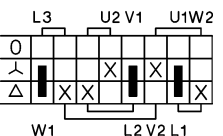
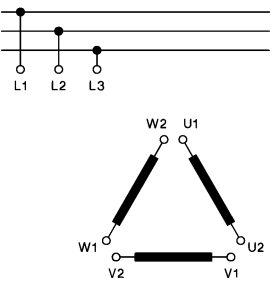
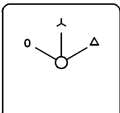
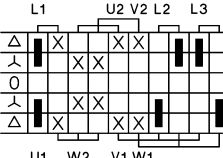
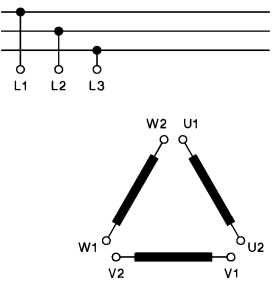
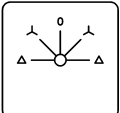

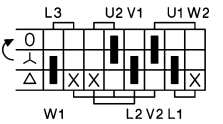
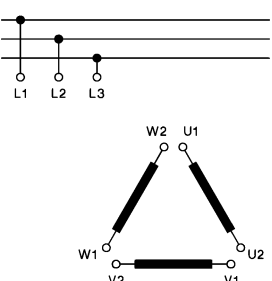
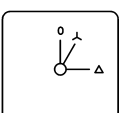
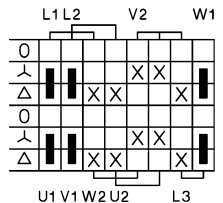
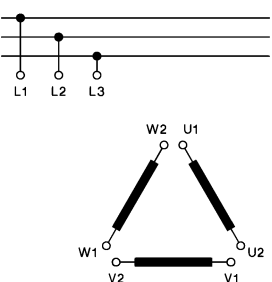
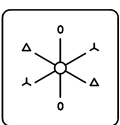
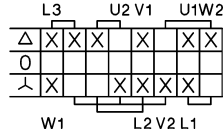
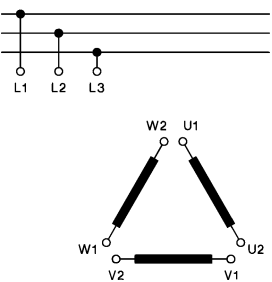
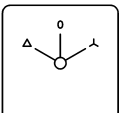


Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
Star-Delta switches SD							
1 rotary direction 		60°	4	48 □ 20A 32A	M10H . x x x x x ¹⁾ - . M20 . x x x x - - .	. SD . SD	
				64 □ 32A 50A	N20 . x - x - x x . N33F . x - x - x - .	. SD . SD	
				88 □ 63A 80A 115A	N40 . x - x - x - . N60 . x - x - x - . N80 . x - x - - - .	. SD . SD . SD	
				132 □ 150A 250A	N100 . x - x - - - . N200 . x - x - - - .	. SD . SD	
both rotary directions 		45°	5	48 □ 20A 32A	M10H . x x x x x ¹⁾ - . M20 . x x x x - - .	. SDR . SDR	
				64 □ 32A 50A	N20 . x - x - x x . N33F . x - x - x - .	. SDR . SDR	
				88 □ 63A 80A 115A	N40 . x - x - x - . N60 . x - x - x - . N80 . x - x - - - .	. SDR . SDR . SDR	
				132 □ 150A 250A	N100 . x - x - - - . N200 . x - x - - - .	. SDR . SDR	
1 rotary direction spring return from  to off 		°	4	48 □ 20A 32A	M10H . x x x x x ¹⁾ - . M20 . x x x x - - .	. SRD . SRD	
				64 □ 32A 50A	N20 . x - x - x x . N33F . x - x - x - .	. SRD . SRD	
				88 □ 63A 80A 115A	N40 . x - x - x - . N60 . x - x - x - . N80 . x - x - - - .	. SRD . SRD . SRD	
				132 □ 150A 250A	N100 . x - x - - - . N200 . x - x - - - .	. SRD . SRD	
1 rotary direction with clockwise operation and backswitch interlock 		60°	5	48 □ 20A 32A	M10H . x x x x x ¹⁾ - . M20 . x x x x - - .	. SDRU . SDRU	
				64 □ 32A 50A	N20 . x - x - x x . N33F . x - x - x - .	. SDRU . SDRU	
				88 □ 63A 80A 115A	N40 . x - x - x - . N60 . x - x - x - . N80 . x - x - - - .	. SDRU . SDRU . SDRU	
				132 □ 150A 250A	N100 . x - x - - - . N200 . x - x - - - .	. SDRU . SDRU	
Star-Delta selector switch 		60°	4	48 □ 20A 32A	M10H . x x x x x ¹⁾ - . M20 . x x x x - - .	. SDU . SDU	
				64 □ 32A 50A	N20 . x - x - x x . N33F . x - x - x - .	. SDU . SDU	
				88 □ 63A 80A 115A	N40 . x - x - x - . N60 . x - x - x - . N80 . x - x - - - .	. SDU . SDU . SDU	
				132 □ 150A 250A	N100 . x - x - - - . N200 . x - x - - - .	. SDU . SDU	

Ordering example: AC21 32A cast enclosed, star-delta selector switch

N20 G SDU

1) Plastic enclosed switches are delivered with switch type M10.

Switching programs

Description	Wiring diagram	Switching angle	Number of cells ↓ Size ↓ AC21	Type	Design see page 6-8 E. Z. V. SMA. P. G.	Switch pro- gram	Escutcheon plate
with double outfeed phases for use with manual motor starter		60°	4 48 □ 20A 32A 64 □ 32A 50A 88 □ 63A 80A 115A 132 □ 150A 250A	M10H . M20 . N20 . N33F . N40 . N60 . N80 . N100 . N200 .	x x x x x ¹⁾ - x x x x - - x - x - x x x - x - x - x - x - x - x - x - x - x - x - - - x - x - - - x - x - - -	.SDMO .SDMO .SDMO .SDMO .SDMO .SDMO .SDMO .SDMO .SDMO	
with auxiliary contacts for contactor control, without main contacts, automatic zero setting in event of mains break-down		90°	4 48 □ 20A 32A 64 □ 32A 50A 88 □ 63A 80A 115A 132 □ 150A 250A	M10H . M20 . N20 . N33F . N40 . N60 . N80 . N100 . N200 .	x x x x x ¹⁾ - x x x x - - x - x - x x x - x - x - x - x - x - x - x - x - x - x - - - x - x - - - x - x - - -	.SDJ1 .SDJ1 .SDJ1 .SDJ1 .SDJ1 .SDJ1 .SDJ1 .SDJ1 .SDJ1	
with auxiliary contacts for contactor control, without main contacts, automatic zero setting in event of mains break-down, spring return to		90°+30°	4 48 □ 20A 32A 64 □ 32A 50A 88 □ 63A 80A 115A 132 □ 150A 250A	M10H . M20 . N20 . N33F . N40 . N60 . N80 . N100 . N200 .	x x x x x ¹⁾ - x x x x - - x - x - x x x - x - x - x - x - x - x - x - x - x - x - - - x - x - - - x - x - - -	.SDJ2 .SDJ2 .SDJ2 .SDJ2 .SDJ2 .SDJ2 .SDJ2 .SDJ2 .SDJ2	
as type SDJ1 but for both rotary directions		60°	7 48 □ 20A 32A 64 □ 32A 50A 88 □ 63A 80A 115A 132 □ 150A 250A	M10H . M20 . N20 . N33F . N40 . N60 . N80 . N100 . N200 .	x x x - - - x x x - - - x - x - x x x - x - - - x - x - x - x - x - - - x - x - - - x - x - - - x - x - - -	.SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1 .SDRJ1	
with brake position (counter current braking) brake position is a momentary operation		45°+30°	5 48 □ 20A 32A 64 □ 32A 50A 88 □ 63A 80A 115A 132 □ 150A 250A	M10H . M20 . N20 . N33F . N40 . N60 . N80 . N100 . N200 .	x x x x x ¹⁾ - x x x x - - x - x - x x x - x - x - x - x - x - x - x - x - x - x - - - x - x - - - x - x - - -	.SDB .SDB .SDB .SDB .SDB .SDB .SDB .SDB .SDB	

Ordering example: AC21 250A panel mounting star-delta switch with brake position N200 E SDB

1) Plastic enclosed switches are delivered with switch type M10.