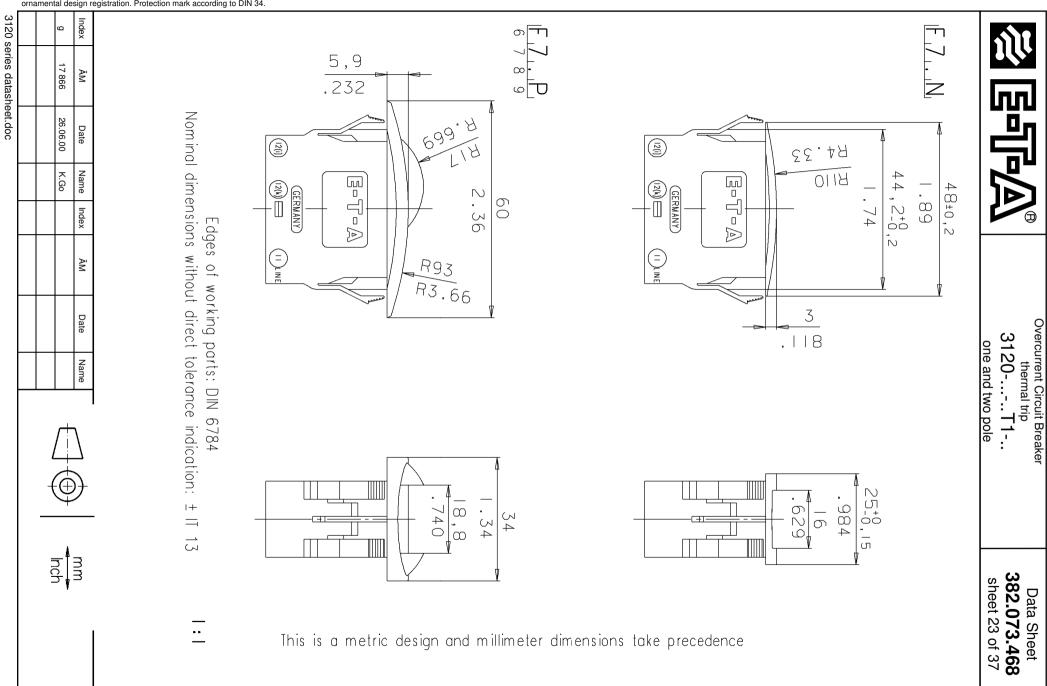






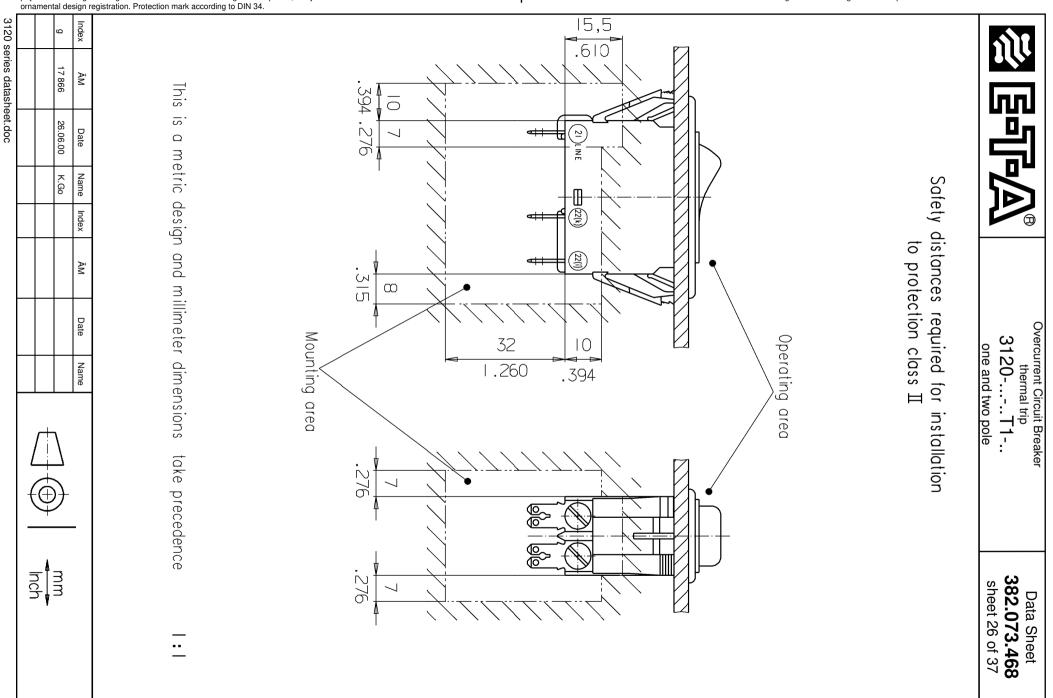


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		K.Go	Name	Edges c design nensions		ane I	P. P.	
			Index	s of w yn anc	1.7		ne l	D
			ÄΜ	orking I millim	77 +.010	047+.016	cut-out	
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			Name	DIN 6 imensi	+.045	+.032	6.1	rercurrent Circu thermal tr 3120
	<u></u>	7		Edges of working parts: DIN 6784 design and millimeter dimensions take precedence ensions without direct tolerance indication: ± IT 13	1.77+.088	.094 +.040		Overcurrent Circuit Breaker thermal trip 3120T1
		J T	_	tion: ±		-	min. 2	aker
		ノ —	_	edence	.77+.088	133+.004		
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				_				Data Sheet 382.073.468 sheet 22 of 37



3120 series datasheet.doc 17 866 ÄÄ .453 This Nominal dimensions without direct tolerance indication: S. 26.06.00 Date (<u>12</u>) metric design and millimeter dimensions take Name K.Go 44,8 4 60 Edges of working parts: DIN 6784 36 76 o` ÄM Date Overcurrent Circuit Liberthal trip 3120-...-..T1-.. one and two pole Name Circuit Breaker precedence 1+ =18,6 . 34 33 13 382.073.468 sheet 24 of 37 Data Sheet

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neet.doc	26.06.00	Date	Nominal dimensions without direct tolerance in	Panel Interness 1-4
	K.Go	Name	de sign	
		Index	withou	
		ÄM	and millimeter without direct	### ##################################
		Date	er dimensio	31 7.N / F 9r 75
		Name	sions to	thermal trip 3120T1 one and two pole / F7.P / F7.Q min. 2 min079 arp-edged
	/ † \		ns take pre indication:	T1 wo pole min. 2 min079
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	mm Inch			382.073.468 sheet 25 of 37
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	26.06.00	Date		Ordering	nur	mber		# X				7		7			
	K.Go	Name		31,20 1 2 3 4 5 6 7	لعيين.			screw	terminal M3,5	5 DIN 85 for							
	ok	ne		1234567	7 8 9 1		3 14		21		21	12(i)	22(i)	12(k)	22(k)	Connec	tion diagram
		Index		2 pole,	0	G 1						<u> </u>	> <			- 	
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					0	N 7						><	><			at option	12(i) o lood o 22(
		ÄΜ	•		6	G 1							>< <u>9</u>				Π γ line
				1 pole,	6	G 7				><		><	*her			with illumination	
				unprotected	6	N 1										at option	 ≫
		Date			6	N 7						\times	>√[5.				12(i)
		te			2	G 1			-			<u> </u>	> <	× ×	\sim	1	ο line ο 2
		7			2	H 1								\times	$\overline{}$	Version H1,H7,P1,P7 have no 12(i)and 22(i) terminal	+ / /
		Name		2 pole,	2	H 7				><	><			><	><	have no 12(i)and	<u> </u>
				thermally protected	2	N 1								\times	XX	with illumination	112(i)
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				protected	5	N 1			+							Version H1,H7,P1,P7 have no 12(i) terminal	i 12(i) 2
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					5	P 7							><	><			12(k) load
			•		1	G 7				><		\times	> < ⊴	\sim		,, .	
				1 pole,	1	H 7				><				><		Version H7,27 have no	Ţ (
				thermally protected	1	N 7						\times		\times		H7,P7 have no 12(i) terminal with illumination	12(i)e 022(
					[1]	P 7		> <		1	1			\rightarrow		at option	2(k) lood



Overcurrent Circuit Breaker thermal trip 3120-...-..T1-...

Data Sheet **382.073.468** sheet 27 of 37

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3120 series datasheet.doc		g 17 866	S. S			20.0	18.0	16.0	14.0	10.0	8.0	7.0	6.0	5.0	4.5	4.0	л (3.0) N.C	ა <u>1</u> .თ	1.2	1.0	0.8	0.6	0.5	0.0	0.2) <u>-</u>		E-I-A Current rating (A)	œ.	W III
et.doc		26.06.00 K.Go	2			32	32		25) N.C.) N	25	25	20	20	20	1 0	<u> 1</u>	1.00	3.15	2.00	2.00	1.60	1.40	1.25	1.00	0.40	0.20		Back-up	Back-up fuses	
- -			Si Na				-	■					VDE 0636,part 21	DIN 57 636/						1			delayed	DIN 41 571/3				—	-	k—up fuses to DIN Current rating (A)	to ensure sho	
-		NATIO	Non			80	70	60	60	5 +C	40 40	30	25	20	■												Б	→ C		Back—up fuses to UL Current rating (A)	to ensure short—circuit protection	Overcurrent Circuit Breaker thermal trip 3120T1 one and two pole
	77.007.																													L 1077		Data Sheet 382.073.468 sheet 28 of 37

Overcurrent Circuit Breaker thermal trip 3120-...-..T1-..

Data Sheet **382.073.468** sheet 29 of 37

Ordering number code

3120-F321-N7

3120: Type number Thermal or thermal-magnetic circuit breaker, single or double pole (with ON / OFF switch only option) $\,$

Mounting method

F: Snap-in frame or screw mounting

Configuration

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ы

7 f	6 †	5	4 f	ω	2	1 f	
for rocker	for rocker	for rocker	for rocker	for rocker or push buttons	for 2 push buttons and water splash cover	for rocker	
44.5 x 22.0 mm 1.0 – 4.0mm	45.0 x 33.7 mm	44.5 x 22.0 mm	44.5 x 22.0 mm	50.5 x 21.5 mm	50.0 x 26.0 mm	32.0 x 16.5 mm	panel cut-out
1.0 - 4.0mm	1.2 - 3.4 mm	2.6 - 4.0 mm	1.0 - 2.5 mm	1.0 - 6.35 mm			panel thickness screw mounting
					×	×	screw mounting
×	×	×	×	×			snap-in housing

4. Number of poles

g	dex						
	×		6	5	2	_	0
17 866	ÄM		1 pole, i	2 pole, t	2 pole, t	1 pole, i	2 pole, ı
26.06.00	Date		1 pole, unprotected, switch only	2 pole, thermally protected on one only	2 pole, thermally protected	1 pole, thermally protected	2 pole, unprotected, switch only
K.Go	Name		l, switch	otectec	otectec	otectec	l, switch
	Index	•	ו only	d on on	_		າ only
	ÄM			e only			
	Date						
	Name						

ectiven	ess the	ie right to	make	changes in these specifications without noti
				Ö.
9	5	4 3 -	1	Style
mounting thread 2 x 6-32 l				Style, accessory

3120-...-..T1-..

Data Sheet **382.073.468** sheet 30 of 37

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Snap-in frame	Snap-on splash cover	Snap-on actuator guard preventing inadvertent operation	colour grey (stratos grey), new design	I and 0 marked on top of flange	I and 0 marked on top of flange	I and 0 marked on top of flange	I and 0 marked on top of flange	frame with 1 push button	frame with 2 push buttons	sealing (sealing grease)	with silicone cover and additional	with silicone cover	with additional sealing (sealing grease)	current rating marked on top of flange	with transverse hole 4mm dia	mounting thread 4 x M3,5	mounting thread 4 x 6-32 UNC	mounting thread 2 x M3,5	mounting thread 2 x 6-32 UNC							
	×									*		×	×								×				splash protection	water
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Data Sheet **382.073.468** sheet 31 of 37

6. Terminal design

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M1			Charac	Jnprot	P7	N7	L7	K7	H7	G7	B2	쯔	A3	A2	A1			
thermal - magnetic			Characteristic curve	ected chambers only		×	×			×		×	×			12(i), 22(i) A3 terminals		
				with B1, G7, L7	×	×	X	×	×	×	×	×	×	×	×	12(k), 22(k)	T	blade tern
				Unprotected chambers only with B1, G7, L7 or N7, but without terminal 12 (k) or 22 (k)	×	×	with M3.5 screw with +/- slot	with M3.5 screw with +/- slot	with screw ISO 1580 - M3,5	with screw ISO 1580 - M3,5	with screw ISO 1580 - M3,5 and washer and tab DIN 46 244-C	with screw ISO 1580 - M3,5 and washer and tab DIN 46244-C	with M3,5 screw with +/- slot and clamping plates and A3 terminals	with M3,5 screw with +/- slot and clam- ping plates	with screw ISO 1580 - M3.5 and clamping plates	11, 12	Terminal code	blade terminals DIN 46 244 - C
0	0			12 (k) o			t	t			and -C	and wa	t and cl	t and cl	and			
× 1 numb	numb 1	numb		· 22 (k)								asher and	am-	am-				
number of poles	er of p	er of p				×	×			×		×	×			0		
yoles ×	oles 5	oles		•	×	×	×	×	×	×	×	×	×	×	×	_	numk	
					×	×	×	×	×	×	×	×	×	×	×	2	number of poles	
d	C	מ			×	×	×	×	×	×	×	×	×	×		5	poles	
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		Index				rations		
		ÄM				switch only; 50,000 operations, max 20A, cos		
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Overcurrent Circuit Breaker thermal trip 3120-...-..T1-.. one and two pole

382.073.468 sheet 32 of 37 Data Sheet

For markings of A, K, M, U W and X see sheets 33 - 35custom designed rocker push button, momentary

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