



Powering Business Worldwide

Tekniske data

T og P KAMBRYTERE

Egenskap	Type →	T0-...	T3-...	T5B-...	T5-...	T6-...	T8-...	P1-25	P3-63		
Generelt ● Forskrifter		VDE, IEC, CSA, UL, NEC, NEMA, BSS, SEV, UTE... VDE, IEC, SEV.....VDE, IEC, CSA, UL DEMKO, NEMKO, SEMKO, Finland..... Verdensprodukt Verdensprodukt									
• mekanisk levetid max. koblingshyppighet ● Klimafasthet	Koblinger	S/h	< 10⁶.....5 x 10⁵ 3000 Fuktighet varme, konstant etter DIN-IEC 68 del 2-3 Fuktighet varme, syklisk etter DIN-IEC-68 del 2-30 +50/-25..... +40/-25..... vilkårlig side > 15						10 ⁶5 x 10 ⁵		
Omgivelsestemperatur	max./min. åpen kapslet	°C °C									
● Målskisse, vekt Sjokksikkerhet (støttid 20 ms)		g									
Strømbane ● Merkeisolasjonsspenning U _i Gruppe C (III/3 DIN VDE 0110 1.89) V ● Frekvens ● Merkestrøm åpen kapslet (ved max. tverrsnitt)		Hz A	690~..... til 5000								
			22/20	35/32	72/63	100/85	125	250	25 32	63 100	
			1,3/1,6/2 x I _g								
● Kortslutningssikkerhet max. overstrømsbeskyttelse			PKZM 1-16 PKZM 1-25 NZM 6-63NZM 6-100..... NZM 9-250 (F)AZB-25NZMH4-63 (F)AZB-32NZMH6-100								
eller smeltesikring (gL eller aM)		A max. A max. A _{eff}	20	35	80	100	200	315	25 50 640	80 100 1260	
● Merkekortidsstrøm (1-s-strøm)			320	650	1300	1850	2000	4200	640	1260	
● Utkoblingssikker etter VDE 0660 del 107 ● Koblingsvinkel ● Byggeenheter (BE) Kontakter (strømveier) ● Strømvarmetap pr Strømløp ved I _g ● Tilkoblingstverrsnitt e = entrådet = flertrådet f = mangetrådet inkl. hylse etter DIN-46228	inntil... V~ max. max. W W min. e/f max. e/f max. e/f mm ² mm ² mm ² Tilkoblingsskrue	500 90°/60°/45°/30° 11 22 0,6 8 1/0,75 2,5/1,5 2,5/1,5 M3,5	660/690 ¹⁾ 11 20 4,5 1,5/1 16/10 16/10 M8x0,75	950 650 600 540 330 330 100 22 30	1600 1250 760 680 180 125 37 15 13	2390 1250 1140 860 300 250 37 55 45 22	240 330 330 220 220 25 4 5,5 5,5 11 7,5 30 18,5	800 1100 720 600 300 300 63 (80) 15 22 22 37 30 45 18,5 30 18,5 55 30			
Koblingsevne ● Vekselspenning Innkoblingsevne Utkoblingsevne Motorbryter		cos φ = 0,3 220 V~, cos φ = 0,3 400 V~, cos φ = 0,3 500 V~, cos φ = 0,3 690 V~, cos φ = 0,3 Merke/driftsstrøm I _g	A A A A A A	130 100 100 80 60 12	320 240 240 240 240 25	800 650 600 540 330 63	950 650 600 540 330 100	1600 1250 760 680 180 125	2390 1250 1140 860 300 250	240 330 330 220 220 25	800 1100 720 600 300 300 63 (80)
AC-21 Lastbryter AC-3 Motorbryter for driftsmessige koblinger (...): YD-Bryter uten automatskiftegang	380...440 V, 3~ 500 V, 3~ 660/690 ¹⁾ V, 3~	kW kW kW	4 (5,5) 4 (5,5) 4 (5,5)	11 (18,5) 15 (22) 15 (22)	22 22 22	37 37 30	37 37 13	55 55 22	55 45 22	7,5 7,5 11	30 30 30
AC-23 Motorbryter (hovedbryter, vedlikeholdsbyrter)	220...240 V, 3~ 380...440 V, 3~ 500 V, 3~ 660/690 ¹⁾ V, 3~	kW kW kW	3 5,5 5,5	6,5 13 15	15 30 30	18,5 37 37	22 45 37	37 90 90	37 90 90	5,5 7,5 11	18,5 30 37 55 30
AC-11 Styrbryter	Merke/driftsstrøm I _g 220...240/380...415/500 V	A	6/4/4	10/6/4	16/6/4						
● Likespenning DC-1 Lastbryter L/R = 1 ms Spennning pr. seriekoblet kontakt DC-21 DC-2 Motorbryter bis L/R = 15 ms DC-5 (...): Antall kontakter koblet i serie	Merke/driftsstrøm I _e 240 V~ 24 V~ 48 V~ 60 V~ 120 V ~ 240 V~	A A V A A A A	10 60 1 (1) 10 (1) 10 (1) 10 (3) 5 (3) 5 (5)	25 60 1 (1) 25 (1) 25 (2) 25 (3) 12 (3) 10 (5)	63 60 60 50 (1) 50 (2) 50 (3) 25 (3) 20 (6)	100 60 60 50 (1) 50 (2) 50 (3) 50 (3) 20 (6)	125 42 42 125 (1) 125 (2) 125 (3) 50 (3) 50 (3)	250 42 42 250 (1) 250 (2) 125 (3) 250 (3) 50 (3)	25 60 60 25 (1) 25 (2) 25 (3) 12 (3) 12 (3)	63 100 60 50 (1) 50 (2) 50 (3) 25 (3) 25 (3)	
DC-11 Styrebryter L/R = 50 ms Spennning pr. seriekoblet kontakt ● Styring av elektronikk (SPS) (PLS)	Merke/driftsstrøm I _g V 24 V DC	A V 24 V DC	10 32 2...10 mA, Spenningsområde etter DIN-19240...	20 32	25 24	125 24					
Hovedbryter ● Merkeisolasjonsspenning U _i gruppe C/VDE 0110 ● Merkestrøm I _u Merkedriftsstrøm I _e AC-11 ved 220...240/380...415/500 V ● Kortslutningssikkerhet uten sveising, max. overstrømsbeskyttelsesorgan eller smeltesikring (gL, aM) max ● Tilkoblingstverrsnitt		V~ A A A e/f min. e/f max.	500..... 10..... 6/4/3..... PKZM 1-2, 4..... 10..... 0,75/0,5..... 2,5/1,5.....								

Spesielle egenskaper

Hovedbryteregenskaper etter VDE 0113; Tvangsforløp, (ikke til å ta feil av).

Koblingsskjema

Brytere

TM-1-81 90
T0-1-8200
T3-1-8200



FS 908



TM-1-8291
T0-1-102
T3-1-102
T5B-1-102



FS 908



TM-2-8292
T0-2-1
P1-25
P1-32
P3-63
P3-100
T6-2



FS 908



T0-2-8293



FS 908



P1-25/.../N
P1-32/.../N
P3-63/.../N
P3-100/.../N



FS 908



T0-3-8342
T3-3-8342
T5B-3-8342



FS 908



T0-1-15401



FS 415



T0-1-8201



FS 415



T0-2-8202



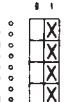
FS 415



T0-2-8203



FS 415

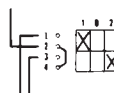


Vendere

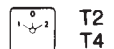
TM-1-8210
T0-1-8210



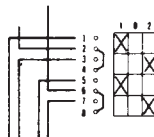
FS 684



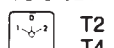
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T0-2-8211



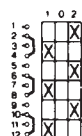
FS 684



TM-3-8212
T0-3-8212
T6-3-8212
T8-3-8212



FS 684



TM-1-15431
T0-1-15431



FS 1401



TM-2-15432
T0-2-15432



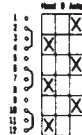
FS 1401



TM-3-15433
T0-3-15433



FS 1401



T0-2-19659



T0-1-15434

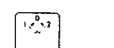


FS 141000



Vendere

T0-1-8214



FS 4011



T0-2-8215



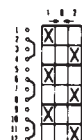
FS 4011



T0-3-8216



FS 4011



TM-1-8220
T0-1-8220



FS 943



T0-2-8221



FS 943



T0-3-8222



FS 943



T0-1-15451



FS 190384



T0-2-15452



FS 190384



T0-3-15453



FS 190384

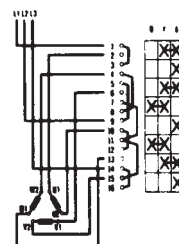


Y/D-vendere

T0-4-8410



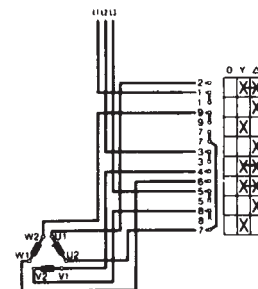
FS 635



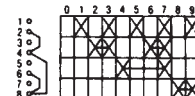
T3-4-3
T5B-4-3



FS 635



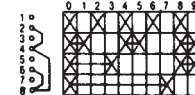
TM-2-8550



TM-2-8551



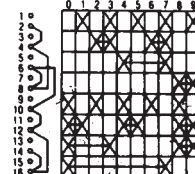
FS 304



TM-4-8552



FS 304



Koblingsskjema

Dreieretningsvendere

T3-5-15896

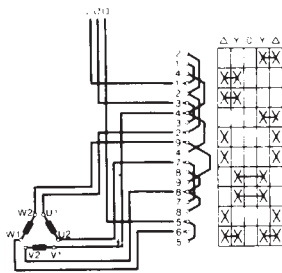


FS 638

T5B-5-15896



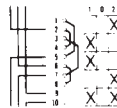
FS 4017



T0-3-8401



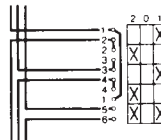
FS 684



T3-3-2
T5B-3-2
T5B-2-1



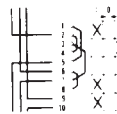
FS 621



T0-3-8228



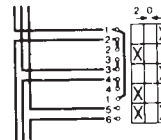
FS 4011



T3-3-2



FS 458

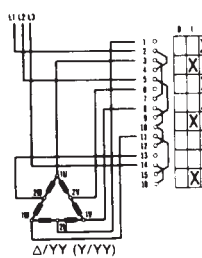


Polomkoblere

T0-4-8440



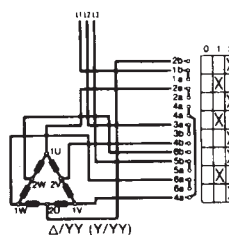
FS 644



T3-3-190
T5B-4-4



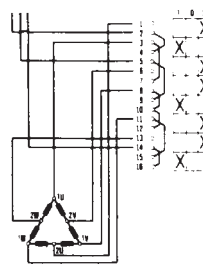
FS 644



T0-4-8441



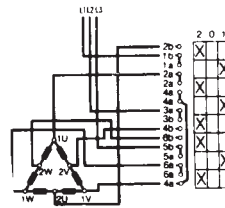
FS 684



T3-4-4
T5B-4-5



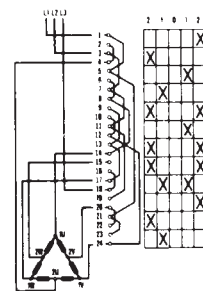
FS 621



T0-6-15866



FS 629



T3-6-66

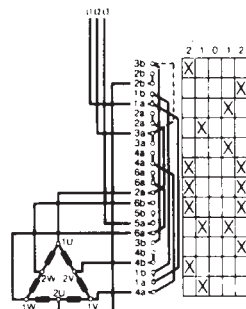


FS 629

T5B-7-66



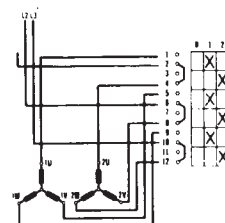
FS 441



T0-3-8451



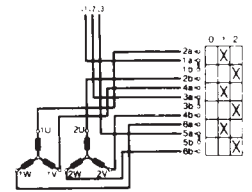
FS 644



T3-3-6
T5B-3-6



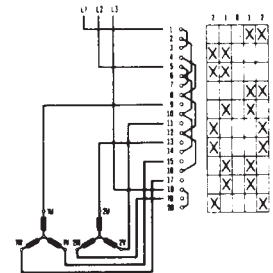
FS 644



T0-5-8453



FS 629



T3-5:71

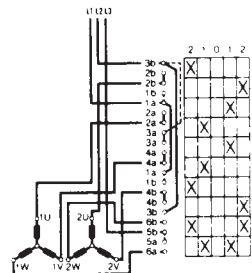


FS 629

T5B-3-71



FS 441



Reguleringsbrytere

T0-2-95
T3-2-95

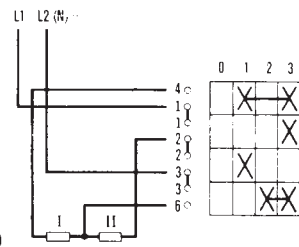


FS 616

T5B-2-95



FS 420



T0-2-96
T3-2-96

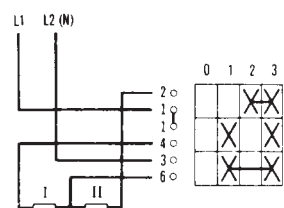


FS 616

T5B-2-96



FS 420

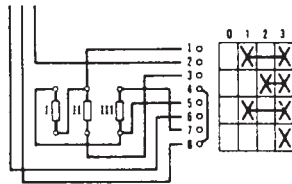


Koblingsskjema

T0-2-8316
T3-2-8316
T5B-2-8316



FS 420

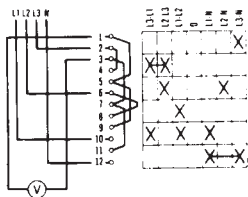


Instrumentvendere

T0-3-8007



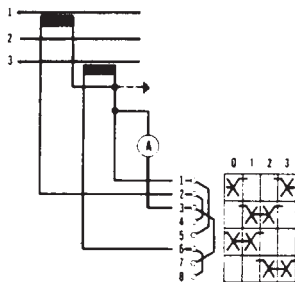
FS 1410759



T0-2-8021
T3-2-8021



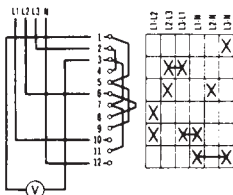
FS 9440



T0-3-15924



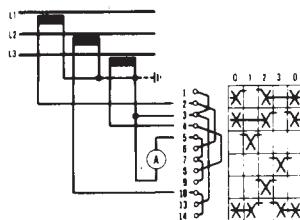
FS 164721



T0-3-8048



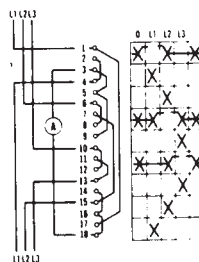
FS 9440



T0-5-15925



FS 9440



Trinnbrytere

TM-1-8240
T0-1-8240



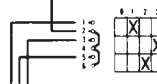
FS 418



TM-2-8241
T0-8241



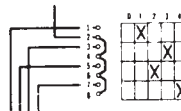
FS 420



TM-2-8242
T0-2-8242



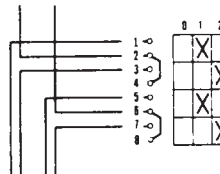
FS 422



T0-2-8260



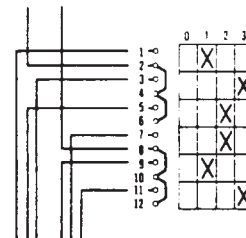
FS 418



T0-3-8261



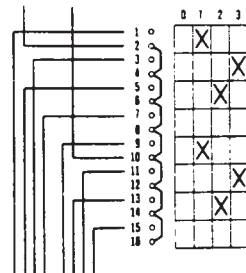
FS 420



T0-4-8262



FS 422



T0-1-8220



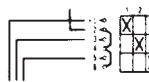
FS 943



TM-2-8230
T0-8230



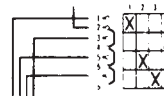
FS 404



TM-2-8231
T0-2-8231



FS 606



T0-2-8221



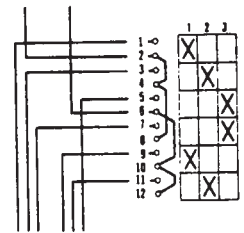
FS 943



T0-3-8250



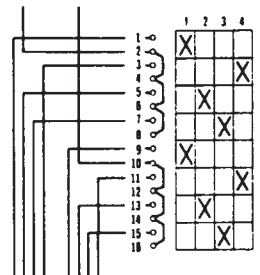
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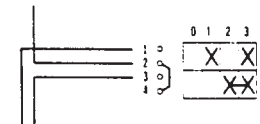
FS 406



T0-1-8330



FS 420

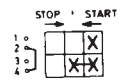


Impulsbrytere

T0-1-8176



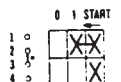
FS 14510



TM-1-8178
T0-1-8178



FS 147767



T0-1-8175



FS 14915



T0-1-8204



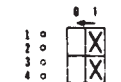
FS 455



T0-1-8205



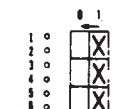
FS 455



T0-2-8206



FS 455



T0-1-8174

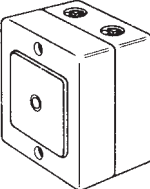
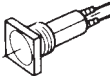
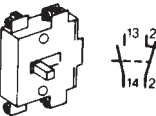


FS 14913



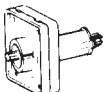
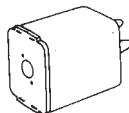
Oversikt

A	TM	T0/T3		P1	P3
mm frontskilt	10	20		25 32	63 100
	30 x 30	48 x 48		48 x 48	88 x 88
BYGGEFORM	Type		Type		
Innfelling. Front IP65 Montasje i dører, paneler osv. Innbygging og tilkobling fra baksiden. Tilkoblingsklemmer IP20	T0-.../E		P...-.../E		
Sentralinnfelling Front IP55 Hurtigmontasje i ett hull, Ø 22,5 mm	T0-.../EZ		P1-.../EZ		
Installasjonsmodul Front IP55 For montasje under samme avdekkingssystem som f.eks. elementautomater, modul 45 mm. Sneppefeste for 35 mm-skinne	T0-.../IVS		P1.../IVS P3.../IVS-GR		
Delt montasje Front IP55 Anvendes ved montasje i kapslinger uten hengslet lokk.	T0-.../Z		P...-.../Z		
Basisutførelse' Som T0-.../IVS, men uten akse og avdekking.	T0-.../XZ				
Kapslet. IP65 For påveggsmontasje. Med isolert N- og PE-klemme.	T0-.../I		P...-.../I(G)		
Sikkerhetsbryter Med låsbart grep. Se hovedkatalog 3C.	T0-.../ISV		P...-.../I(G)/SVB		
Innfelling med låsbart grep Som for .../E, med tillegg av skilt «Hovedbryter» og N/PE-klemmer	T0-.../EA/		P...-.../EA/SVB		
Delt montasje med låsbart grep Som for .../Z med tillegg som over.	T0-.../V/S'		P...-.../V/SVB		

Betegnelse	Anvendelse Bygge- form	Bryterstørrelse T0 T3 T5/P1 P3					Bemerkning	Type	E.nr.
Kapsling, isolerstoff									
	XZ	X	–	–	–	–	For ombygging av utførelse XZ/E til	CI-T0-2	14 565 17
	XZ	–	X	–	–	–	.../I. 2 klemmer for N og PE er innmontert	CI-T0-4	14 565 18
	E	–	–	X	–	–	Ved T5... må også tilkoblingsvinkler AW bestilles	CI-T3-2	14 565 20
		–	–	X	–	–	inntil 2 dekk	CI-T3-4	14 565 21
		–	–	X	–	–	inntil 4 dekk	CI-T5B-4	14 569 59
Signallampe 	I	X	X	–	–	–	Spennings angis	Hvit L-PKZM1	43 572 18
		Normalt glimlampe	Grønn L-GN-PKZM1	43 572 19					
		110...500V.	Rød L-RT-PKZM1	43 572 20					
Hjelpekontakt									
	Alle	–	–	–	X	X	For P1 og P3. Kan påmonteres både på venstre og høyre side. I kapslet utgave kun 1 stk.	HI11-P1/P3 Z	14 565 26
								HI11-P1/P3/E	14 565 48
Klemme- avdekking									
	E. Z	–	–	–	X	–	For 3-polet bryter	H-P1	14 565 30
	E. Z	–	–	–	X	–	For 4-polet bryter, også med HI 11.	H-P14	14 565 31
	E. Z. IVS	–	–	–	–	X	For 3-polet bryter, også med HI 11 eller N-kontakt.	H-P3	14 565 32
Grep									
	Alle	X	X	–	X	–	For T0,T3 og P1	Svart KNB-T0	14 565 33
							Rødt	KNB-RT-T0	14 565 34
	E. Z. I	–	–	X	–	X	For T5/P3	Svart KNB-P3	14 565 35
							Rødt	KNB-RT-P3	14 565 36

Tilleggsutstyr

for KAMBRYTERE

Betegnelse	Anvendelse	Type	E.nr.
Dørkobling 	For ombygging av: T0.../XZ til T0.../Z. T3.../E til T3.../Z T5B.../E til P3.../E	DE-T0 DE-P3	14 565 45 14 565 47
Forriglingsdel 	Dørforrigling ved .../Z utførelse UV-T0 passer også til P1-T3	UV-T UV-T0 UV-P3	14 565 49 14 565 52
Forriglingsforlenger 	Maks. 4 stk. à 25 mm (T0-T3-P1) Samme antall akselforlenger er nødvendig	ZVV-T0 ZVV-P3	14 565 53 14 565 56
Akselforlenger 	Akselforlenger 25 mm (T0-T3-P1) Maks. 4 stk. Mellomverdier justeres med DE...	ZAV-T0 ZAV-P3	14 565 55 14 565 58
Klemmeavdekking IP54 	Benyttes ved behov for ekstra berøringsbeskyttelse ved innfelte brytere (T0-T3-P1)	H3-T0	14 565 62
0-lederkontakt 	For ombygging av 3-pol bryter til 4-pol (3p + N)	N-P1E N-P1Z N-P3E N-P3Z	14 565 65 14 565 66 14 565 28 14 565 29