











DC-Lasttrennschalter für Photovoltaik

nach IEC 60364-7-712

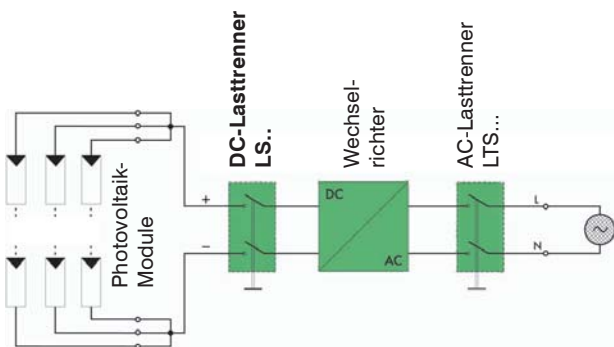


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Nennwerte				DC-Lasttrennschalter				
Typ	Nennbetriebsstrom			Bauformen	Fronteinbau Vierlochbefestigung IP66 ¹⁾	Zentral- mit Türkupplung Ø22,5mm IP66 ¹⁾	Verteilereinbau IP40 ¹⁾ IP66 ¹⁾	Reiheneinbau
	I_{th} offen A	DC21B(DC-PV1) 4 Kontakte in Serie A	bei U_e V					
LS16	16	16	1000	.. E ..	.. Z(O) ..	.. VZV ..	.. SMA ..
LS25	25	25	1000	.. E ..	.. Z(O) ..	.. VZV ..	.. SMA ..
LS32	32	32	1000	.. E ..	.. Z(O) ..	.. VZV ..	.. SMA ..
LS40	40	25	1000	.. E ..	-	.. VZV ..	.. SMA ..
LS55	55	32	1000	.. E ..	-	.. VZV ..	.. SMA ..

Lasttrennschalter für Photovoltaik

Gemäß IEC 60364-7-712 „Errichten von Photovoltaik-Versorgungssystemen“ ist eine Einrichtung zum Trennen (= Lasttrennschalter) der Photovoltaik-Module vom Wechselrichter verbindlich vorgeschrieben.



Lasttrennschalter „LS“ gewährleisten ein zuverlässiges Schalten von bis zu 85A bei 1500V in der Kategorie DC21B (DC-PV1).

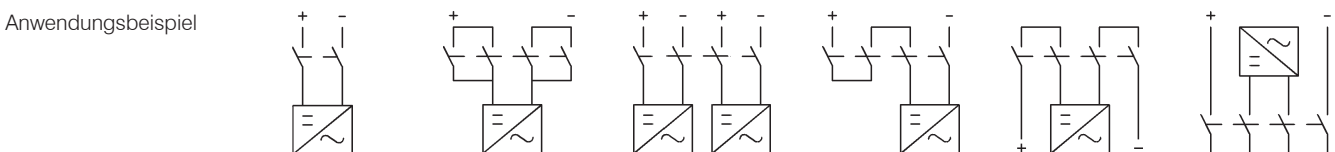
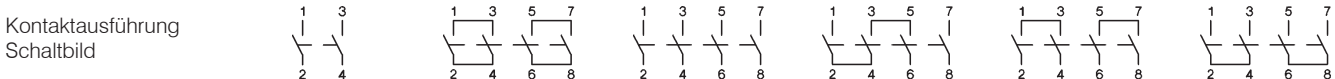
Die Kontakte sind gegen Oxydation (geringe Schalthäufigkeit) und somit gegen unzulässige Erwärmung geschützt.

Der Lasttrennschalter ist mit 2, 4, 6 oder 8 schaltbaren, einzelnen Kontakten ausgestattet. Durch Serien- und Parallelschaltung der Kontakte kann die Schaltleistung entsprechend erhöht werden.

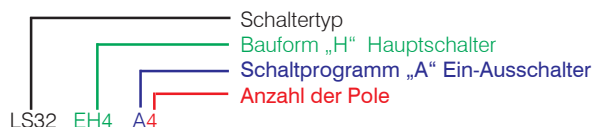
Die hohe Schaltgeschwindigkeit der Kontakte ist unabhängig von der Betätigungsgeschwindigkeit des Handgriffes.

Schaltprogramme

Typ	2-polig	2+2-polig 2 Pole in Serie + 2 Pole parallel	4-polig	4-polig mit Brücken Einspeisung oben Abgang unten	4-polig 2 Brücken oben Einspeisung und Abgang unten	4-polig 2 Brücken unten Einspeisung und Abgang oben
LS16	.. A2	.. A2+2	.. A4(2 x A2)	.. A4B	.. A4O	.. A4U
LS25	.. A2	.. A2+2	.. A4(2 x A2)	.. A4B	.. A4O	.. A4U
LS32	.. A2	.. A2+2	.. A4(2 x A2)	.. A4B	.. A4O	.. A4U
LS40	.. A2	.. A2+2	.. A4(2 x A2)	.. A4B	.. A4O	.. A4U
LS55	.. A2	.. A2+2	.. A4(2 x A2)	.. A4B	.. A4O	.. A4U



Bestellanleitung



1) Schutzart von vorne im eingebauten Zustand

DC-Hauptschalter

Fronteinbau
Vierlochbefestigung
IP66¹⁾



Zentralbefestigung
Ø22,5mm
IP66¹⁾



Verteilereinbau
mit Türkupplung
IP66¹⁾



Reiheneinbau
IP40¹⁾



Preßstoffgekapstelt
PF...IP66¹⁾, PFL...IP67



.. EH4. ..	.. Z(O)H1 ..	.. VZVH4 ..	.. SMAH1 ..	.. PFLH4 ..
.. EH4. ..	.. Z(O)H1 ..	.. VZVH4 ..	.. SMAH1 ..	.. PFLH4 ..
.. EH4. ..	.. Z(O)H1 ..	.. VZVH4 ..	.. SMAH1 ..	.. PFLH4 ..
.. EH4. ..	-	.. VZVH4 ..	.. SMAH1 ..	.. PFLH4 ..
.. EH4. ..	-	.. VZVH4 ..	.. SMAH1 ..	.. PFLH4 ..

Technische Daten für DC, nach IEC 60947-3, VDE0660, weitere Daten siehe Seite 303

Typ		DC21A/B (DC-PV1)								DC22B			
		500V	600V	700V	800V	900V	1000V	1200V	1500V	500V	600V	800V	1000V
2 Pole in Serie 	LS16 ..	16A	16A	16A	16A	16A	10A	7A	3A	7A	5,5A	2A	1A
	LS25..	25A	25A	25A	19A	17A	11,5A	8,5A	5A	8A	6A	2,5A	1,5A
	LS32 ..	32A	32A	32A	21A	18A	13A	10A	6A	9A	6,5A	3A	2A
	LS40 ..	40A	40A	37A	35A	31A	29A	11A	7,5A	-	-	-	-
	LS55..	55A	55A	55A	55A	43A	36A	17A	10A	-	-	-	-
2 Pole in Serie+2 parallel 	LS16 ..	29A	29A	22A	17A	16A	10A	7A	3A	-	-	-	-
	LS25..	45A	36A	27A	19A	17A	12A	9A	5A	-	-	-	-
	LS32 ..	58A	55A	32A	21A	18A	13A	10A	6A	-	-	-	-
	LS40 ..	72A	72A	49A	42A	31A	29A	11A	7,5A	-	-	-	-
	LS55..	85A	85A	77A	63A	43A	36A	17A	10A	-	-	-	-
4 Pole in Serie 	LS16 ..	16A	16A	16A	16A	16A	16A	16A	16A	16A	16A	11,5A	8A
	LS25..	25A	25A	25A	25A	25A	25A	25A	25A	25A	25A	12A	9A
	LS32 ..	32A	32A	32A	32A	32A	32A	32A	32A	32A	32A	12,5A	10A
	LS40 ..	40A	40A	40A	40A	40A	40A	40A	40A	40A	40A	-	-
	LS55..	55A	55A	55A	55A	55A	55A	55A	55A	55A	55A	-	-
4 Pole in Serie+2 parallel 	LS16 ..	29A	29A	29A	29A	29A	29A	29A	20A	-	-	-	-
	LS25..	45A	45A	45A	45A	45A	45A	45A	26A	-	-	-	-
	LS32 ..	58A	58A	58A	58A	58A	58A	50A	32A	-	-	-	-
	LS40 ..	72A	72A	72A	72A	72A	72A	56A	42A	-	-	-	-
	LS55 ..	85A	85A	85A	85A	85A	85A	65A	55A	-	-	-	-

Schaltprogramme

Typ	6-polig	3+2-polig 3 Pole in Serie +2 Pole parallel	8-polig	4+2-polig 4 Pole in serie +2 Pole parallel
LS16	...A6	.. A3+2	...A8	.. A4+2
LS25	...A6	.. A3+2	...A8	.. A4+2
LS32	...A6	.. A3+2	...A8	.. A4+2
LS40	...A6	.. A3+2	...A8	.. A4+2
LS55	...A6	.. A3+2	...A8	.. A4+2
Kontaktausführung Schaltbilder				
Anwendungsbeispiele				

Isolierter Verbinder LSV... für Serien- und Parallelschaltung von Kontakten

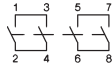


Typ	VPE	Gewicht
LS16, LS25, LS32	100	6,6 g/Stk.
LS40, LS55	100	9,64 g/Stk.

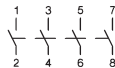
Ein-Aus-Schalter, Fronteinbau m. Vierlochbefestigung, Schild 64□, Schutzart IP66, Typ 3R



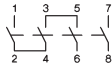
DC21B / DC-PV1 600V DC 1000V DC		Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
16A	10A	2	1	LS16 E A2	1	0,20
25A	11,5A	2	1	LS25 E A2	1	0,20
32A	13A	2	1	LS32 E A2	1	0,20
40A	29A	2	1	LS40 E A2	1	0,41
55A	36A	2	1	LS55 E A2	1	0,41



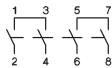
29A	10A	2	1	LS16 E A2+2	1	0,25
36A	11,5A	2	1	LS25 E A2+2	1	0,25
55A	13A	2	1	LS32 E A2+2	1	0,25
68A	29A	2	1	LS40 E A2+2	1	0,54
85A	36A	2	1	LS55 E A2+2	1	0,54



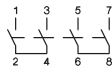
16A	10A	2	2	LS16 E A4	1	0,23
25A	11,5A	2	2	LS25 E A4	1	0,23
32A	13A	2	2	LS32 E A4	1	0,23
40A	29A	2	2	LS40 E A4	1	0,49
55A	36A	2	2	LS55 E A4	1	0,49



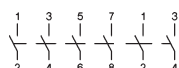
16A	16A	4	1	LS16 E A4B	1	0,24
25A	25A	4	1	LS25 E A4B	1	0,24
32A	32A	4	1	LS32 E A4B	1	0,24
40A	40A	4	1	LS40 E A4B	1	0,52
55A	55A	4	1	LS55 E A4B	1	0,52



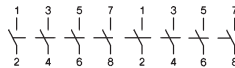
16A	16A	4	1	LS16 E A4O	1	0,24
25A	25A	4	1	LS25 E A4O	1	0,24
32A	32A	4	1	LS32 E A4O	1	0,24
40A	40A	4	1	LS40 E A4O	1	0,52
55A	55A	4	1	LS55 E A4O	1	0,52



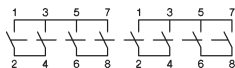
16A	16A	4	1	LS16 E A4U	1	0,24
25A	25A	4	1	LS25 E A4U	1	0,24
32A	32A	4	1	LS32 E A4U	1	0,24
40A	40A	4	1	LS40 E A4U	1	0,52
55A	55A	4	1	LS55 E A4U	1	0,52



16A	10A	2	3	LS16 E A6	1	0,36
25A	11,5A	2	3	LS25 E A6	1	0,36
32A	13A	2	3	LS32 E A6	1	0,36
40A	29A	2	3	LS40 E A6	1	-
55A	36A	2	3	LS55 E A6	1	-



16A	10A	2	4	LS16 E A8	1	0,41
25A	11,5A	2	4	LS25 E A8	1	0,41
32A	13A	2	4	LS32 E A8	1	0,41
40A	29A	2	4	LS40 E A8	1	-
55A	36A	2	4	LS55 E A8	1	-



29A	29A	4	1	LS16 E A4+2	1	0,46
45A	45A	4	1	LS25 E A4+2	1	0,46
58A	58A	4	1	LS32 E A4+2	1	0,46
72A	72A	4	1	LS40 E A4+2	1	-
85A	85A	4	1	LS55 E A4+2	1	-



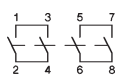
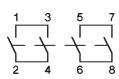

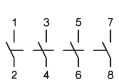
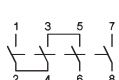
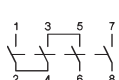
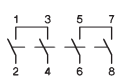
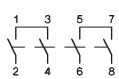
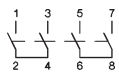
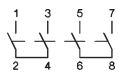

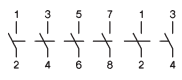
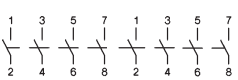
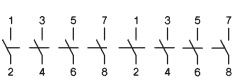
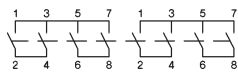
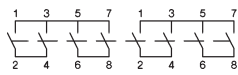
Verlängerte Schalterwelle für Schalter für Fronteinbau

Typenzusatz

+VW"x"

x = Paneelstärke

Ein-Aus-Schalter, Zentralbefestigung Ø22mm, Schild 48□, Schutzart IP66, Typ 4X

	DC21B / DC-PV1 600V DC 1000V DC	Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.		
							10A	11,5A	13A
		16A	10A	2	1	LS16 Z A2	1	0,21
		25A	11,5A	2	1	LS25 Z A2	1	0,21
		32A	13A	2	1	LS32 Z A2	1	0,21
		29A	10A	2	1	LS16 Z A2+2	1	0,26
		36A	11,5A	2	1	LS25 Z A2+2	1	0,26
		55A	13A	2	1	LS32 Z A2+2	1	0,26
		16A	10A	2	2	LS16 Z A4	1	0,23
		25A	11,5A	2	2	LS25 Z A4	1	0,23
		32A	13A	2	2	LS32 Z A4	1	0,23
		16A	16A	4	1	LS16 Z A4B	1	0,25
		25A	25A	4	1	LS25 Z A4B	1	0,25
		32A	32A	4	1	LS32 Z A4B	1	0,25
		16A	16A	4	1	LS16 Z A4O	1	0,25
		25A	25A	4	1	LS25 Z A4O	1	0,25
		32A	32A	4	1	LS32 Z A4O	1	0,25
		16A	16A	4	1	LS16 Z A4U	1	0,25
		25A	25A	4	1	LS25 Z A4U	1	0,25
		32A	32A	4	1	LS32 Z A4U	1	0,25
		16A	10A	2	3	LS16 Z A6	1	0,38
		25A	11,5A	2	3	LS25 Z A6	1	0,38
		32A	13A	2	3	LS32 Z A6	1	0,38
		16A	10A	2	4	LS16 Z A8	1	0,43
		25A	11,5A	2	4	LS25 Z A8	1	0,43
		32A	13A	2	4	LS32 Z A8	1	0,43
		29A	29A	4	1	LS16 Z A4+2	1	0,48
		45A	45A	4	1	LS25 Z A4+2	1	0,48
		58A	58A	4	1	LS32 Z A4+2	1	0,48

Ein-Aus-Schalter, Zentralbefestigung Ø22mm, ohne Schild, Schutzart IP66, Typ 4X



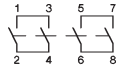
bei Type „Z“ durch „ZO“ ersetzen **LS.. ZO A.**

Ein-Aus-Schalter, Bodenmontage, Türkupplung für Zentralbefestigung, Schild 64□, IP66,   Typ 4X

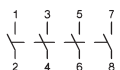


DC21B / DC-PV1 600V DC 1000V DC	Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
16A 10A	2	1	LS16 VZV A2	1	0,22
25A 11,5A	2	1	LS25 VZV A2	1	0,22
32A 13A	2	1	LS32 VZV A2	1	0,22
40A 29A	2	1	LS40 VZV A2	1	0,51
55A 36A	2	1	LS55 VZV A2	1	0,51

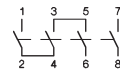
Einbautiefe einstellbar



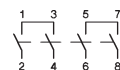
29A 10A	2	1	LS16 VZV A2+2	1	0,27
36A 11,5A	2	1	LS25 VZV A2+2	1	0,27
55A 13A	2	1	LS32 VZV A2+2	1	0,27
68A 29A	2	1	LS40 VZV A2+2	1	0,55
85A 36A	2	1	LS55 VZV A2+2	1	0,55



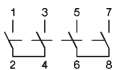
16A 10A	2	2	LS16 VZV A4	1	0,25
25A 11,5A	2	2	LS25 VZV A4	1	0,25
32A 13A	2	2	LS32 VZV A4	1	0,25
40A 29A	2	2	LS40 VZV A4	1	0,56
55A 36A	2	2	LS55 VZV A4	1	0,56



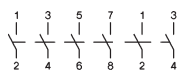
16A 16A	4	1	LS16 VZV A4B	1	0,26
25A 25A	4	1	LS25 VZV A4B	1	0,26
32A 32A	4	1	LS32 VZV A4B	1	0,26
40A 40A	4	1	LS40 VZV A4B	1	0,58
55A 55A	4	1	LS55 VZV A4B	1	0,58



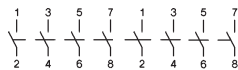
16A 16A	4	1	LS16 VZV A4O	1	0,26
25A 25A	4	1	LS25 VZV A4O	1	0,26
32A 32A	4	1	LS32 VZV A4O	1	0,26
40A 40A	4	1	LS40 VZV A4O	1	0,58
55A 55A	4	1	LS55 VZV A4O	1	0,58



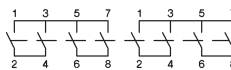
16A 16A	4	1	LS16 VZV A4U	1	0,26
25A 25A	4	1	LS25 VZV A4U	1	0,26
32A 32A	4	1	LS32 VZV A4U	1	0,26
40A 40A	4	1	LS40 VZV A4U	1	0,58
55A 55A	4	1	LS55 VZV A4U	1	0,58



16A 10A	2	3	LS16 VZV A6	1	0,38
25A 11,5A	2	3	LS25 VZV A6	1	0,38
32A 13A	2	3	LS32 VZV A6	1	0,38
40A 29A	2	3	LS40 VZV A6	1	-
55A 36A	2	3	LS55 VZV A6	1	-



16A 10A	2	4	LS16 VZV A8	1	0,43
25A 11,5A	2	4	LS25 VZV A8	1	0,43
32A 13A	2	4	LS32 VZV A8	1	0,43
40A 29A	2	4	LS40 VZV A8	1	-
55A 36A	2	4	LS55 VZV A8	1	-

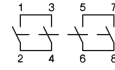


29A 29A	4	1	LS16 VZV A4+2	1	0,48
45A 45A	4	1	LS25 VZV A4+2	1	0,48
58A 58A	4	1	LS32 VZV A4+2	1	0,48
72A 72A	4	1	LS40 VZV A4+2	1	-
85A 85A	4	1	LS55 VZV A4+2	1	-

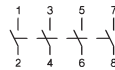
Ein-Aus-Schalter, Reiheneinbau, Schutzart IP40, Typ 1



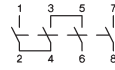
DDC21B / DC-PV1 600V DC 1000V DC		Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
16A	10A	2	1	LS16 SMA A2	1	0,19
25A	11,5A	2	1	LS25 SMA A2	1	0,19
32A	13A	2	1	LS32 SMA A2	1	0,19
40A	29A	2	1	LS40 SMA A2	1	0,41
55A	36A	2	1	LS55 SMA A2	1	0,41



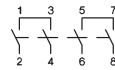
29A	10A	2	1	LS16 SMA A2+2	1	0,24
36A	11,5A	2	1	LS25 SMA A2+2	1	0,24
55A	13A	2	1	LS32 SMA A2+2	1	0,24
68A	29A	2	1	LS40 SMA A2+2	1	0,52
85A	36A	2	1	LS55 SMA A2+2	1	0,52



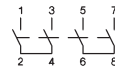
16A	10A	2	2	LS16 SMA A4	1	0,22
25A	11,5A	2	2	LS25 SMA A4	1	0,22
32A	13A	2	2	LS32 SMA A4	1	0,22
40A	29A	2	2	LS40 SMA A4	1	0,45
55A	36A	2	2	LS55 SMA A4	1	0,45



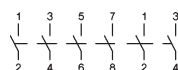
16A	16A	4	1	LS16 SMA A4B	1	0,23
25A	25A	4	1	LS25 SMA A4B	1	0,23
32A	32A	4	1	LS32 SMA A4B	1	0,23
40A	40A	4	1	LS40 SMA A4B	1	0,49
55A	55A	4	1	LS55 SMA A4B	1	0,49



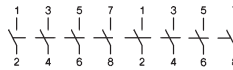
16A	16A	4	1	LS16 SMA A4O	1	0,23
25A	25A	4	1	LS25 SMA A4O	1	0,23
32A	32A	4	1	LS32 SMA A4O	1	0,23
40A	40A	4	1	LS40 SMA A4O	1	0,49
55A	55A	4	1	LS55 SMA A4O	1	0,49



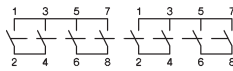
16A	16A	4	1	LS16 SMA A4U	1	0,23
25A	25A	4	1	LS25 SMA A4U	1	0,23
32A	32A	4	1	LS32 SMA A4U	1	0,23
40A	40A	4	1	LS40 SMA A4U	1	0,49
55A	55A	4	1	LS55 SMA A4U	1	0,49



16A	10A	2	3	LS16 SMA A6	1	0,35
25A	11,5A	2	3	LS25 SMA A6	1	0,35
32A	13A	2	3	LS32 SMA A6	1	0,35
40A	29A	2	3	LS40 SMA A6	1	-
55A	36A	2	3	LS55 SMA A6	1	-



16A	10A	2	4	LS16 SMA A8	1	0,40
25A	11,5A	2	4	LS25 SMA A8	1	0,40
32A	13A	2	4	LS32 SMA A8	1	0,40
40A	29A	2	4	LS40 SMA A8	1	-
55A	36A	2	4	LS55 SMA A8	1	-



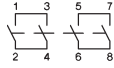
29A	29A	4	1	LS16 SMA A4+2	1	0,43
45A	45A	4	1	LS25 SMA A4+2	1	0,43
58A	58A	4	1	LS32 SMA A4+2	1	0,43
72A	72A	4	1	LS40 SMA A4+2	1	-
85A	85A	4	1	LS55 SMA A4+2	1	-

Hauptschalter, Fronteinbau m. Vierlochbefestigung, Schild 64□, Schutzart IP66, Typ 4X

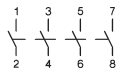


DC21B / DC-PV1		Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
600V DC	1000V DC					
16A	10A	2	1	LS16 EH4 A2	1	0,21
25A	11,5A	2	1	LS25 EH4 A2	1	0,21
32A	13A	2	1	LS32 EH4 A2	1	0,21
40A	29A	2	1	LS40 EH4 A2	1	0,43
55A	36A	2	1	LS55 EH4 A2	1	0,43

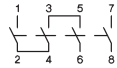
Sperrvorrichtung SV4



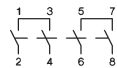
29A	10A	2	1	LS16 EH4 A2+2	1	0,26
36A	11,5A	2	1	LS25 EH4 A2+2	1	0,26
55A	13A	2	1	LS32 EH4 A2+2	1	0,26
68A	29A	2	1	LS40 EH4 A2+2	1	0,57
85A	36A	2	1	LS55 EH4 A2+2	1	0,57



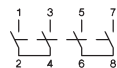
16A	10A	2	2	LS16 EH4 A4	1	0,24
25A	11,5A	2	2	LS25 EH4 A4	1	0,24
32A	13A	2	2	LS32 EH4 A4	1	0,24
40A	29A	2	2	LS40 EH4 A4	1	0,50
55A	36A	2	2	LS55 EH4 A4	1	0,50



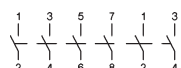
16A	16A	4	1	LS16 EH4 A4B	1	0,25
25A	25A	4	1	LS25 EH4 A4B	1	0,25
32A	32A	4	1	LS32 EH4 A4B	1	0,25
40A	40A	4	1	LS40 EH4 A4B	1	0,53
55A	55A	4	1	LS55 EH4 A4B	1	0,53



16A	16A	4	1	LS16 EH4 A4O	1	0,25
25A	25A	4	1	LS25 EH4 A4O	1	0,25
32A	32A	4	1	LS32 EH4 A4O	1	0,25
40A	40A	4	1	LS40 EH4 A4O	1	0,53
55A	55A	4	1	LS55 EH4 A4O	1	0,53



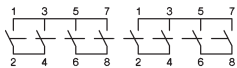
16A	16A	4	1	LS16 EH4 A4U	1	0,25
25A	25A	4	1	LS25 EH4 A4U	1	0,25
32A	32A	4	1	LS32 EH4 A4U	1	0,25
40A	40A	4	1	LS40 EH4 A4U	1	0,53
55A	55A	4	1	LS55 EH4 A4U	1	0,53



16A	10A	2	3	LS16 EH4 A6	1	0,37
25A	11,5A	2	3	LS25 EH4 A6	1	0,37
32A	13A	2	3	LS32 EH4 A6	1	0,37
40A	29A	2	3	LS40 EH4 A6	1	0,53
55A	36A	2	3	LS55 EH4 A6	1	0,53



16A	10A	2	4	LS16 EH4 A8	1	0,42
25A	11,5A	2	4	LS25 EH4 A8	1	0,42
32A	13A	2	4	LS32 EH4 A8	1	0,42
40A	29A	2	4	LS40 EH4 A8	1	-
55A	36A	2	4	LS55 EH4 A8	1	-



29A	29A	4	1	LS16 EH4 A4+2	1	0,47
45A	45A	4	1	LS25 EH4 A4+2	1	0,47
58A	58A	4	1	LS32 EH4 A4+2	1	0,47
72A	72A	4	1	LS40 EH4 A4+2	1	-
85A	85A	4	1	LS55 EH4 A4+2	1	-

Verlängerte Schalterwelle für Schalter für Fronteinbau

Typenzusatz

+VW"x"

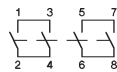
x = Paneelstärke

Hauptschalter, Zentralbefestigung Ø22mm, Schild 48□, Schutzart IP66, Typ 4X

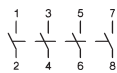


DC21B / DC-PV1 600V DC 1000V DC	Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
16A 10A	2	1	LS16 ZH1 A2	1	0,21
25A 11,5A	2	1	LS25 ZH1 A2	1	0,21
32A 13A	2	1	LS32 ZH1 A2	1	0,21

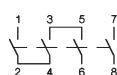
Sperrvorrichtung SV1



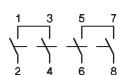
29A 10A	2	1	LS16 ZH1 A2+2	1	0,27
36A 11,5A	2	1	LS25 ZH1 A2+2	1	0,27
55A 13A	2	1	LS32 ZH1 A2+2	1	0,27



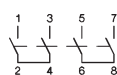
16A 10A	2	2	LS16 ZH1 A4	1	0,24
25A 11,5A	2	2	LS25 ZH1 A4	1	0,24
32A 13A	2	2	LS32 ZH1 A4	1	0,24



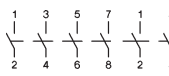
16A 16A	4	1	LS16 ZH1 A4B	1	0,25
25A 25A	4	1	LS25 ZH1 A4B	1	0,25
32A 32A	4	1	LS32 ZH1 A4B	1	0,25



16A 16A	4	1	LS16 ZH1 A4O	1	0,25
25A 25A	4	1	LS25 ZH1 A4O	1	0,25
32A 32A	4	1	LS32 ZH1 A4O	1	0,25



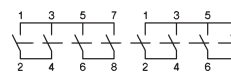
16A 16A	4	1	LS16 ZH1 A4U	1	0,25
25A 25A	4	1	LS25 ZH1 A4U	1	0,25
32A 32A	4	1	LS32 ZH1 A4U	1	0,25



16A 10A	2	3	LS16 ZH1 A6	1	0,39
25A 11,5A	2	3	LS25 ZH1 A6	1	0,39
32A 13A	2	3	LS32 ZH1 A6	1	0,39



16A 10A	2	4	LS16 ZH1 A8	1	0,44
25A 11,5A	2	4	LS25 ZH1 A8	1	0,44
32A 13A	2	4	LS32 ZH1 A8	1	0,44



29A 29A	4	1	LS16 ZH1 A4+2	1	0,49
45A 45A	4	1	LS25 ZH1 A4+2	1	0,49
58A 58A	4	1	LS32 ZH1 A4+2	1	0,49

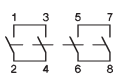
Hauptschalter, Zentralbefestigung Ø22mm, ohne Schild, Schutzart IP66, Typ 3R

bei Type „ZH1“ durch „ZOH1“ ersetzen **LS.. ZOH1 A.**

Hauptschalter, Bodenmontage, Türkupplung für Zentralbefestigung, Schild 64[□], Schutzart IP66, Typ 4X



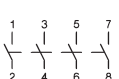
DC21B / DC-PV1 600V DC 1000V DC	Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
16A 10A	2	1	LS16 VZVH4 A2	1	0,23
25A 11,5A	2	1	LS25 VZVH4 A2	1	0,23
32A 13A	2	1	LS32 VZVH4 A2	1	0,23
40A 29A	2	1	LS40 VZVH4 A2	1	0,51
55A 36A	2	1	LS55 VZVH4 A2	1	0,51



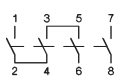
29A 10A	2	1	LS16 VZVH4 A2+2	1	0,28
36A 11,5A	2	1	LS25 VZVH4 A2+2	1	0,28
55A 13A	2	1	LS32 VZVH4 A2+2	1	0,28
68A 29A	2	1	LS40 VZVH4 A2+2	1	0,65
85A 36A	2	1	LS55 VZVH4 A2+2	1	0,65

Einbautiefe einstellbar

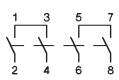
Sperrvorrichtung SV4



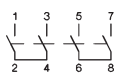
16A 10A	2	2	LS16 VZVH4 A4	1	0,26
25A 11,5A	2	2	LS25 VZVH4 A4	1	0,26
32A 13A	2	2	LS32 VZVH4 A4	1	0,26
40A 29A	2	2	LS40 VZVH4 A4	1	0,58
55A 36A	2	2	LS55 VZVH4 A4	1	0,58



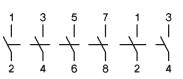
16A 16A	4	1	LS16 VZVH4 A4B	1	0,27
25A 25A	4	1	LS25 VZVH4 A4B	1	0,27
32A 32A	4	1	LS32 VZVH4 A4B	1	0,27
40A 40A	4	1	LS40 VZVH4 A4B	1	0,62
55A 55A	4	1	LS55 VZVH4 A4B	1	0,62



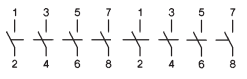
16A 16A	4	1	LS16 VZVH4 A4O	1	0,27
25A 25A	4	1	LS25 VZVH4 A4O	1	0,27
32A 32A	4	1	LS32 VZVH4 A4O	1	0,27
40A 40A	4	1	LS40 VZVH4 A4O	1	0,62
55A 55A	4	1	LS55 VZVH4 A4O	1	0,62



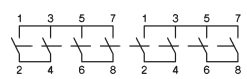
16A 16A	4	1	LS16 VZVH4 A4U	1	0,27
25A 25A	4	1	LS25 VZVH4 A4U	1	0,27
32A 32A	4	1	LS32 VZVH4 A4U	1	0,27
40A 40A	4	1	LS40 VZVH4 A4U	1	0,62
55A 55A	4	1	LS55 VZVH4 A4U	1	0,62



16A 10A	2	3	LS16 VZVH4 A6	1	0,39
25A 11,5A	2	3	LS25 VZVH4 A6	1	0,39
32A 13A	2	3	LS32 VZVH4 A6	1	0,39
40A 29A	2	3	LS40 VZVH4 A6	1	-
55A 36A	2	3	LS55 VZVH4 A6	1	-



16A 10A	2	4	LS16 VZVH4 A8	1	0,44
25A 11,5A	2	4	LS25 VZVH4 A8	1	0,44
32A 13A	2	4	LS32 VZVH4 A8	1	0,44
40A 29A	2	4	LS40 VZVH4 A8	1	-
55A 36A	2	4	LS55 VZVH4 A8	1	-



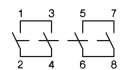
29A 29A	4	1	LS16 VZVH4 A4+2	1	0,49
45A 45A	4	1	LS25 VZVH4 A4+2	1	0,49
58A 58A	4	1	LS32 VZVH4 A4+2	1	0,49
72A 72A	4	1	LS40 VZVH4 A4+2	1	-
85A 85A	4	1	LS55 VZVH4 A4+2	1	-

Hauptschalter, Reiheneinbau, versperbar, Schutzart IP40, Typ 1

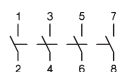


DC21B / DC-PV1		Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
600V DC	1000V DC					
16A	10A	2	1	LS16 SMAH1 A2	1	0,19
25A	11,5A	2	1	LS25 SMAH1 A2	1	0,19
32A	13A	2	1	LS32 SMAH1 A2	1	0,19
40A	29A	2	1	LS40 SMAH1 A2	1	0,40
55A	36A	2	1	LS55 SMAH1 A2	1	0,40

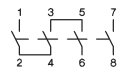
Sperrvorrichtung SV1



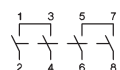
29A	10A	2	1	LS16 SMAH1 A2+2 ¹⁾	1	0,25
36A	11,5A	2	1	LS25 SMAH1 A2+2 ¹⁾	1	0,25
55A	13A	2	1	LS32 SMAH1 A2+2 ¹⁾	1	0,25
68A	29A	2	1	LS40 SMAH1 A2+2	1	0,54
85A	36A	2	1	LS55 SMAH1 A2+2	1	0,54



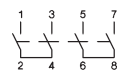
16A	10A	2	2	LS16 SMAH1 A4 ¹⁾	1	0,22
25A	11,5A	2	2	LS25 SMAH1 A4 ¹⁾	1	0,22
32A	13A	2	2	LS32 SMAH1 A4 ¹⁾	1	0,22
40A	29A	2	2	LS40 SMAH1 A4	1	0,47
55A	36A	2	2	LS55 SMAH1 A4	1	0,47



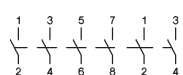
16A	16A	4	1	LS16 SMAH1 A4B ¹⁾	1	0,23
25A	25A	4	1	LS25 SMAH1 A4B ¹⁾	1	0,23
32A	32A	4	1	LS32 SMAH1 A4B ¹⁾	1	0,23
40A	40A	4	1	LS40 SMAH1 A4B	1	0,50
55A	55A	4	1	LS55 SMAH1 A4B	1	0,50



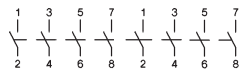
16A	16A	4	1	LS16 SMAH1 A40 ¹⁾	1	0,23
25A	25A	4	1	LS25 SMAH1 A40 ¹⁾	1	0,23
32A	32A	4	1	LS32 SMAH1 A40 ¹⁾	1	0,23
40A	40A	4	1	LS40 SMAH1 A4B	1	0,50
55A	55A	4	1	LS55 SMAH1 A4B	1	0,50



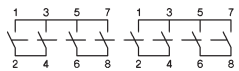
16A	16A	4	1	LS16 SMAH1 A4U ¹⁾	1	0,23
25A	25A	4	1	LS25 SMAH1 A4U ¹⁾	1	0,23
32A	32A	4	1	LS32 SMAH1 A4U ¹⁾	1	0,23
40A	40A	4	1	LS40 SMAH1 A4B	1	0,50
55A	55A	4	1	LS55 SMAH1 A4B	1	0,50



16A	10A	2	3	LS16 SMAH1 A6	1	0,36
25A	11,5A	2	3	LS25 SMAH1 A6	1	0,36
32A	13A	2	3	LS32 SMAH1 A6	1	0,36
40A	29A	2	3	LS40 SMAH1 A6	1	-
55A	36A	2	3	LS55 SMAH1 A6	1	-



16A	10A	2	4	LS16 SMAH1 A8	1	0,41
25A	11,5A	2	4	LS25 SMAH1 A8	1	0,41
32A	13A	2	4	LS32 SMAH1 A8	1	0,41
40A	29A	2	4	LS32 SMAH1 A8	1	-
55A	36A	2	4	LS32 SMAH1 A8	1	-



29A	29A	4	1	LS16 SMAH1 A4+2	1	0,46
45A	45A	4	1	LS25 SMAH1 A4+2	1	0,46
58A	58A	4	1	LS32 SMAH1 A4+2	1	0,46
72A	72A	4	1	LS40 SMAH1 A4+2	1	-
85A	85A	4	1	LS55 SMAH1 A4+2	1	-










¹⁾ Hauptschalter, Reiheneinbau mit niedrigem Griff, versperbar, Schutzart IP40,   Typ 1

Typ mit Typenzusatz „+SV1N“ z.B.: **LS.. SMAH1 A2+2 +SV1N**

Hauptschalter, isolierstoffgekapstelt, Schild 64□, Schutzart IP66, Type 4X ¹⁾



Sperrvorrichtung SV4

DC21B / DC-PV1 600V DC 1000V DC		Anzahl Pole in Serie	Anzahl Strings	Typ	VPE Stk.	Gewicht kg/Stk.
	16A 10A	2	1	LS16 PFLH4 A2 ¹⁾	1	0,43
	25A 11,5A	2	1	LS25 PFLH4 A2 ¹⁾	1	0,43
	32A 13A	2	1	LS32 PFLH4 A2 ¹⁾	1	0,43
	40A 29A	2	1	LS40 PFLH4 A2	1	1,59
	55A 36A	2	1	LS55 PFLH4 A2	1	1,59
	29A 10A	2	1	LS16 PFLH4 A2+2 ¹⁾	1	0,49
	36A 11,5A	2	1	LS25 PFLH4 A2+2 ¹⁾	1	0,49
	55A 13A	2	1	LS32 PFLH4 A2+2 ¹⁾	1	0,49
	68A 29A	2	1	LS40 PFLH4 A2+2	1	1,74
	85A 36A	2	1	LS55 PFLH4 A2+2	1	1,74
	16A 10A	2	2	LS16 PFLH4 A4 ¹⁾	1	0,46
	25A 11,5A	2	2	LS25 PFLH4 A4 ¹⁾	1	0,46
	32A 13A	2	2	LS32 PFLH4 A4 ¹⁾	1	0,46
	40A 29A	2	2	LS40 PFLH4 A4	1	1,67
	55A 36A	2	2	LS55 PFLH4 A4	1	1,67
	16A 16A	4	1	LS16 PFLH4 A4B ¹⁾	1	0,47
	25A 25A	4	1	LS25 PFLH4 A4B ¹⁾	1	0,47
	32A 32A	4	1	LS32 PFLH4 A4B ¹⁾	1	0,47
	40A 40A	4	1	LS40 PFLH4 A4B	1	1,70
	55A 55A	4	1	LS55 PFLH4 A4B	1	1,70
	16A 16A	4	1	LS16 PFLH4 A4O ¹⁾	1	0,47
	25A 25A	4	1	LS25 PFLH4 A4O ¹⁾	1	0,47
	32A 32A	4	1	LS32 PFLH4 A4O ¹⁾	1	0,47
	40A 40A	4	1	LS40 PFLH4 A4O	1	1,70
	55A 55A	4	1	LS55 PFLH4 A4O	1	1,70
	16A 16A	4	1	LS16 PFLH4 A4U ¹⁾	1	0,47
	25A 25A	4	1	LS25 PFLH4 A4U ¹⁾	1	0,47
	32A 32A	4	1	LS32 PFLH4 A4U ¹⁾	1	0,47
	40A 40A	4	1	LS40 PFLH4 A4U	1	1,70
	55A 55A	4	1	LS55 PFLH4 A4U	1	1,70
	16A 10A	2	3	LS16 PFLH4 A6	1	1,53
	25A 11,5A	2	3	LS25 PFLH4 A6	1	1,53
	32A 13A	2	3	LS32 PFLH4 A6	1	1,53
	40A 29A	2	3	LS40 PFLH4 A6	1	1,87
	55A 36A	2	3	LS55 PFLH4 A6	1	1,87
	16A 10A	2	4	LS16 PFLH4 A8	1	1,58
	25A 11,5A	2	4	LS25 PFLH4 A8	1	1,58
	32A 13A	2	4	LS32 PFLH4 A8	1	1,58
	40A 29A	2	4	LS40 PFLH4 A8	1	1,94
	55A 36A	2	4	LS55 PFLH4 A8	1	1,94
	29A 29A	4	1	LS16 PFLH4 A4+2	1	1,63
	45A 45A	4	1	LS25 PFLH4 A4+2	1	1,63
	58A 58A	4	1	LS32 PFLH4 A4+2	1	1,63
	72A 72A	4	1	LS40 PFLH4 A4+2	1	2,07
	85A 85A	4	1	LS55 PFLH4 A4+2	1	2,07

1) Gehäuse mit Gewinde, Typenzusatz: +M25

Technische Daten

Stromart	Gebrauchskategorie		Typische Anwendungsfälle	Prüfungsbedingungen für Elektrische Lebensdauer (Normale Beanspruchung)						Prüfungsbedingungen für Ein- und Ausschaltvermögen (Beanspruchung im Störungfall)					
				Einschalten			Ausschalten			Einschalten			Ausschalten		
				I/le	U/le	L/R	Ic/le	Ur/le	L/R	I/le	U/le	L/R	Ic/le	Ur/le	L/R
Gleichstrom	DC21A häufige Betätigung	DC21B gelegentl. Betätigung	Schalten von ohmscher Last einschließlich geringer Überlast.	1	1	1ms	1	1	1ms	1,5	1,05	1ms	1,5	1,05	1ms
	DC22A häufige Betätigung	DC22B gelegentl. Betätigung	Schalten von gemischter ohmscher und induktiver Last einschließl. geringer Überlast.	1	1	2ms	1	1	2ms	4	1,05	2,5ms	4	1,05	2,5ms
	DC-PV1		Schalten eines einzelnen PV String(s) ohne Rück- und Überströme.	1	1	1ms	1	1	1ms	1,5	1,05	1ms	1,5	1,05	1ms
	DC-PV2		Schalten von mehreren PV Strings mit Rück- und Überströmen.	1	1	1ms	1	1	1ms	4	1,05	1ms	4	1,05	1ms

Daten nach IEC 60947-3, VDE 0660, GB14048.3 (CCC China)




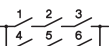
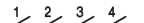
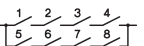
Hauptkontakte		Typ	LS16	LS25	LS32	LS40	LS55	
Thermischer Bemessungsbetriebsstrom I _{th}		A	16	25	32	40	55	
Bemessungsisolationsspannung U _i 1)		V	1000	1000	1000	1500	1500	
Bemessungsisolationsspannung U _i 2)		V	1500	1500	1500	1500	1500	
Kontaktabstand (pro Pol)		mm	8	8	8			
Bemessungsbetriebsstrom I_e	300V	A	16	23	27	40	55	
	400V	A	12	14	16	30	40	
DC21A und DC21B	A1	A	9	11	13	19	25	
		A	6	8	10	15	20	
		A	4,5	6	7,5	10	15	
		A	3	4	5	8	10	
DC21B	800V	A	2,5	3	4	6	8	
	900V	A	1,5	2	2,5	4	6	
	2 Pole in Serie	A	16	25	32	40	55	
	A2	A	16	25	32	40	55	
		A	16	23	27	35	55	
		A	16	20	21	30	45	
		A	-	-	25	-	-	
		A	13	16	18	25	35	
		A	9	11	13	20	36	
		A	6	8	10	10	15	
	A	3	4	5	6	7,5		
2 Pole in Serie + 2 Pole parallel A2+2	500V	A	29	45	58	72	85	
	600V	A	29	45	50	64	80	
	700V	A	16	23	27	35	55	
	800V	A	16	20	21	30	45	
	900V	A	13	16	18	25	35	
	1000V	A	9	11	13	20	25	
	1200V	A	6	8	10	10	15	
	1500V	A	3	4	5	6	7,5	
	3 Pole in Serie + 2 Pole parallel A3+2	500V	A	29	45	58	72	85
		600V	A	29	45	50	72	85
700V		A	29	38	45	72	85	
800V		A	29	38	45	68	85	
900V		A	29	38	45	62	78	
1000V		A	29	38	45	58	70	
1200V		A	12	14	16	-	-	
1500V		A	9	11	13	-	-	
4 Pole in Serie A4	500V	A	16	25	32	40	55	
	600V	A	16	25	32	40	55	
	700V	A	16	25	32	40	55	
	800V	A	16	25	32	40	55	
	900V	A	16	25	32	40	55	
	1000V	A	16	25	32	40	55	
	1200V	A	16	25	32	40	55	
	1500V	A	16	20	23	30	40	
	4 Pole in Serie + 2 Pole parallel A4+2	500V	A	29	45	58	72	85
		600V	A	29	45	58	72	85
700V		A	29	45	58	72	85	
800V		A	29	45	58	72	85	
900V		A	29	45	58	72	85	
1000V		A	29	45	58	72	85	
1200V		A	29	45	50	56	65	
1500V		A	16	20	23	42	55	
Bemessungsbetriebsstrom I_e	AC21B							
	A2, A4	U _e max. 440V	A	16	25	32	40	55
	A2+2	U _e max. 440V	A	29	45	58	72	85

1) Gilt für: Überspannungskategorie I bis III, Verschmutzungsgrad 3 (Norm-Industrie): Uimp = 8kV.

2) Gilt für: Überspannungskategorie I bis III, Verschmutzungsgrad 2 (min. IP55): Uimp = 8kV.




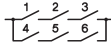

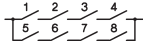
Technische Daten

Daten nach IEC 60947-3, VDE 0660

Hauptkontakte		Type	LS16	LS25	LS32	LS40	LS55	
Bemessungsbetriebsstrom I_e DC-PV1	1 Pol	300V	A	16	23	27	40	55
		400V	A	14	22	25	33	44
	A1 	500V	A	10	17	20	24	32
		600V	A	7	12	15	19	25
		700V	A	5	6	7	12	18
		800V	A	3	4	5	10	13
		900V	A	3	3	4	8	10
		1000V	A	2	2	3	5	8
		2 Pole in Serie A2 	500V	A	16	25	32	40	55
	600V		A	16	25	32	40	55
	700V		A	16	25	32	37	55
	800V		A	16	19	21	35	55
	900V		A	16	17	18	31	43
	1000V		A	10	11,5	13	29	36
	1100V		A	8	10	11,5	19	25
	1200V		A	7	8,5	10	11	17
	1300V		A	6	7	8	10	14
	1400V		A	5	6	7	9	12
1500V	A		3	5	6	7,5	10	
2 Pole in Serie + 2 Pole parallel A2+2 	500V	A	29	45	58	72	85	
	600V	A	29	36	55	68	85	
	700V	A	22	27	32	49	77	
	800V	A	17	19	21	42	63	
	900V	A	16	17	18	31	43	
	1000V	A	10	11,5	13	29	36	
	1100V	A	8	10	11,5	19	25	
	1200V	A	7	8,5	10	11	17	
	1300V	A	6	7	8	10	14	
	1400V	A	5	6	7	9	12	
	1500V	A	3	5	6	7,5	10	
3 Pole in Serie + 2 Pole parallel A3+2 	500V	A	29	45	58	72	85	
	600V	A	29	45	58	72	85	
	700V	A	29	43	55	72	85	
	800V	A	29	40	51	68	85	
	900V	A	29	38	47	62	78	
	1000V	A	29	38	45	58	70	
	1100V	A	19	27	37	-	-	
	1200V	A	17	25	28	-	-	
	1300V	A	15	21	25	-	-	
	1400V	A	12	18	22	-	-	
	1500V	A	10	14	20	-	-	
4 Pole in Serie A4 	500V	A	16	25	32	40	55	
	600V	A	16	25	32	40	55	
	700V	A	16	25	32	40	55	
	800V	A	16	25	32	40	55	
	900V	A	16	25	32	40	55	
	1000V	A	16	25	32	40	55	
	1100V	A	16	25	32	40	55	
	1200V	A	16	25	32	40	55	
	1300V	A	16	25	32	40	55	
	1400V	A	16	25	32	40	55	
	1500V	A	16	25	32	40	55	
4 Pole in Serie + 2 Pole parallel A4+2 	500V	A	29	45	58	72	85	
	600V	A	29	45	58	72	85	
	700V	A	29	45	58	72	85	
	800V	A	29	45	58	72	85	
	900V	A	29	45	58	72	85	
	1000V	A	29	45	58	72	85	
	1100V	A	29	45	54	60	68	
	1200V	A	29	45	50	56	65	
	1300V	A	26	39	44	50	61	
	1400V	A	23	33	38	46	58	
	1500V	A	20	26	32	42	55	

Technische Daten

Daten nach IEC 60947-3, VDE 0660

Hauptkontakte		Type	LS16	LS25	LS32	LS40	LS55	
Bemessungsbetriebsstrom I_b DC-PV2	300V	A	16	23	27	40	55	
	400V	A	15	18	20	30	40	
1 pole A1 	500V	A	10	12	14	19	25	
	600V	A	5	6	8	10	13	
	700V	A	1,5	2	3	7	10	
	800V	A	1,5	2	3	6	8	
	900V	A	1	1,5	2,0	5	6	
	1000V	A	1	1,5	2,0	3	4	
	2 poles in series A2 	500V	A	16	25	32	40	55
		600V	A	14	21	27	40	55
700V		A	13	19	22	35	55	
800V		A	12	15	17	33	49	
900V		A	8	10	12	25	35	
1000V		A	4	5	6	16	20	
1100V		A	83	4	5	11	15	
1200V		A	2	3	4	8	12	
1300V		A	1,5	2	3	7	10	
1400V		A	1	2	3	7	9	
1500V	A	1	1,5	2	6	8		
2 poles in series + 2 poles parallel A2+2 	500V	A	25	39	50	72	85	
	600V	A	20	32	35	60	75	
	700V	A	13	19	22	38	60	
	800V	A	12	15	17	33	49	
	900V	A	8	10	12	25	35	
	1000V	A	4	5	6	16	25	
	1100V	A	3	4	5	10	15	
	1200V	A	2	3	4	8	12	
	1300V	A	1,5	2	3	7	10	
	1400V	A	1	2	3	7	9	
	1500V	A	1	1,5	2	6	8	
	3 poles in series + 2 poles parallel A3+2 	500V	A	-	-	-	72	85
		600V	A	-	-	-	72	78
700V		A	-	-	-	62	69	
800V		A	-	-	-	53	61	
900V		A	-	-	-	44	55	
1000V		A	-	-	-	35	50	
1100V		A	-	-	-	-	-	
1200V		A	-	-	-	-	-	
1300V		A	-	-	-	-	-	
1400V		A	-	-	-	-	-	
1500V	A	-	-	-	-	-		
4 poles in series A4 	500V	A	16	25	32	40	55	
	600V	A	16	25	32	40	55	
	700V	A	16	25	32	40	55	
	800V	A	16	25	32	40	55	
	900V	A	16	25	32	40	55	
	1000V	A	16	25	32	40	55	
	1100V	A	15	25	32	40	55	
	1200V	A	13,5	21	27	40	55	
	1300V	A	12	19	24	36	50	
	1400V	A	10,5	16	21	33	45	
	1500V	A	9	14	18	30	40	
	4 poles in series + 2 poles parallel A4+2 	500V	A	-	-	-	72	85
		600V	A	-	-	-	72	85
700V		A	-	-	-	72	80	
800V		A	-	-	-	67	75	
900V		A	-	-	-	59	70	
1000V		A	-	-	-	52	64	
1100V		A	-	-	-	44	59	
1200V		A	-	-	-	40	55	
1300V		A	-	-	-	36	50	
1400V		A	-	-	-	33	45	
1500V		A	-	-	-	30	40	

Schütze, Motorstarter

Leistungsschalter

Motorschutzschalter

Schalter

AC-Hauptschalter



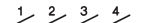
DC-Lasttrennschalter

Befehls- und Meldegeräte

Verteilungen, Bezugsquellen

Technische Daten




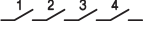
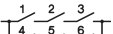
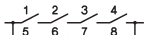


Daten nach IEC 60947-3, VDE 0660

Hauptkontakte		Typ	LS16	LS25	LS32	LS40	LS55
Bemessungsbetriebsstrom I_e DC22B	1 Pol	A	1	1,25	1,5	x	2,5
	A1	A	0,5	0,75	1	x	2,0
		A	0,3	0,4	0,5	x	1,5
	1000V	A	0,15	0,2	0,25	x	1,0
	1200V	A	-	-	-	x	x
	1500V	A	-	-	-	x	x
	2 Pole in Serie	A	7	8	9	x	x
	A2	A	5,5	6	6,5	x	x
		A	2	2,5	3	x	x
	1000V	A	1	1,5	2	x	x
	1200V	A	-	-	-	x	x
	1500V	A	-	-	-	x	x
	4 Pole in Serie	A	16	25	32	x	x
	A4	A	16	25	27,5	x	x
		A	11,5	12	12,5	x	x
	1000V	A	8	9	10	x	x
	1200V	A	-	-	-	x	x
	1500V	A	-	-	-	x	x
Bedingter Bemessungskurzschlußstrom		kA _{eff}	5	5	5	10	10
Maximale Vorsicherung	gL (gG)	A	40	63	80	125	160
Mechanische Lebensdauer		x10 ³	10	10	10	10	10
Bemessungskurzzeitstromfestigkeit (1s)	I _{CW}	A2, A4, A6, A8	800	900	1000	A2, A4: 1200	A2, A4: 1400
		A2+2, A3+2, A4+2	1300	1500	1700	A2+2: 2000	A2+2: 2400
Bemessungskurzschluß-einschaltvermögen	I _{CM}	A2, A4, A6, A8	800	900	1000	A2, A4: 1200	A2, A4: 1400
		A2+2, A3+2, A4+2	1300	1500	1700	A2+2: 2000	A2+2: 2400
Anschlußquerschnitte (inkl. Verbinder)	ein- oder mehrdrähtig	mm ²	LSV-B1 4 - 16	LSV-B1 4 - 16	LSV-B1 4 - 16	LSV-B2 2,5 - 25	LSV-B2 2,5 - 25
	feindrähtig	mm ²	4 - 10	4 - 10	4 - 10	2,5 - 16	2,5 - 16
	feindrähtig (+ Aderendhülse)	mm ²	4 - 10	4 - 10	4 - 10	1,5 - 16	1,5 - 16
Klemmschraube		Nm	M4 Pz2	M4 Pz2	M4 Pz2	M5 Pz2	M5 Pz2
Anzugsdrehmoment		Nm	1,7 - 1,8	1,7 - 1,8	1,7 - 1,8	2,5 - 2,8	2,5 - 2,8
2 Leiter pro Klemme ohne Verbinder LSV-B1 / LSV-B2							
ein- oder mehrdrähtig	mm ²		16+(1,5-2,5) / 10+(1,5-6) / 6+(1,5-10) / 4+(1,5-10)			16+(1,5-2,5) / 10+(1,5-10) / 6+(1,5-10) / 4+(1,5-10)	
feindrähtig & feindrähtig + Aderendhülse	mm ²		16+(1,5-2,5) / 10+(1,5-4) / 6+(1,5-6)			16+(1,5-6) / 10+(1,5-10) / 6+(1,5-16) / 4+(1,5-16)	
stranded	AWG		8+(16-12) / 10+(16-10) / 12+(16-8) 14+(16-8)			3+(18-10) / 4+(18-10) / 6+(18-8) 8+(18-8)	
solid	AWG		10+(16-12) / 12+(16-10) 14+(16-10)			10+(16-10) / 12+(16-10) / 14+(16-10) 12+(16-10) / 14+(16-10)	
Zulässige Umgebungstemperatur							
Betrieb	offen	°C				-40 to +65	
	gekapselt	°C				-40 to +45	
Lagerung		°C				-50 to +90	
Verlustleistung pro Schalter bei I _e max.			A	A	A	A	A
A2	(A)/ W	(16)/ 1	(25)/ 2,3	(32)/ 3,7	(40)/ 4	(55)/ 7,5	
A4	(A)/ W	(16)/ 2	(25)/ 4,6	(32)/ 7,4	(40)/ 8	(55)/ 15	
A6	(A)/ W	(16)/ 3	(25)/ 6,9	(32)/ 11,1	(40)/ 12	(55)/ 22,5	
A8	(A)/ W	(16)/ 4	(25)/ 9,2	(32)/ 14,8	(40)/ 16	(55)/ 30	
A2+2	(A)/ W	(29)/ 1,5	(45)/ 3,7	(58)/ 6	(72)/ 6,5	(85)/ 9	
A3+2	(A)/ W	(29)/ 2,3	(45)/ 5,6	(58)/ 9	(72)/ 9,8	(85)/ 14	
A4+2	(A)/ W	(29)/ 3	(45)/ 7,4	(58)/ 12	(72)/ 13	(85)/ 18	
Kontaktwiderstand pro Pol		mΩ	1,75	1,75	1,75	1,25	1,25

x zur Approbation eingereicht







Technische Daten

Daten nach UL5081  File E359344 Category np.: NMSJ, und UL508  File E332938, Category no.: NRNT2, NRNT8

Typ			LS16	LS25	LS32	LS40	LS55	
Ampere-Rating "General use" 1 Pol 	DC							
	350V	A	4	5	6	7,1	10,0	
	500V	A	4	5	6	5,7	7,0	
	600V	A	4	5	6	5,0	5,8	
	700V	A	-	-	-	3,9	5,0	
	800V	A	-	-	-	3,2	4,4	
	900V	A	-	-	-	2,5	3,5	
	1000V	A	-	-	-	1,5	2,0	
	2 Pole in Serie A2 	350V	A	16	20	32	40	55
		500V	A	16	20	32	40	55
600V		A	16	20	32	40	55	
700V		A	-	-	-	32	46	
800V		A	-	-	-	26	37	
900V		A	-	-	-	20	28	
2 Pole in Serie + 2 Pole parallel A2+2 	350V	A	29	45	58	72	85	
	400V	A	-	-	-	67	79	
	500V	A	29	38	40	53	66	
	600V	A	21	23	32	42	55	
	700V	A	-	-	-	35	47	
	800V	A	-	-	-	30	40	
4 Pole in Serie A4 	350V	A	16	25	32	40	55	
	500V	A	16	25	32	40	55	
	600V	A	16	25	32	40	55	
	700V	A	-	-	-	40	55	
	800V	A	-	-	-	40	55	
	900V	A	-	-	-	40	55	
3 Pole in Serie + 2 Pole parallel A3+2 	350V	A	29	45	58	68	71	
	500V	A	29	38	50	56	64	
	600V	A	21	38	45	52	60	
	700V	A	-	-	-	46	57	
	800V	A	-	-	-	40	55	
	900V	A	-	-	-	36	53	
4 Pole in Serie + 2 Pole parallel A4+2 	350V	A	29	45	58	80	85	
	500V	A	29	45	58	71	85	
	600V	A	29	45	50	65	82	
	700V	A	-	-	-	58	76	
	800V	A	-	-	-	51	71	
	900V	A	-	-	-	45	67	
AC-Rating "General use" 2 Pole in Serie  2 Pole in Serie + 2 Pole parallel  3 Pole parallel	600V	A	16	25	32	40	55	
	277V	A	-	-	50	72	85	
	3x480V	A	-	-	32	-	-	
	1000V	A	-	-	-	42	64	
Fuse size (RK5) Industrial Control Switch								
5kA / 600V	A		40	60	80	-	-	
5kA/1000V	A		-	-	-	160	160	
Anschlußquerschnitte (inkl. Verbinder LSV-B1)								
ein- oder mehrdrähtig	AWG		12 - 10	12 - 10	12 - 10	16 - 10	16 - 10	
feindrähtig	AWG		12 - 6	12 - 6	12 - 6	14 - 4	14 - 4	
feindrähtig (+ Aderendhülse)	AWG		12 - 6	12 - 6	12 - 6			
Klemmschraube			M4 Pz2	M4 Pz2	M4 Pz2	M5 Pz2	M5 Pz2	
Anzugsdrehmoment	lb.inch		9 - 16	9 - 16	9 - 16	22 - 25	22 - 25	
Schutzart der Anschlußklemmen ¹⁾			IP20	IP20	IP20	IP20	IP20	

1) Schutzart der Anschlußklemmen mit angeschlossenem, isoliertem Leiter.

Approbationen

Land	USA, UL5081	US, Kanada UL508	Europa	TÜVRheinland	China CCC	CB-Zertifikate	EAC
Type							
LS16	o	o	/	o	o	o	o
LS25	o	o	/	o	o	o	o
LS32	o	o	/	o	o	o	o
LS40	o	o	/	-	-	o	o
LS55	o	o	/	-	-	o	o

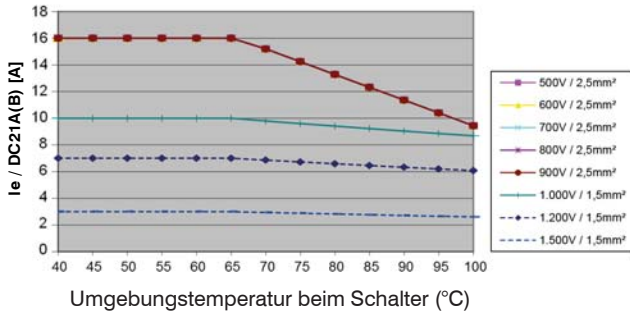
o In Normalausführung approbiert / Approbation nicht erforderlich CE x zur Approbation eingereicht

- bisher nicht zur Approbation vorgesehen

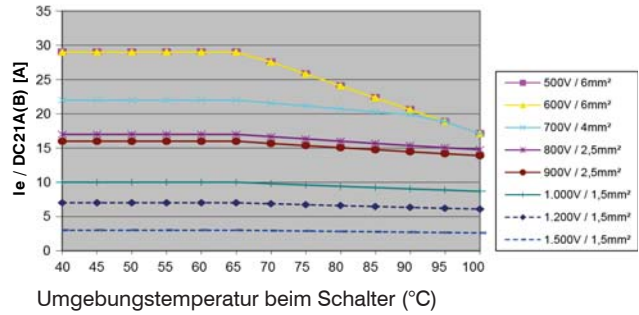
Technische Daten

Maximal zulässiger Strom, abhängig von Umgebungstemperatur und Anschlußquerschnitten

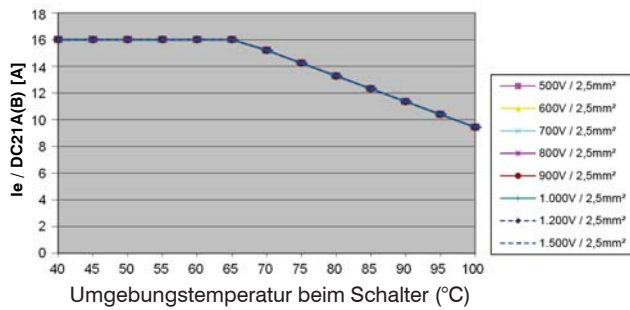
Schalter offen LS16..., 2 Kontakte in Serie (A2)



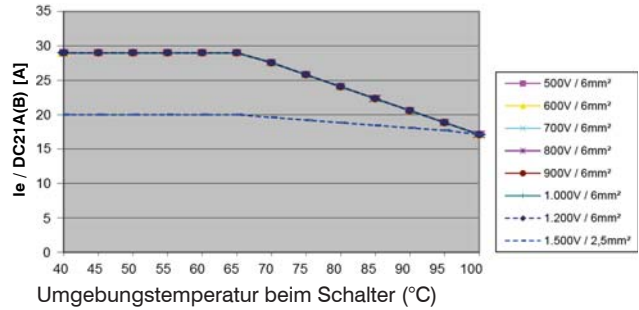
Schalter offen LS16 ..., 2 Kontakte in Serie + 2 parallel (A2+2)



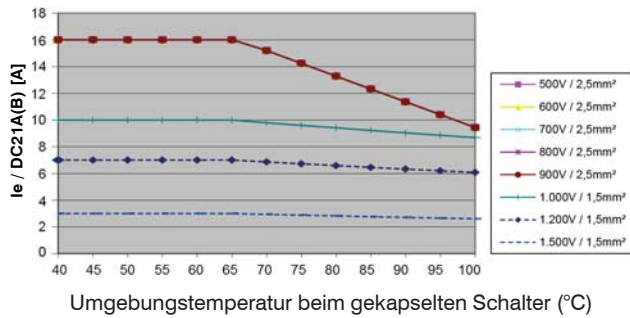
Schalter offen LS16..., 4 Kontakte in Serie (A4x)



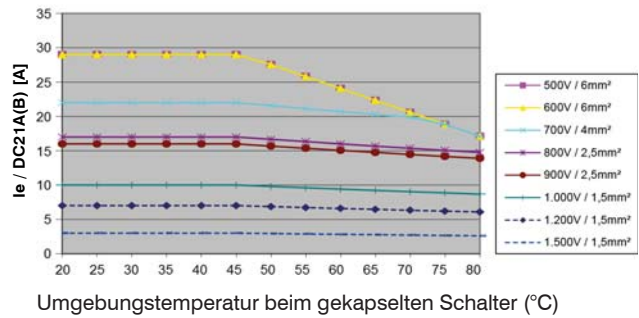
Schalter offen LS16..., 4 Kontakte in Serie + 2 parallel (A4+2)



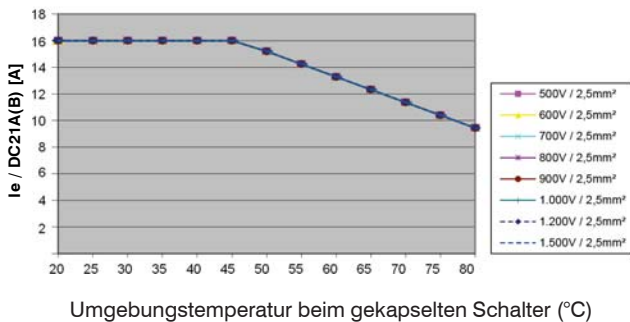
Schalter gekapselt LS16 PFL..., 2 Kontakte in Serie (A2)



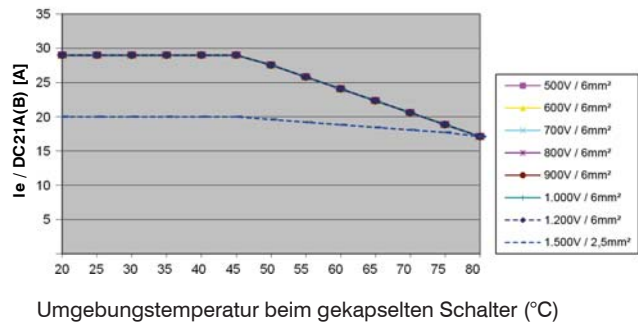
Schalter gekapselt LS16 PFL..., 2 Kontakte in Serie + 2 parallel (A2+2)



Schalter gekapselt LS16 PFL..., 4 Kontakte in Serie (A4x)



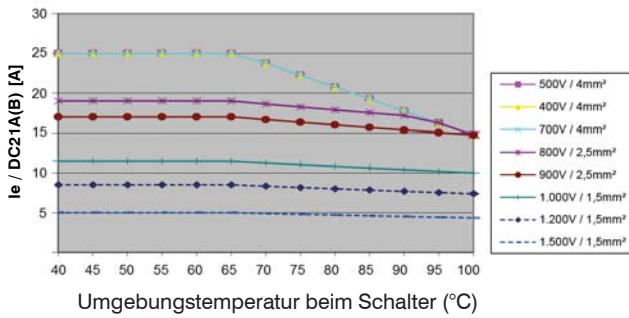
Schalter gekapselt LS16 PFL..., 4 Kontakte in Serie + 2 parallel (A4+2)



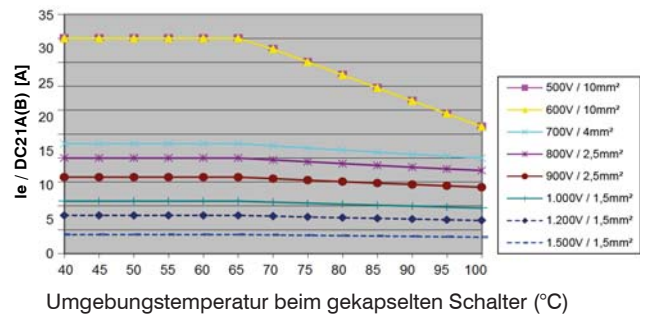
Technische Daten

Maximal zulässiger Strom, abhängig von Umgebungstemperatur und Anschlußquerschnitten

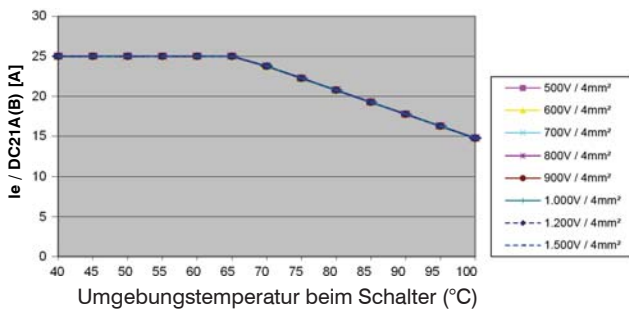
Schalter offen LS25..., 2 Kontakte in Serie (A2)



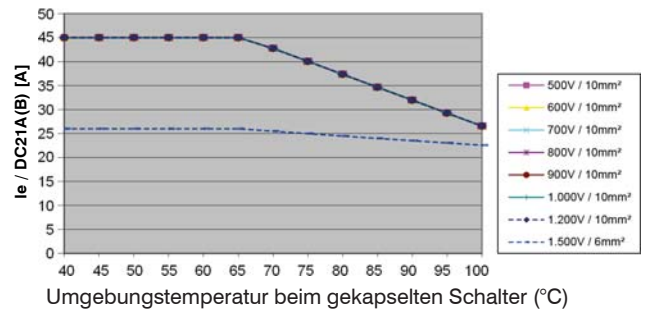
Schalter offen LS25 ..., 2 Kontakte in Serie + 2 parallel (A2+2)



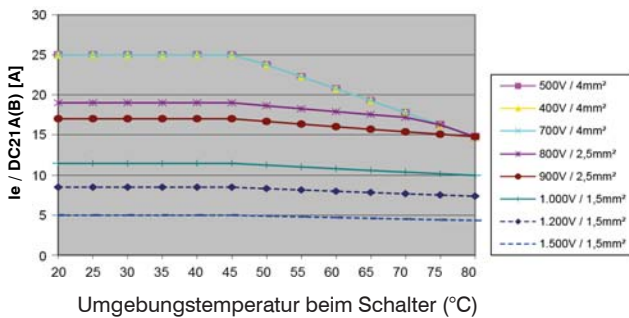
Schalter offen LS25..., 4 Kontakte in Serie (A4x)



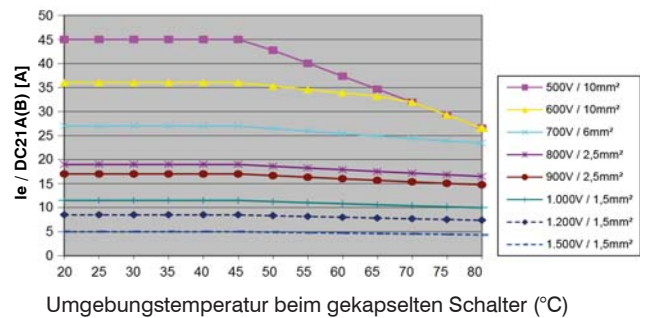
Schalter offen LS25..., 4 Kontakte in Serie + 2 parallel (A4+2)



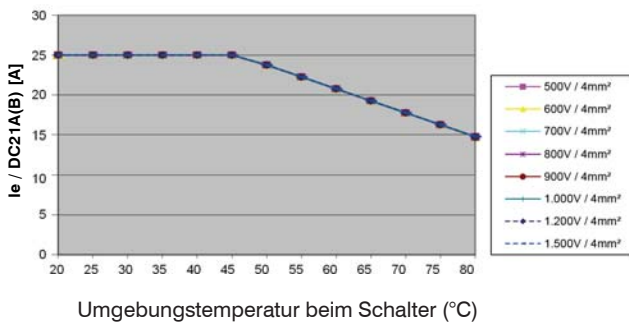
Schalter gekapselt LS25 PFL..., 2 Kontakte in Serie (A2)



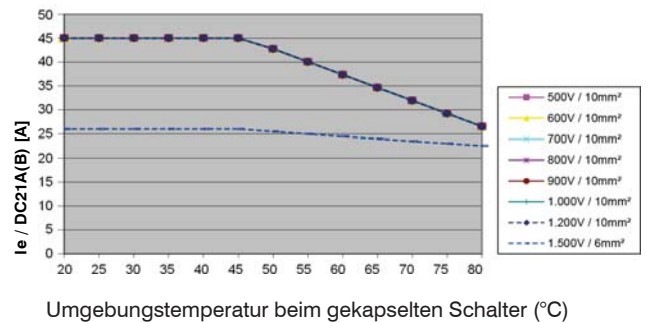
Schalter gekapselt LS25 PFL..., 2 Kontakte in Serie + 2 parallel (A2+2)



Schalter gekapselt LS25 PFL..., 4 Kontakte in Serie (A4x)



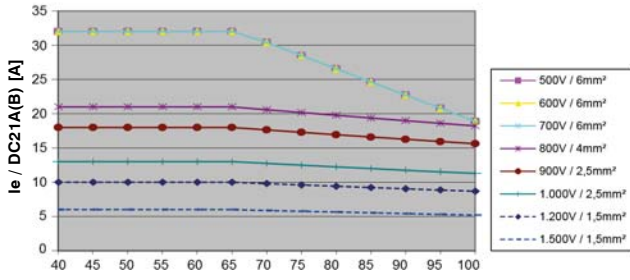
Schalter gekapselt LS25PFL..., 4 Kontakte in Serie + 2 parallel (A4+2)



Technische Daten

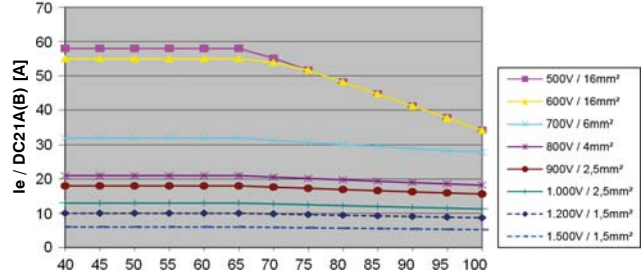
Maximal zulässiger Strom, abhängig von Umgebungstemperatur und Anschlußquerschnitten

Schalter offen LS32..., 2 Kontakte in Serie (A2)



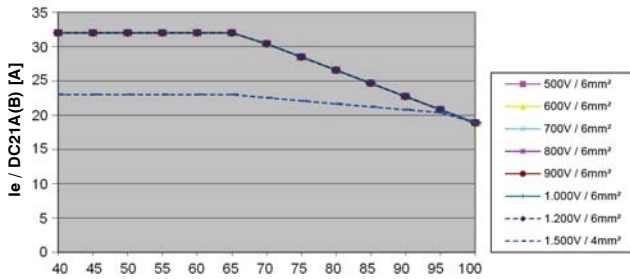
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS32 ..., 2 Kontakte in Serie + 2 parallel (A2+2)



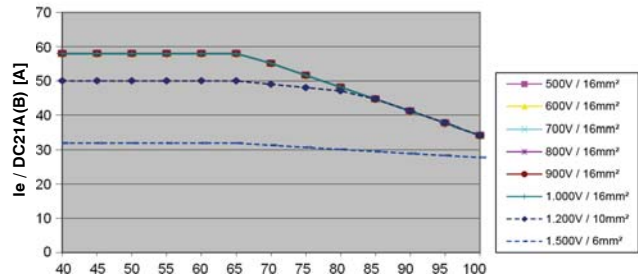
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS32..., 4 Kontakte in Serie (A4x)



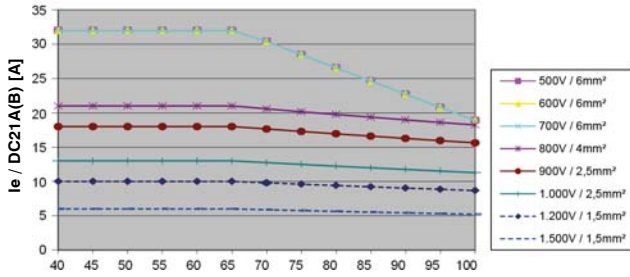
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS32..., 4 Kontakte in Serie + 2 parallel (A4+2)



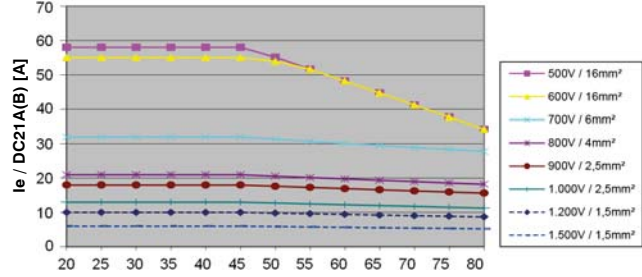
Umgebungstemperatur beim Schalter (°C)

Schalter gekapselt LS32 PFL..., 2 Kontakte in Serie (A2)



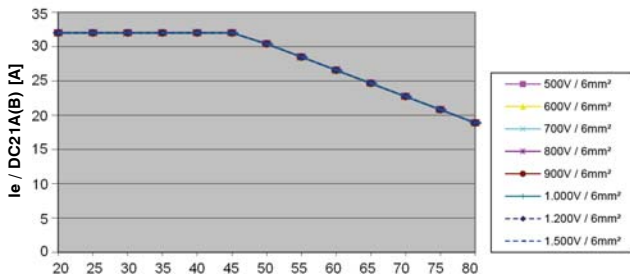
Umgebungstemperatur beim gekapselten Schalter (°C)

Schalter gekapselt LS32 PFL... 2 Kontakte in Serie + 2 parallel (A2+2)



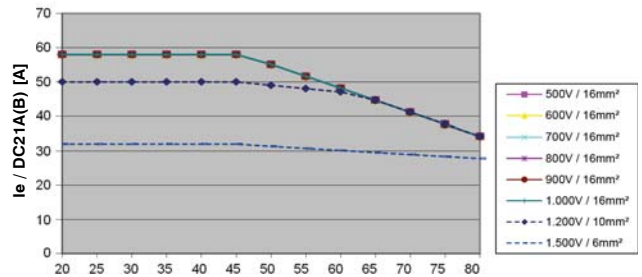
Umgebungstemperatur beim gekapselten Schalter (°C)

Schalter gekapselt LS32 PFL..., 4 Kontakte in Serie (A4x)



Umgebungstemperatur beim gekapselten Schalter (°C)

Schalter gekapselt LS32PFL... 4 Kontakte in Serie + 2 parallel (A4+2)

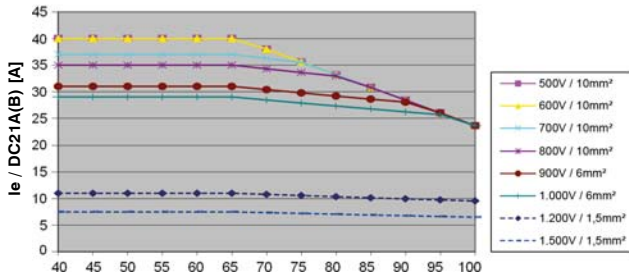


Umgebungstemperatur beim gekapselten Schalter (°C)

Technische Daten

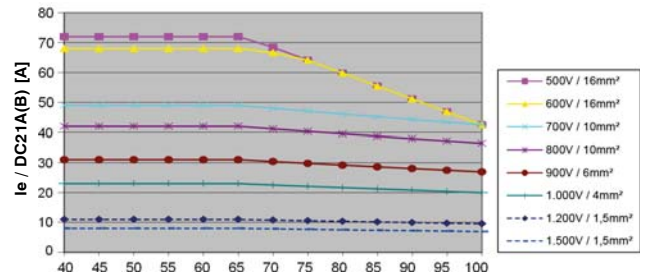
Maximal zulässiger Strom, abhängig von Umgebungstemperatur und Anschlußquerschnitten

Schalter offen LS40..., 2 Kontakte in Serie (A2)



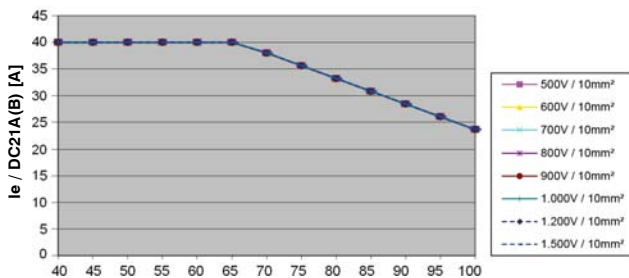
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS40 ..., 2 Kontakte in Serie + 2 parallel (A2+2)



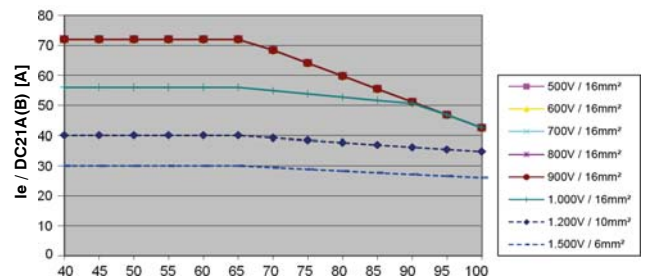
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS40..., 4 Kontakte in Serie (A4x)



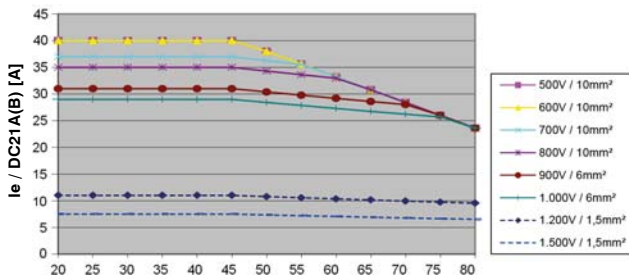
Umgebungstemperatur beim Schalter (°C)

Schalter offen LS32..., 4 Kontakte in Serie + 2 parallel (A4+2)



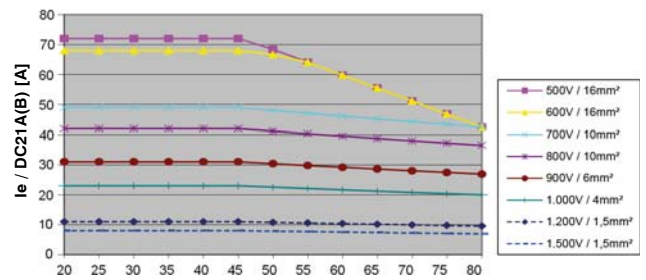
Umgebungstemperatur beim Schalter (°C)

Schalter gekapselt LS40 PFL..., 2 Kontakte in Serie (A2)



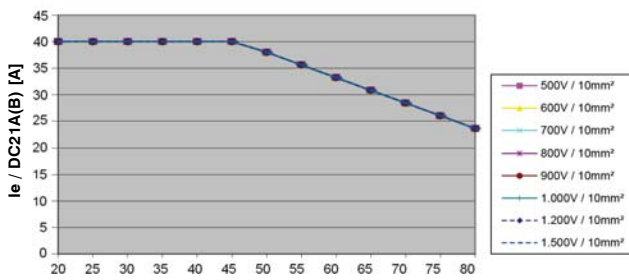
Umgebungstemperatur beim Schalter (°C)

Schalter gekapselt LS40 PFL..., 2 Kontakte in Serie + 2 parallel (A2+2)



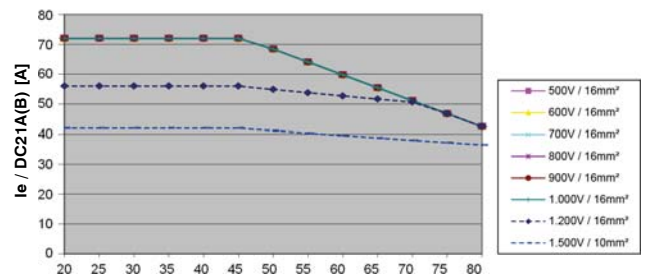
Umgebungstemperatur beim Schalter (°C)

Schalter gekapselt LS40 PFL..., 4 Kontakte in Serie (A4x)



Umgebungstemperatur beim Schalter (°C)

Schalter gekapselt LS40 PFL..., 4 Kontakte in Serie + 2 parallel (A4+2)

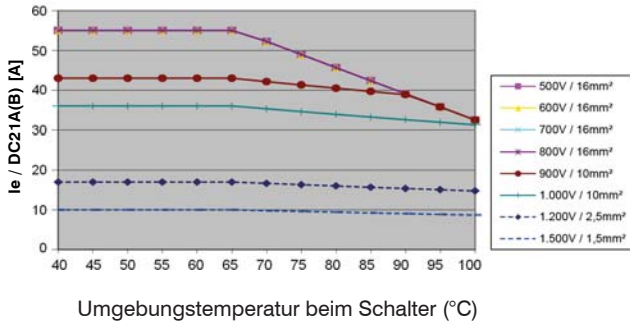


Umgebungstemperatur beim Schalter (°C)

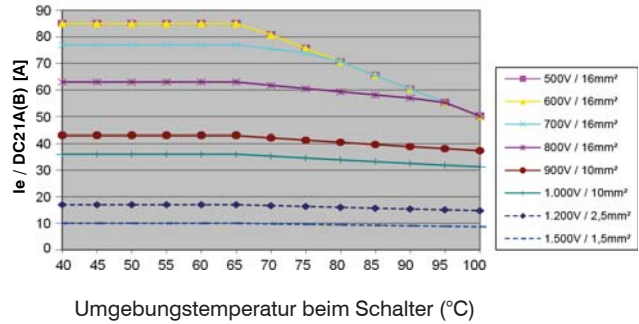
Technische Daten

Maximal zulässiger Strom, abhängig von Umgebungstemperatur und Anschlußquerschnitten

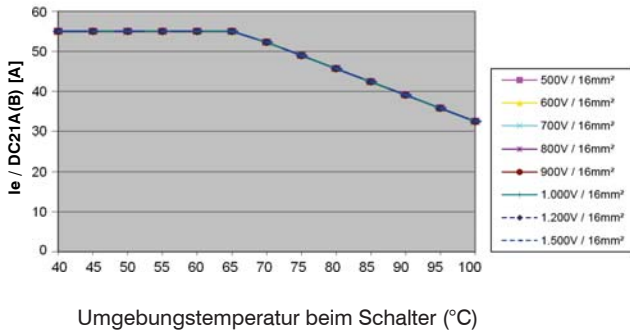
Schalter offen LS55..., 2 Kontakte in Serie (A2)



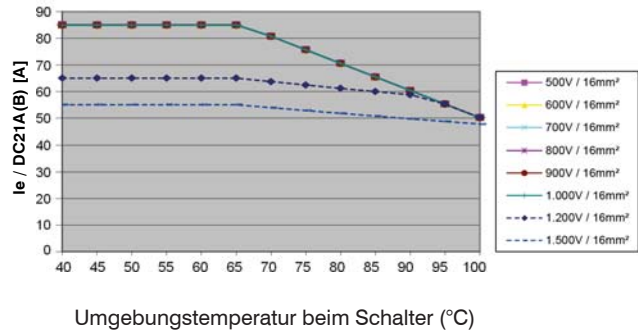
Schalter offen LS55 ..., 2 Kontakte in Serie + 2 parallel (A2+2)



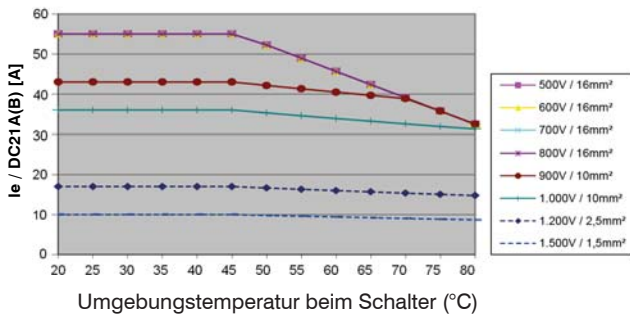
Schalter offen LS55..., 4 Kontakte in Serie (A4x)



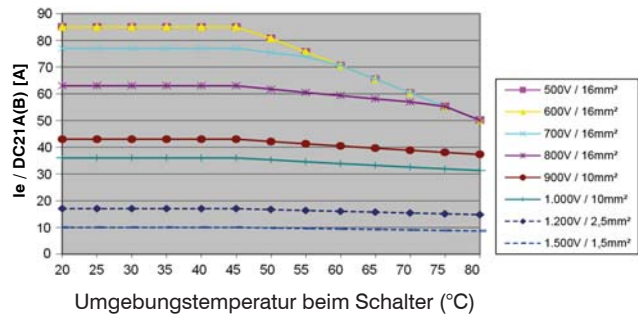
Schalter offen LS55 ..., 4 Kontakte in Serie + 2 parallel (A4+2)



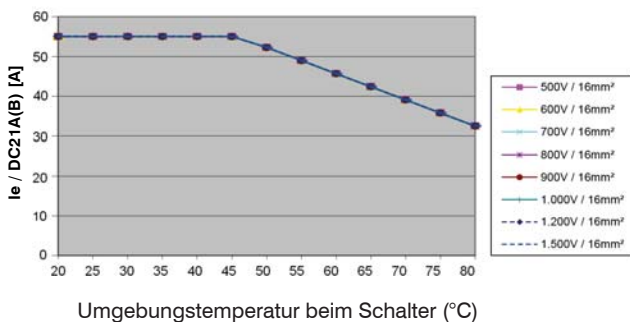
Schalter gekapselt LS55 PFL..., 2 Kontakte in Serie (A2)



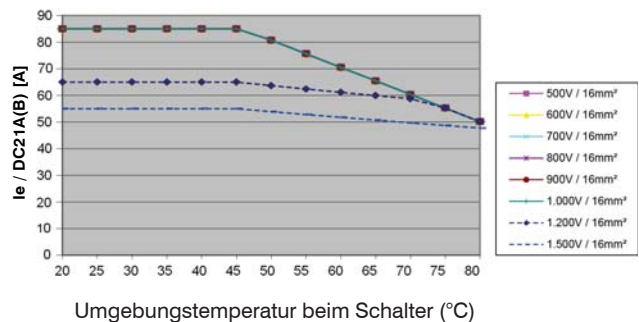
Schalter gekapselt LS55 PFL..., 2 Kontakte in Serie + 2 parallel (A2+2)



Schalter gekapselt LS55 PFL..., 4 Kontakte in Serie (A4x)

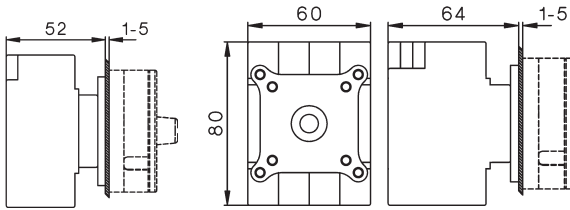


Schalter gekapselt LS55 PFL..., 4 Kontakte in Serie + 2 parallel (A4+2)

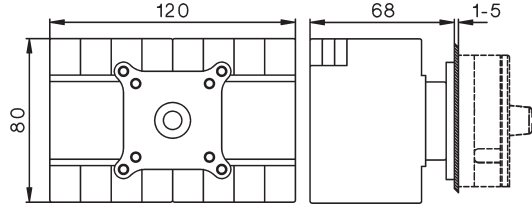


Abmessungen

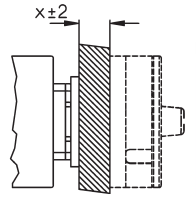
LS16 E.., LS25 E.., LS32 E..,
..A2 ..A2+2, ..A4.



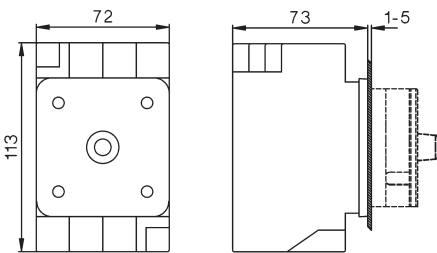
LS16 E.., LS25 E.., LS32 E..,
..A6, ..A8, ..A3+2, ..A4+2



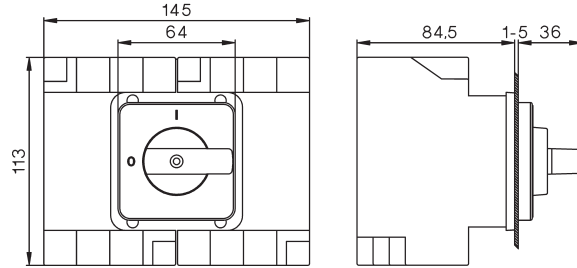
LS... +VW"x"
Verlängerte Schalterwelle



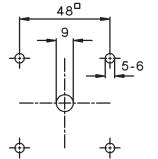
LS40 E.., LS55 E..
..A2, ..A2+2, ..A4.



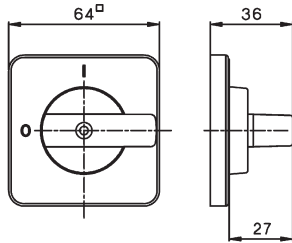
LS40 E.., LS55 E..
..A6, ..A8, ..A3+2, ..A4+2



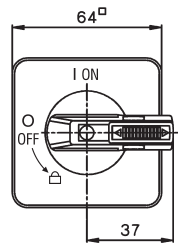
Bohrplan



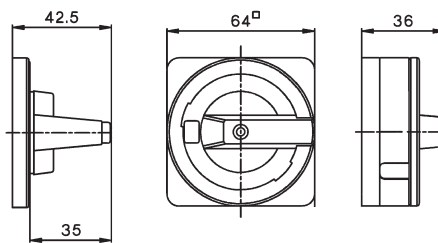
Schild 64[□]
Griff



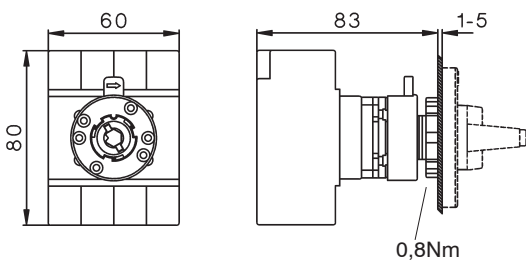
Sperrvorrichtung SV1.



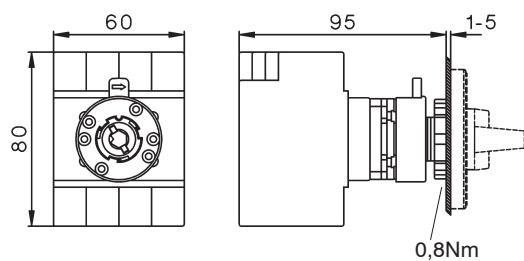
Sperrvorrichtung SV4.



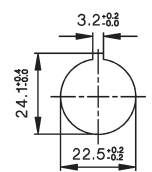
LS16 Z.., LS25 Z.., LS32 Z..,
..A2



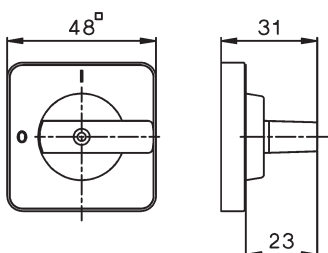
..A2+2, ..A4.



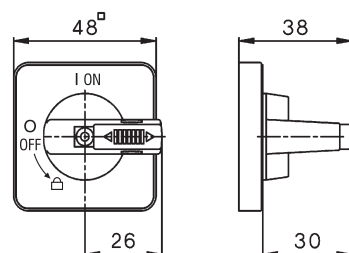
Bohrplan



Schild 48[□]
Griff



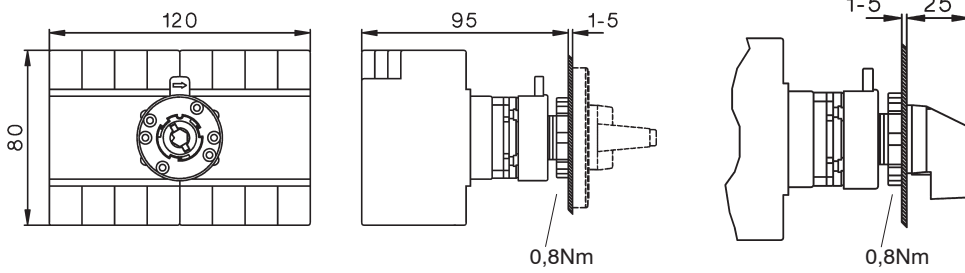
Sperrvorrichtung SV1.



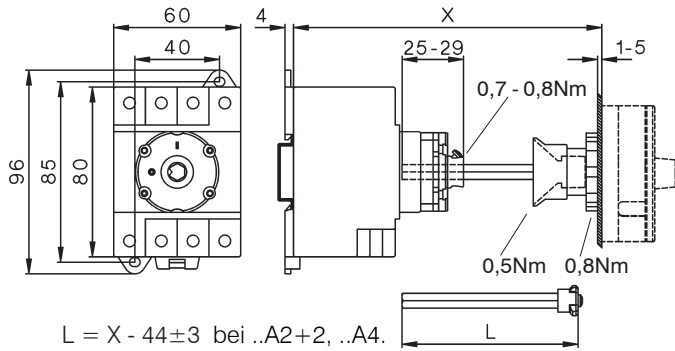
Abmessungen

LS16 Z.., LS25 Z.., LS32 Z..,
..A6, ..A8, ..A3+2, ..A4+2

LS.. ZO..



LS16 VZV.., LS25 VZV.., LS32 VZV..,
..A2, ..A2+2, ..A4



Lieferlänge bei: ..A2+2, ..A4.
 $X_{max} = 194, L = 150$
($X_{min} = 89$)

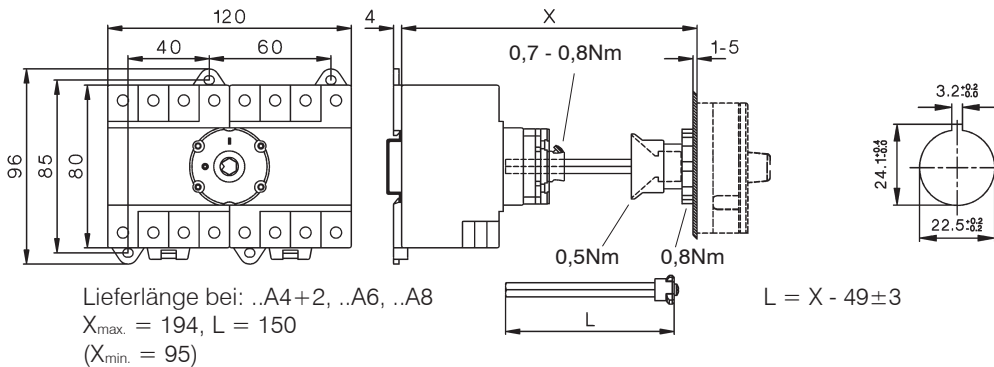
Lieferlänge bei: ..A2
 $X_{max} = 182, L = 150$
($X_{min} = 77$)

größere X-Maße auf Anfrage

$L = X - 44 \pm 3$ bei ..A2+2, ..A4.
 $L = X - 32 \pm 3$ bei ..A2

LS16 VZV.., LS25 VZV.., LS32 VZV..,
..A6, ..A8, ..A3+2, ..A4+2

Bohrplan

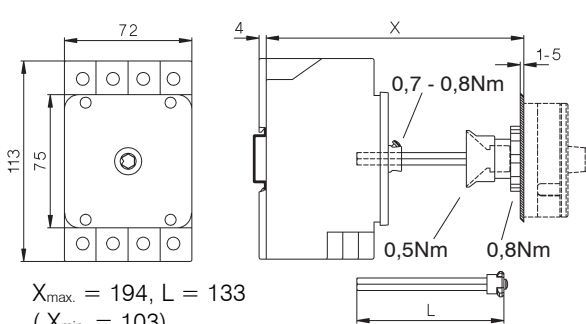


Lieferlänge bei: ..A4+2, ..A6, ..A8
 $X_{max} = 194, L = 150$
($X_{min} = 95$)

$L = X - 49 \pm 3$

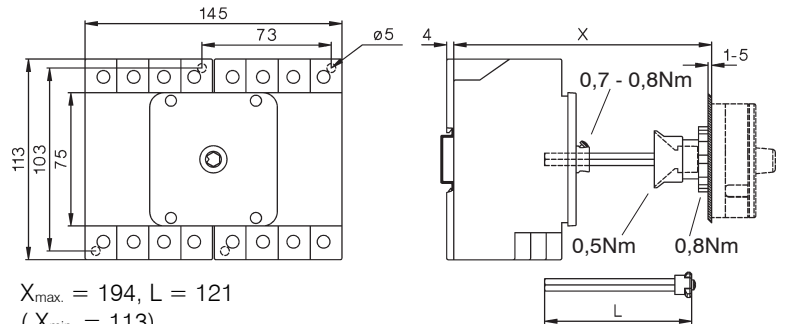
LS40 VZV.., LS55 VZV..
..A2, ..A2+2, ..A4.

LS40 VZV.., LS55 VZV..
..A6, ..A8, ..A3+2, ..A4+2



$X_{max} = 194, L = 133$
($X_{min} = 103$)

$L = X - 61 \pm 3$



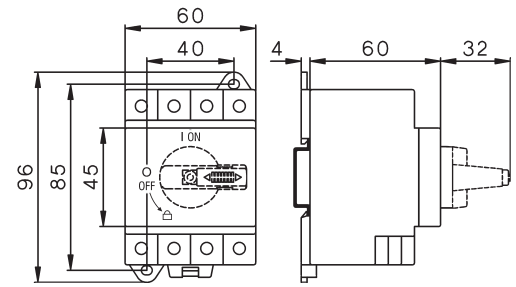
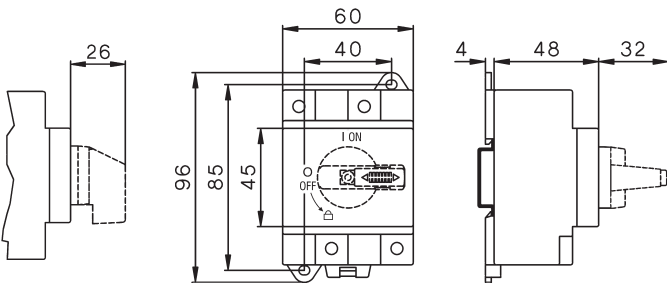
$X_{max} = 194, L = 121$
($X_{min} = 113$)

$L = X - 73 \pm 3$

Abmessungen

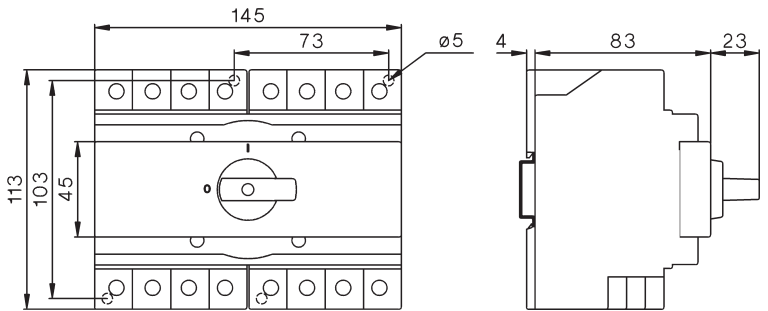
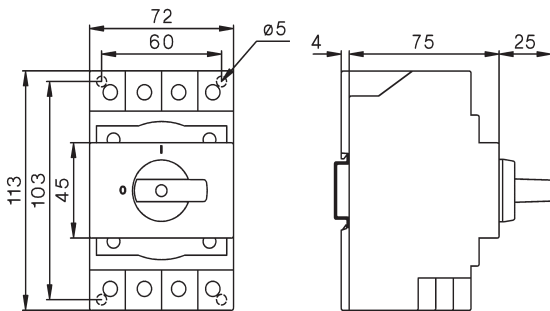
LS16 SMA..., LS25 SMA..., LS32 SMA...,
..A2 ..

A2+2, ..A4.



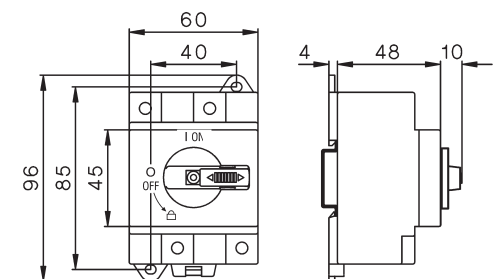
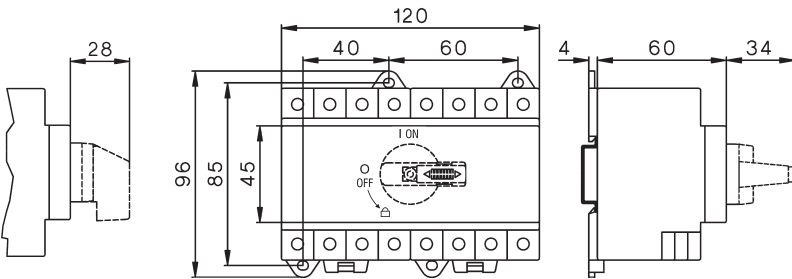
LS40 SMA..., LS55 SMA..
..A2, ..A2+2, ..A4.

LS40 SMA..., LS55 SMA..
..A6, ..A8, ..A3+2, ..A4+2



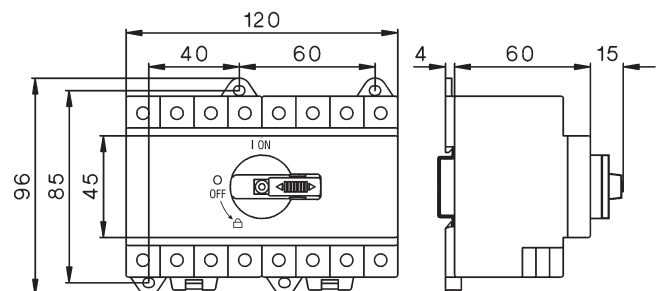
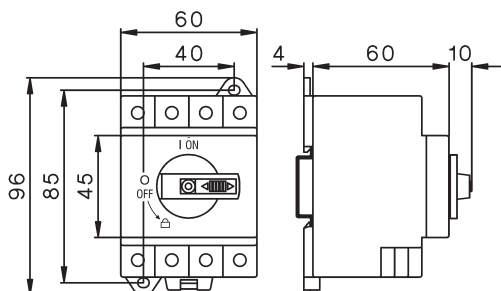
LS16 SMA..., LS25 SMA..., LS32 SMA..
..A6, ..A8, ..A3+2, ..A4+2

LS.. SMAH1.. mit niedrigem Griff
A2+SV1N



LS16 SMAH1..., LS25 SMAH1, LS32 SMAH1 mit niedrigem Griff
A2+2 +SV1N, A4.+SV1N

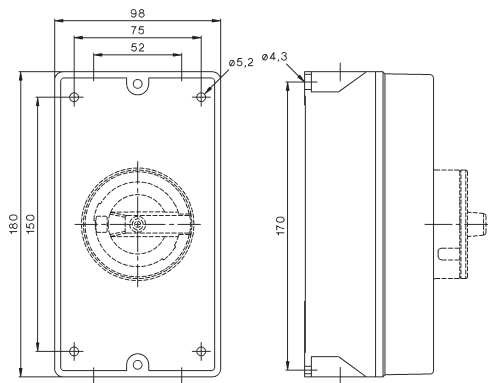
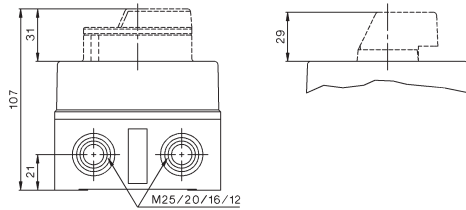
A4+2 +SV1N, A6+SV1N, A8+SV1N



Abmessungen

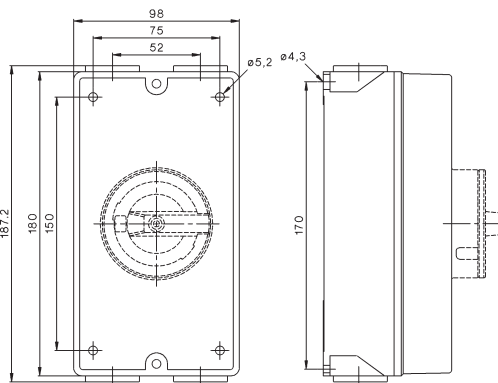
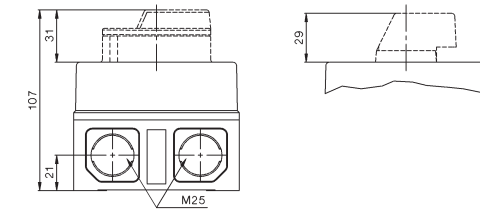
LS16 PFL..., LS25 PFL..., LS32 PFL..
..A2, ..A2+2, ..A4.

Hauptschalter (versperbar)
LS..PFLH4 A..



LS16 PFL..., LS25 PFL..., LS32 PFL..
..A2, ..A2+2, ..A4.
+ M25

Hauptschalter (versperbar)
LS..PFLH4 A..



LS16 PFL..., LS25 PFL..., LS32 PFL..
..A6, ..A8, ..A3+2, ..A4+2
Hauptschalter (versperbar)
LS..PFLH4 A..

LS40 PFL..., LS55 PFL..
..A2, ..A4, ..A6, ..A8, ..A2+2, ..A3+2, ..A4+2

